

Index for OTHER PROCUREMENT, ARMY - Activity 2

Blin	Nomenclature	SSN	Filename	Page Number
	P1 EXHIBIT			P1-1
28	COMBAT IDENTIFICATION PROGRAM	BA0510	51700103.00P	1
29	JCSE EQUIPMENT (USREDCOM)	BB5777	52930123.00P	7
30	DEFENSE SATELLITE COMMUNICATIONS SYSTEM (SPACE)	BB8500	52948148.00P	8
31	SHF TERM	BA9350	59810123.00P	39
32	SAT TERM, EMUT (SPACE)	K77200	59856123.00P	45
33	NAVSTAR GLOBAL POSITIONING SYSTEM (SPACE)	K47800	59894123.00P	50
34	GROUND COMMAND POST	BC4001	59909123.00P	55
35	SMART-T (SPACE)	BC4002	59910123.00P	56
36	SCAMP (SPACE)	BC4003	59911123.00P	62
37	GLOBAL BRDCST SVC - GBS	BC4120	59915123.00P	67
38	MOD OF IN-SVC EQUIP (TAC SAT)	BB8417	59920123.00P	73
39	ARMY GLOBAL CMD & CONTROL SYS (AGCCS)	BA8250	58148123.00P	74
40	ARMY DATA DISTRIBUTION SYSTEM (ADDS)	BU1400	56316123.00P	77
41	SINCGARS FAMILY	BW0006	57638123.00P	85
42	JOINT TACTICAL AREA COMMAND SYSTEMS	BA1010	58266123.00P	93
43	ACUS MOD PROGRAM (WIN T/T)	BB1600	58324123.00P	96
44	COMMS-ELEC EQUIP FIELDING	BA5210	58548112.00P	101
45	SOLDIER ENHANCEMENT PROGRAM COMM/ELECTRONICS	BA5300	58560131.00P	103
46	COMBAT SURVIVOR EVADER LOCATOR (CSEL)	B03200	58960123.00P	104
47	MEDICAL COMM FOR CBT CASUALTY CARE (MC4)	MA8046	59890118.00P	110
48	CI AUTOMATION ARCHITECTURE	BK5284	50250142.00P	113
49	TSEC - ARMY KEY MGT SYS (AKMS)	BA1201	50120123.00P	114
50	INFORMATION SYSTEM SECURITY PROGRAM - ISSP	TA0600	50122136.00P	117
51	TERRESTRIAL TRANSMISSION	BU1900	59400148.00P	127
52	BASE SUPPORT COMMUNICATIONS	BU4160	59716150.00P	134
53	ARMY DISN ROUTER	BU0300	59782148.00P	137
54	ELECTROMAG COMP PROG (EMCP)	BD3100	59786135.00P	140

Index for OTHER PROCUREMENT, ARMY - Activity 2

Blin	Nomenclature	SSN	Filename	Page Number
55	WW TECH CON IMP PROG (WWTCIP) (BU3610)	BU3610	59850148.00P	142
56	INFORMATION SYSTEMS	BB8650	59200148.00P	145
57	DEFENSE MESSAGE SYSTEM (DMS)	BU3770	59632118.00P	161
58	LOCAL AREA NETWORK (LAN)	BU4165	59704148.00P	164
59	PENTAGON INFORMATION MGT AND TELECOM	BQ0100	59846148.00P	168
60	FOREIGN COUNTERINTELLIGENCE PROG (FCI)	BK5282	59398142.00P	174
61	GENERAL DEFENSE INTELL PROG (GDIP)	BD3900	59816142.00P	175
63	ALL SOURCE ANALYSIS SYS (ASAS) (TIARA)	K28801	59340123.00P	176
64	JTT/CIBS-M (TIARA)	V29600	59522103.00P	179
65	IEW - GND BASE COMMON SENSORS (TIARA)	BZ7326	59544103.00P	185
66	TACTICAL UNMANNED AERIAL VEHICLE	BA0330	59558103.00P	190
67	JOINT STARS (ARMY) (TIARA)	BA1080	59574103.00P	195
68	INTEGRATED BROADCAST TERMINAL MODS (TIARA)	BA1081	59590103.00P	201
69	DIGITAL TOPOGRAPHIC SPT SYS (DTSS) (TIARA)	KA2550	59607123.00P	205
71	TACTICAL EXPLOITATION OF NATIONAL CAPABILITIE	BZ7315	59678102.00P	209
72	COMMON IMAGERY GROUND/SURFACE SYSTEM (CIGSS) (BZ7316)	BZ7316	59690102.00P	213
73	JOINT TACTICAL GROUND STATION MODS	BZ8420	59695121.00P	216
74	TROJAN (TIARA)	BA0326	59704104.00P	217
75	MOD OF IN-SVC EQUIP (INTEL SPT) (TIARA)	BZ9750	59912103.00P	225
76	CI HUMINT AUTOMATED TOOL SET (CHATS) (TIARA)	BK5275	59925123.00P	233
77	ITEMS LESS THAN \$5.0M (TIARA)	BK5278	59990106.00P	234
78	SHORTSTOP	VA8000	58490148.00P	235
79	COUNTERINTELLIGENCE/SECURITY COUNTERMEASURES	BL5283	59996142.00P	240
80	SENTINEL (FAAD GBS)	WK5053	50121103.00P	241
81	SENTINEL MODS	WK5057	50125103.00P	249
82	TARGET LOCATION OBSERVATION SYSTEM (TLOS)	K38400	50130103.00P	257
83	NIGHT VISION DEVICES	KA3500	50140103.00P	259
84	LONG RANGE ADVANCED SCOUT SURVEILLANCE SYSTEM	K38300	50142103.00P	282

Index for OTHER PROCUREMENT, ARMY - Activity 2

Blin	Nomenclature	SSN	Filename	Page Number
85	LTWT VIDEO RECON SYSTEM (LWVRS)	K30800	50151103.00P	287
86	NIGHT VISION, THERMAL WPN SIGHT	K22900	50152103.00P	293
87	COMBAT IDENTIFICATION/AIMING LIGHT (CIDDS)	BA0515	50156103.00P	299
88	ARTILLERY ACCURACY EQUIP	AD3200	50178100.00P	305
89	PORTABLE INDUCTIVE ARTILLERY FUZE SETTER (PIAFS)	AD3260	50187114.00P	319
90	MOD OF IN-SVC EQUIP (TAC SURV)	BZ7325	50224148.00P	323
91	DIGITIZATION APPLIQUE	W61900	50240123.00P	331
92	LIGHTWEIGHT LASER DESIGNATOR / RANGEFINDER (LLDR)	K31100	50250103.00P	336
93	COMPUTER BALLISTICS: MORTAR M-30	K99200	55726119.00P	341
94	MORTAR FIRE CONTROL SYSTEM	K99300	57500119.00P	342
95	INTEGRATED MET SYS SENSORS (IMETS) - TIARA	BW0021	58690123.00P	347
96	TACTICAL OPERATIONS CENTERS	BZ9865	59040123.00P	350
97	ADV FIELD ARTILLERY TACT DATA SYS (AFATDS)	B28600	59050123.00P	353
98	FIRE SUPPORT ADA CONVERSION	B78400	59100123.00P	356
99	CMBT SVC SUPT CONTROL SYS (CSSCS)	W34600	59142123.00P	357
100	FAAD C2	AD5050	59262123.00P	360
101	FAADC2I MODIFICATIONS	AD5090	59264123.00P	363
102	AIR & MSL DEFENSE PLANNING & CTRL SYS (AMC PCS)	AD5070	59266123.00P	367
103	FORWARD ENTRY DEVICE (FED)	BZ9851	59322123.00P	370
104	STRIKER-COMMAND AND CONTROL SYSTEM	B78500	59330141.00P	373
105	LIFE CYCLE SOFTWARE SUPPORT (LCSS)	BD3955	59442126.00P	378
106	LOGTECH	BZ8889	59502118.00P	381
107	TC AIMS II	BZ8900	59510118.00P	384
108	GUN LAYING AND POS SYS (GLPS)	A30000	59572100.00P	387
109	ISYSCON EQUIPMENT	BX0007	59672123.00P	393
110	MANEUVER CONTROL SYSTEM (MCS)	BA9320	59742123.00P	399
111	STAMIS TACTICAL COMPUTERS (STACOMP)	W00800	59922118.00P	402
112	STANDARD INTEGRATED CMD POST SYSTEM	BZ9962	59962123.00P	406

Index for OTHER PROCUREMENT, ARMY - Activity 2

Blin	Nomenclature	SSN	Filename	Page Number
113	ARMY TRAINING XX1 MODERNIZATION	BE4169	53001118.00P	413
114	AUTOMATED DATA PROCESSING EQUIP	BD3000	53002150.00P	418
115	RESERVE COMPONENT AUTOMATION SYS (RCAS)	BE4167	59956108.00P	470
116	AFRTS	BZ8480	59762150.00P	473
117	ITEMS LESS THAN \$5.0M (A/V)	BK5289	59988150.00P	476
118	PRODUCTION BASE SUPPORT (C-E)	BF5400	52716144.00P	479

DEPARTMENT OF THE ARMY
FY 00/01 PROCUREMENT PROGRAM

EXHIBIT P-1
February 1999

Appropriation: ****OTHER PROCUREMENT, ARMY****

Activity: **2. **COMMUNICATIONS AND ELECTRONICS****

LINE NO.	ITEM NOMENCLATURE	ID	(DOLS) FY 00 UNIT COST	(THOUSANDS OF DOLLARS)								
				FY 98		FY 99		FY 00		FY 01		
				QTY	COST	QTY	COST	QTY	COST	QTY	COST	
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	
	COMM - JOINT COMMUNICATIONS											
28	COMBAT IDENTIFICATION PROGRAM (BA0510)						4,876		7,568			10,954
29	JCSE EQUIPMENT (USREDCOM) (BB5777)				3,701		3,139		5,119			4,593
	SUB-ACTIVITY TOTAL				3,701		8,015		12,687			15,547
	COMM - SATELLITE COMMUNICATIONS											
30	DEFENSE SATELLITE COMMUNICATIONS SYSTEM (SPACE) (BB8500)				82,428		94,201		68,489			70,799
31	SHF TERM (BA9350)		1,996,875		15,281		25,259	16	31,950	38		62,183
32	SAT TERM, EMUT (SPACE) (K77200)				7,038		2,447		1,547			
33	NAVSTAR GLOBAL POSITIONING SYSTEM (SPACE) (K47800)	B			5,261		6,527		6,557			31,502
34	GROUND COMMAND POST (BC4001)				563							
35	SMART-T (SPACE) (BC4002)				20,728		57,370		61,761			46,834
36	SCAMP (SPACE) (BC4003)				13,712		4,696		5,033			4,292
37	GLOBAL BRDCST SVC - GBS (BC4120)		273,000		7,284		5,856	40	10,920	14		9,352
38	MOD OF IN-SVC EQUIP (TAC SAT) (BB8417)				2,398		1,470		500			
	SUB-ACTIVITY TOTAL				154,693		197,826		186,757			224,962

DEPARTMENT OF THE ARMY
FY 00/01 PROCUREMENT PROGRAM

EXHIBIT P-1
February 1999

Appropriation: ****OTHER PROCUREMENT, ARMY****

Activity: **2. **COMMUNICATIONS AND ELECTRONICS****

LINE NO.	ITEM NOMENCLATURE	ID	(DOLS) FY 00 UNIT COST	(THOUSANDS OF DOLLARS)								
				FY 98		FY 99		FY 00		FY 01		
				QTY	COST	QTY	COST	QTY	COST	QTY	COST	
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	
	COMM - C3 SYSTEM											
39	ARMY GLOBAL CMD & CONTROL SYS (AGCCS) (BA8250)	A			15,079		20,505		12,963		8,526	
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	SUB-ACTIVITY TOTAL				15,079		20,505		12,963		8,526	
	COMM - COMBAT COMMUNICATIONS											
40	ARMY DATA DISTRIBUTION SYSTEM (DATA RADIO) (BU1400)	B			64,910		46,919		38,763		38,310	
41	SINGGARS FAMILY (BW0006)	A		32,847	276,460	5,000	57,054		13,205		3,034	
42	JOINT TACTICAL AREA COMMAND SYSTEMS (BA1010)	A			10,292		9,898		980		979	
43	ACUS MOD PROGRAM (WIN-T/T) (BB1600)	A			98,059		128,989		109,056		132,664	
44	COMMS-ELEC EQUIP FIELDING (BA5210)				3,665		2,160		4,151		4,872	
45	SOLDIER ENHANCEMENT PROGRAM COMM/ELECTRONICS (BA5300)				966		4,580		3,326		4,405	
46	COMBAT SURVIVOR EVADER LOCATOR (CSEL) (B03200)	B			1,059		13,675					
47	MEDICAL COMM FOR CBT CASUALTY CARE (MC4) (MA8046)						9,414		20,600		15,005	
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	SUB-ACTIVITY TOTAL				455,411		272,689		190,081		199,269	

DEPARTMENT OF THE ARMY
FY 00/01 PROCUREMENT PROGRAM

EXHIBIT P-1
February 1999

Appropriation: ****OTHER PROCUREMENT, ARMY****

Activity: **2. **COMMUNICATIONS AND ELECTRONICS****

LINE NO.	ITEM NOMENCLATURE	ID	(DOLS) FY 00 UNIT COST	(THOUSANDS OF DOLLARS)								
				FY 98		FY 99		FY 00		FY 01		
				QTY	COST	QTY	COST	QTY	COST	QTY	COST	
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	
	COMM - INTELLIGENCE COMM											
48	CI AUTOMATION ARCHITECTURE (BK5284)	A			2,213		2,313		1,585		1,757	
	SUB-ACTIVITY TOTAL				2,213		2,313		1,585		1,757	
	COMM - INFORMATION SECURITY											
49	TSEC - ARMY KEY MGT SYS (AKMS) (BA1201)				4,542		10,315		11,038		12,131	
50	INFORMATION SYSTEM SECURITY PROGRAM - ISSP (TA0600)	A			21,440		33,621		28,750		29,766	
	SUB-ACTIVITY TOTAL				25,982		43,936		39,788		41,897	
	COMM - LONG HAUL COMMUNICATIONS											
51	TERRESTRIAL TRANSMISSION (BU1900)				19,810		1,947		2,029		2,040	
52	BASE SUPPORT COMMUNICATIONS (BU4160)				2,738		1,121		1,836		1,856	
53	ARMY DISN ROUTER (BU0300)				2,881		3,604		3,700		4,370	
54	ELECTROMAG COMP PROG (EMCP) (BD3100)				317		451		440		434	
55	WW TECH CON IMP PROG (WWTCIP) (BU3610)				909		2,025		2,891		2,886	
	SUB-ACTIVITY TOTAL				26,655		9,148		10,896		11,586	

DEPARTMENT OF THE ARMY
FY 00/01 PROCUREMENT PROGRAM

EXHIBIT P-1
February 1999

Appropriation: ****OTHER PROCUREMENT, ARMY****

Activity: **2. **COMMUNICATIONS AND ELECTRONICS****

LINE NO.	ITEM NOMENCLATURE	ID	(DOLS) FY 00 UNIT COST	(THOUSANDS OF DOLLARS)								
				FY 98		FY 99		FY 00		FY 01		
				QTY	COST	QTY	COST	QTY	COST	QTY	COST	
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	
	COMM - BASE COMMUNICATIONS											
56	INFORMATION SYSTEMS (BB8650)				60,245		84,280		56,915			58,196
57	DEFENSE MESSAGE SYSTEM (DMS) (BU3770)				8,769		16,677		18,454			11,831
58	LOCAL AREA NETWORK (LAN) (BU4165)				10,355		9,951		100,018			90,000
59	PENTAGON INFORMATION MGT AND TELECOM (BQ0100)				24,710		39,088		17,256			68,002
	SUB-ACTIVITY TOTAL				104,079		149,996		192,643			228,029
	ELECT EQUIP - NAT FOR INT PROG (NFIP)											
60	FOREIGN COUNTERINTELLIGENCE PROG (FCI) (BK5282)				3,754		874		1,846			869
61	GENERAL DEFENSE INTELL PROG (GDIP) (BD3900)				20,446		21,504		18,345			21,675
62	ITEMS LESS THAN \$5.0M (INTEL SPT) - TIARA (BL5278)				2,696							
	SUB-ACTIVITY TOTAL				26,896		22,378		20,191			22,544
	ELECT EQUIP - TACT INT REL ACT (TIARA)											
63	ALL SOURCE ANALYSIS SYS (ASAS) (TIARA) (KA4400)	B			22,597		30,782		56,514			70,628

DEPARTMENT OF THE ARMY
FY 00/01 PROCUREMENT PROGRAM

EXHIBIT P-1
February 1999

Appropriation: ****OTHER PROCUREMENT, ARMY****

Activity: **2. **COMMUNICATIONS AND ELECTRONICS****

LINE NO.	ITEM NOMENCLATURE	ID	(DOLS) FY 00 UNIT COST	(THOUSANDS OF DOLLARS)							
				FY 98		FY 99		FY 00		FY 01	
				QTY	COST	QTY	COST	QTY	COST	QTY	COST
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)
64	JTT/CIBS-M (TIARA) (V29600)	B	156,529	54	13,808	30	10,312	155	24,262	173	26,946
65	IEW - GND BASE COMMON SENSORS (TIARA) (BZ7326)						12,039				
66	TACTICAL UNMANNED AERIAL VEHICLE (TUAV) (BA0330)	A							45,863		61,062
67	JOINT STARS (ARMY) (TIARA) (BA1080)	B	6,848,000	20	89,276	18	86,895	12	82,176	10	57,773
68	INTEGRATED BROADCAST TERMINAL MODS (TIARA) (BA1081)				373		6,469				
69	DIGITAL TOPOGRAPHIC SPT SYS (DTSS) (TIARA) (KA2550)	B	680,556	4	7,191	10	21,172	36	24,500	12	20,170
70	DRUG INTERDICTION PROGRAM (DIP) (TIARA) (BU4050)				2,636						
71	TACTICAL EXPLOITATION OF NATIONAL CAPABILITIE (BZ7315)				1,618		6,073		4,370		12,946
72	COMMON IMAGERY GROUND/SURFACE (CIGSS) (BZ7316)						2,501		2,791		2,853
73	JOINT TACTICAL GROUND STATION MODS (BZ8420)				99		2,630				
74	TROJAN (TIARA) (BA0326)	B			3,687		3,980		4,268		4,382
75	MOD OF IN-SVC EQUIP (INTEL SPT) (TIARA) (BZ9750)				1,615		4,877		9,090		2,771
76	CI HUMINT AUTOMATED TOOL SET (CHATS) (TIARA) (BK5275)						3,690		3,137		378
77	ITEMS LESS THAN \$5.0M (TIARA) (BK5278)				506		1,526		530		546
	SUB-ACTIVITY TOTAL				143,406		192,946		257,501		260,455

DEPARTMENT OF THE ARMY
FY 00/01 PROCUREMENT PROGRAM

EXHIBIT P-1
February 1999

Appropriation: ****OTHER PROCUREMENT, ARMY****

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LINE NO.	ITEM NOMENCLATURE	ID	(DOLS) FY 00 UNIT COST	(THOUSANDS OF DOLLARS)								
				FY 98		FY 99		FY 00		FY 01		
				QTY	COST	QTY	COST	QTY	COST	QTY	COST	
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	
	ELECT EQUIP - ELECTRONIC WARFARE (EW)											
78	SHORTSTOP (VA8000)				5,780		9,973					
79	COUNTERINTELLIGENCE/SECURITY COUNTERMEASURES (BL5283)				2,239		1,720		1,691			2,327
	SUB-ACTIVITY TOTAL				8,019		11,693		1,691			2,327
	ELECT EQUIP - TACTICAL SURV. (TAC SURV)											
80	FAAD GBS (WK5053)		3,489,000	27	58,858	24	57,877	11	38,379	3		24,362
81	SENTINEL MODS (WK5057)											7,112
82	TARGET LOCATION OBSERVATION SYSTEM (TLOS) (K38400)	B			5,844		11,755					
83	NIGHT VISION DEVICES (KA3500)	A	2,220	13,305	58,753	12,194	43,516	9,448	20,977	7,545		28,910
84	LONG RANGE ADVANCE SCOUT SURVEILLANCE SYSTEM (K38300)		654,894					66	43,223	89		47,988
85	LTWT VIDEO RECON SYSTEM (LWVRS) (K30800)	A	23,697	101	4,757	320	8,341	145	3,436	44		1,207
86	NIGHT VISION, THERMAL WPN SIGHT (K22900)	B	10,781	3,752	40,774	3,044	36,011	3,330	35,901	1,818		35,603
87	COMBAT IDENTIFICATION / AIMING LIGHT (BA0515)		34,495					275	9,486	5,285		11,098
88	ARTILLERY ACCURACY EQUIP (AD3200)				4,381		10,974		4,283			14,508

DEPARTMENT OF THE ARMY
FY 00/01 PROCUREMENT PROGRAM

EXHIBIT P-1
February 1999

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LINE NO.	ITEM NOMENCLATURE	ID	(DOLS) FY 00 UNIT COST	(THOUSANDS OF DOLLARS)								
				FY 98		FY 99		FY 00		FY 01		
				QTY	COST	QTY	COST	QTY	COST	QTY	COST	
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	
89	PORTABLE INDUCTIVE ARTILLERY FUZE SETTER (PIAFS) (AD3260)		1,185					3,492	4,137			
90	MOD OF IN-SVC EQUIP (TAC SURV) (BZ7325)				1,108		16,257		6,533			8,864
91	DIGITIZATION APPLIQUE (W61900)	B							66,423			62,140
92	LIGHTWEIGHT LASER DESIGNATOR / RANGEFINDER (LLDR) (K31100)	B	447,286					14	6,262	33		7,145
93	COMPUTER BALLISTICS; MORTAR M-30 (K99200)	A							2,852			1,664
94	MORTAR FIRE CONTROL SYSTEM (K99300)		249,333					15	3,740	37		12,494
95	INTEGRATED MET SYS SENSORS (IMETS) - TIARA (BW0021)				1,329		4,876		5,469			7,069
	SUB-ACTIVITY TOTAL				175,804		189,607		251,101			270,164
	ELECT EQUIP - TACTICAL C2 SYSTEMS											
96	TACTICAL OPERATIONS CENTERS (BZ9865)						26,630		28,098			26,984
97	ADV FIELD ARTILLERY TACT DATA SYS (AFATDS) (B28600)	B	95,050	245	34,954	260	36,141	456	43,343	468		48,750
98	FIRE SUPPORT ADA CONVERSION (B78400)	A			2,935				980			979
99	CMBT SVC SUPT CONTROL SYS (CSSCS) (W34600)		73,785	56	6,648	105	9,306	270	19,922	320		18,090
100	FAAD C2 (AD5050)	A	5,297,000	1	12,592	2	13,556	2	10,594	2		12,537
101	FAADC2I MODIFICATIONS (AD5090)								5,880			3,916

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LINE NO.	ITEM NOMENCLATURE	ID	(DOLS) FY 00 UNIT COST	(THOUSANDS OF DOLLARS)							
				FY 98		FY 99		FY 00		FY 01	
				QTY	COST	QTY	COST	QTY	COST	QTY	COST
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)
102	AIR & MSL DEFENSE PLANNING & CONTROL SYS (AD5070)		2,939,000					1	2,939	1	4,894
103	FORWARD ENTRY DEVICE (FED) (BZ9851)	B			2,295		24,971		15,822		15,857
104	STRIKER-COMMAND AND CONTROL SYSTEM (B78500)		410,233			10	6,009	30	12,307	35	14,214
105	LIFE CYCLE SOFTWARE SUPPORT (LCSS) (BD3955)				1,896		1,171		863		1,017
106	LOGTECH (BZ8889)	B			12,868		8,215		4,190		4,139
107	TC AIMS II (BZ8900)				1,826		444		1,739		1,440
108	GUN LAYING AND POS SYS (GLPS) (A30000)		92,160	64	5,780	61	6,313	81	7,465	92	8,471
109	ISYSCON EQUIPMENT (BX0007)				14,740		15,133		14,714		17,149
110	MANEUVER CONTROL SYSTEM (MCS) (BA9320)	A					12,998		52,049		50,729
111	STAMIS TACTICAL COMPUTERS (STACOMP) (W00800)	A			30,904		48,115		33,711		38,689
112	STANDARD INTEGRATED CMD POST SYSTEM (BZ9962)				32,558		26,697		30,700		34,796
	SUB-ACTIVITY TOTAL						159,996		235,699		302,651
	ELECT EQUIP - AUTOMATION										
113	ARMY TRAINING XXI MODERNIZATION (BE4169) (BE4169)				20,361		32,545		15,361		38,357

DEPARTMENT OF THE ARMY
 FY 00/01 PROCUREMENT PROGRAM

EXHIBIT P-1
 February 1999

Appropriation: ****OTHER PROCUREMENT, ARMY****

Activity: **2. **COMMUNICATIONS AND ELECTRONICS****

LINE NO.	ITEM NOMENCLATURE	ID	(DOLS) FY 00 UNIT COST	(THOUSANDS OF DOLLARS)							
				FY 98		FY 99		FY 00		FY 01	
				QTY	COST	QTY	COST	QTY	COST	QTY	COST
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)
114	AUTOMATED DATA PROCESSING EQUIP (BD3000)				139,235		123,370		138,607		191,580
115	RESERVE COMPONENT AUTOMATION SYS (RCAS) (BE4167)				112,784		107,894		83,040		92,154
	SUB-ACTIVITY TOTAL				272,380		263,809		237,008		322,091
	ELECT EQUIP - AUDIO VISUAL SYSTEMS (A/V)										
116	AFRTS (BZ8480)				442		486		490		489
117	ITEMS LESS THAN \$5.0M (A/V) (BK5289)				2,527		4,584		2,689		3,240
	SUB-ACTIVITY TOTAL				2,969		5,070		3,179		3,729
	ELECT EQUIP - SUPPORT										
118	PRODUCTION BASE SUPPORT (C-E) (BF5400)				368		402		378		377
	SUB-ACTIVITY TOTAL				368		402		378		377
	ACTIVITY TOTAL				1,577,651		1,626,032		1,703,765		1,915,911

Exhibit P-40, Budget Item Justification Sheet

Date: February 1999

Appropriation / Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment
 P-1 Item Nomenclature: COMBAT IDENTIFICATION PROGRAM (BA0510)

Program Elements for Code B Items: Code: Other Related Program Elements:

	Prior Years	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	To Complete	Total Prog
Proc Qty				10	35	274	33	32			Cont	Cont
Gross Cost	0.0	0.0		4.9	7.6	11.0	10.6	8.2			Cont	Cont
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	0.0	0.0	0.0	4.9	7.6	11.0	10.6	8.2	0.0	0.0		Cont
Initial Spares					0.5	0.9	0.8	0.6				Cont
Total Proc Cost	0.0	0.0	0.0	4.9	8.1	11.9	11.4	8.8	0.0	0.0		Cont
Flyaway U/C				0.477	0.021	0.011	0.009	0.017				
Wpn Sys Proc U/C				0.487	0.023	0.013	0.011	0.019				

NARRATIVE: The Battlefield Combat Identification System (BCIS) is an all weather, day/night, millimeter wave, Low Probability of Intercept/Low Probability of Detection (LPI/LPD), digitally encrypted question and answer system that provides positive identification of friendly platforms out to 5.5 km (clear weather). BCIS was developed to minimize fratricide while maximizing combat effectiveness given rapidly changing and intense tactical situations. BCIS provides positive identification of friendly platforms to aid the gunner or commander to make a rapid shoot/don't shoot decision at the point of engagement. BCIS also provides short range (out to 1 km, in clear weather), LPI/LPD situational awareness messages at the platoon level. Any situational awareness data received by BCIS will be sent through the platform Applique for integration with other position sources to form the full situational awareness database. BCIS has been designated as a Army Horizontal Technology Integration (HTI) program and coordinates A-kit integration with host platforms.

JUSTIFICATION: The BCIS is an integral part of the Army's initiative to digitize the battlefield. Performance results from the Army TF XXI Advanced Warfighting Experiment (AWE) indicate that situational awareness (SA) in its current form is insufficient to prevent fratricide by itself, therefore, a target identification (TI) capability (BCIS) is required. FY00/01 quantities include interrogator/transponder and transponder only variants based on user defined requirements along with the requisite integration kits. FY00/01 quantities initiate fielding to priority units of the Army's 4th ID at Ft. Hood TX and support First Unit Equipped (FUE) in FY01.

Exhibit P-5, Weapon OPA Cost Analysis		Appropriation/ Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment			P-1 Line Item Nomenclature: COMBAT IDENTIFICATION PROGRAM (BA0510)			Weapon System Type:			Date: February 1999			
OPA Cost Elements		ID	FY 98			FY 99			FY 00			FY 01		
		CD	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
			\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000
1. Initial Production Facilities						1537			2085			530		
2. BCIS						2854	10	285	2891	35	83	8197	274	30
3. Project Management Admin						391			617			895		
4. System Test and Evaluation									1700			354		
5. Support														
Technical Data						14			21			90		
Support Equipment									109					
ECOs												385		
6. Fielding						80			145			503		
Total System Cost						4876			7568			10954		

Exhibit P-5a, Budget Procurement History and Planning

Date:
February 1999

Appropriation / Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment		Weapon System Type:			P-1 Line Item Nomenclature: COMBAT IDENTIFICATION PROGRAM (BA0510)					
WBS Cost Elements: Fiscal Years	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY Each	Unit Cost \$000	Specs Avail Now?	Date Revsn Avail	RFP Issue Date
BCIS	TRW, Redondo Beach, CA	SS/CPFF	CECOM, Ft. Monmouth, NJ	May-99	May-00	10	285	Yes	NA	Sep-98
BCIS	TRW, Redondo Beach, CA	S/FPM1-4	CECOM, Ft. Monmouth, NJ	Oct-99	Sep-00	35	83			May-99
BCIS	TRW, Redondo Beach, CA	S/FPM2-4	CECOM, Ft. Monmouth, NJ	Oct-00	Sep-01	274	30			
BCIS/M1A1	TRW, Redondo Beach, CA	S/FPM1-4	CECOM, Ft. Monmouth, NJ	Oct-99	Sep-00	45	83			May-99
BCIS/M2A2	TRW, Redondo Beach, CA	S/FPM2-4	CECOM, Ft. Monmouth, NJ	Oct-00	Sep-01	119	30			

REMA M1A2 and M2A2 quantities are funded in accordance with an HTI policy under SSN GA0700, M1 Abrams Tank Mod and SSN G80717 Bradley Base Sustainment.

Host platform integration kits (A-kits) developed in coordination with host PM and prime contractor with RDT&E appropriation two years prior to scheduled fielding (kits developed with FY 99 RDT&E are produced with FY00 OPA2 and fielded in FY01).

FY 00 / 01 BUDGET PRODUCTION SCHEDULE	P-1 Item Nomenclature: COMBAT IDENTIFICATION PROGRAM (BA0510)	Date: February 1999
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COST ELEMENTS	MFR	FY	SERV	PROC QTY Each	ACCEP. PRIOR TO 1 OCT	BAL DUE AS OF 1 OCT	Fiscal Year 00												Fiscal Year 01												LATER
							Calendar Year 00						Calendar Year 01						Calendar Year 01												
							OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	
BCIS	1	99	A	10		10							10																		
	1	00	A	35		35	A								5	10	10	10													
	1	01	A	274		274										A									25	249					
BCIS (OTHER ARMY REQ)	1	00	A	45		45	A								5	10	10	10	10												
	1	01	A	119		119										A									10	109					

MFR	NAME / LOCATION	PRODUCTION RATES			REACHED D +	MFR Number	ADMIN LEAD TIME		MFR After 1 Oct.	TOTAL After 1 Oct.	REMARKS		
		MIN.	1-8-5	MAX.			Prior 1 Oct.	After 1 Oct.					
1	TRW, Redondo Beach, CA	30	100	250		1	INITIAL	99	1	7	12	19	
							REORDER						
						1	INITIAL	00	5	0	11	11	
							REORDER						
						1	INITIAL	01	1	0	11	11	
							REORDER						
							INITIAL						
							REORDER						
							INITIAL						
							REORDER						

FY 00 / 01 BUDGET PRODUCTION SCHEDULE	P-1 Item Nomenclature: COMBAT IDENTIFICATION PROGRAM (BA0510)	Date: February 1999
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COST ELEMENTS	MFR	FY	SERV	PROC QTY Each	ACCEP. PRIOR TO 1 OCT	BAL DUE AS OF 1 OCT	Fiscal Year 02												Fiscal Year 03												LATER
							Calendar Year 02						Calendar Year 03						Calendar Year 03												
							OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	
BCIS	1	99	A	10	10																										
	1	00	A	35	35																										
	1	01	A	274	25	249	30	30	30	30	30	30	30	30	9																
BCIS (OTHER ARMY REQ)	1	00		45	45																										
	1	01	A	119	10	109	10	10	10	10	10	10	10	10	29																

OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
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MFR	NAME / LOCATION	PRODUCTION RATES			REACHED D +	MFR Number	ADMIN LEAD TIME		MFR After 1 Oct.	TOTAL After 1 Oct.	REMARKS		
		MIN.	1-8-5	MAX.			Prior 1 Oct.	After 1 Oct.					
1	TRW, Redondo Beach, CA	30	100	250		1	INITIAL	99	1	7	12	19	
							REORDER						
							INITIAL	00	5	0	11	11	
							REORDER						
							INITIAL	01	1	0	11	11	
							REORDER						
							INITIAL						
							REORDER						
							INITIAL						
							REORDER						

Exhibit P-40, Budget Item Justification Sheet

Date: February 1999

Appropriation / Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment
 P-1 Item Nomenclature: JCSE EQUIPMENT (USREDCOM) (BB5777)

Program Elements for Code B Items: Code: Other Related Program Elements:

	Prior Years	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	To Complete	Total Prog
Proc Qty												
Gross Cost	56.2	2.8	3.7	3.1	5.1	4.6	5.6	5.8	5.5	5.8	0.0	98.2
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	56.2	2.8	3.7	3.1	5.1	4.6	5.6	5.8	5.5	5.8	0.0	98.2
Initial Spares												
Total Proc Cost	56.2	2.8	3.7	3.1	5.1	4.6	5.6	5.8	5.5	5.8	0.0	98.2
Flyaway U/C												
Wpn Sys Proc U/C												

DESCRIPTION:
 Provides Joint Staff directed Army share of funds to equip the Joint Communications Support Element (JCSE). The JCSE is a unique, completely mobile multi-service communications unit which provides support to the Unified and Specified Commands at the direction of the Joint Staff. The JCSE has the capability to deploy to any location and provide simultaneous communications support to two Joint Task Force (JTF) Headquarters and two Joint Special Operations Task Force (JSOTF) Headquarters involved in worldwide contingency operations or disaster relief/evacuation activities. JCSE also augments or provides contingency emergency communications support to meet the critical operational needs of the Joint Staff, the Services, defense and/or civil agencies, etc. and on a non-interference basis, provides communications support for joint readiness exercises. Equipment to be procured includes wideband microwave radio systems, packet switching nodes, line termination modules for Echelons Above Corps switches, Demand Assigned Multiple Access satellited radios, MILSTAR radios, asynchronous Transfer Mode (ATM) switching nodes and upgrades to existing systems.

JUSTIFICATION:
 Equipment requirements are approved by the JCS and assigned to the respective services for procurement through the Executive Acquisition Agent (ARMY).

Exhibit P-40, Budget Item Justification Sheet

Date: February 1999

Appropriation / Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment
 P-1 Item Nomenclature: DEFENSE SATELLITE COMMUNICATIONS SYSTEM (BB8500)

Program Elements for Code B Items: Code: Other Related Program Elements:

	Prior Years	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	To Complete	Total Prog
Proc Qty												
Gross Cost	1996.3	92.7	82.4	94.2	68.5	70.8	56.7	55.7	78.8	74.0		2670.1
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	1996.3	92.7	82.4	94.2	68.5	70.8	56.7	55.7	78.8	74.0		2670.1
Initial Spares												
Total Proc Cost	1996.3	92.7	82.4	94.2	68.5	70.8	56.7	55.7	78.8	74.0		2670.1
Flyaway U/C												
Wpn Sys Proc U/C												

DESCRIPTION: The Defense Satellite Communications System (DSCS) provides super high frequency (SHF) wideband and anti-jam (AJ) satellite communications supporting critical national strategic and tactical C3I requirements. It must be survivable during trans- and post- nuclear attack to support communications essential to national survival. The DSCS supports the Army warfighter as well as the unique and vital Department of Defense (DOD) and non-DOD users, as approved by the Joint Staff and/or Secretary of Defense (SECDEF). The DSCS is used in conjunction with the Terrestrial Transmissions of the Defense Information System Network (DISN) and other communications systems to provide end-to-end communications. The DSCS provides long-haul service between the Continental United States (CONUS) and overseas locations.

JUSTIFICATION: Funds are required to support various requirements of the National Command Authorities (NCA), Commanders in Chief (CINCs), White House Communications Agency (WHCA), Navy C2, NATO, UK, and Diplomatic Telecommunications Service (DTS) as directed by the Office of the Joint Chiefs of Staff (OJCS).

FY00/01 JRSC funds will provide for the continued acquisition and fielding of the Universal Modem System (UMS). FY00/01 Mod of In-Service equipment funds provide for procuring the AN/GSC-52 installation kits and retrofitting other DSCS terminals. FY00/01 DSCS Operations Control System (DOCS) funds complete the procurement of the Replacement BATSON, Replacement DSCS FDMA Control Subsystem (RDFCS), as well as the DSCS Spectrum Management System (DSMS) and DOCS Training System (DTS) programs and continues procurement of Operational Databases. FY00/01 Digital Equipment funds will provide for continued fabrication of racks and components and their integration into DSCS. FY00/01 Interconnect Facility (ICF) funds will continue to accomplish DISA and JCS directed satellite ground terminal relocations supporting realignment of U.S. forces worldwide. In addition, FY01 funds will annualize engineering, matrix, and fielding support for current and prior year DSCS procurements.

Exhibit P-5, Weapon OPA Cost Analysis		Appropriation/ Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment			P-1 Line Item Nomenclature: DEFENSE SATELLITE COMMUNICATIONS SYSTEM (BB8500)			Weapon System Type:			Date: February 1999			
OPA Cost Elements		ID	FY 98			FY 99			FY 00			FY 01		
		CD	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
			\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000
DSCS - DIGITAL EQUIPMENT (SPACE)			12644			11237			10431			10321		
DSCS - INTERCONNECT FACILITY (SPACE)			3930			10539			10111			10057		
DSCS - JAM RESISTANT SECURE COMM (JRSC)			18113			13967			14137			8994		
DSCS - OPERATIONS CONTROL SYS			15693			26848			16804			15391		
DSCS - MOD OF IN-SVC EQUIP (SPACE)			32048			31610			17006			26036		
TOTAL			82428			94201			68489			70799		

Exhibit P-40, Budget Item Justification Sheet

Date: February 1999

Appropriation / Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment
 P-1 Item Nomenclature: DSCS - DIGITAL EQUIPMENT (SPACE) (BB8501)

Program Elements for Code B Items: Code: Other Related Program Elements:

	Prior Years	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	To Complete	Total Prog
Proc Qty												
Gross Cost	368.1	17.1	12.6	11.2	10.4	10.3	7.4	7.6	16.8	9.8		471.3
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	368.1	17.1	12.6	11.2	10.4	10.3	7.4	7.6	16.8	9.8		471.3
Initial Spares												
Total Proc Cost	368.1	17.1	12.6	11.2	10.4	10.3	7.4	7.6	16.8	9.8		471.3
Flyaway U/C												
Wpn Sys Proc U/C												

DESCRIPTION: The Defense Satellite Communications System (DSCS) is a subset of the entire Defense Communications System (DCS). The Army DSCS provides research, development, and procurement of the ground segment portion of all strategic satellite communications systems. This equipment accepts voice frequency and digital data from other terrestrial ground systems, i.e., telephone, telephone switching centers, Defense Data Network (DDN), Defense Switched Network (DSN), Secure Voice Communications and microwave; and converts the aggregate user signals into a digital signal which is then transmitted to its recipients utilizing DSCS satellites that are in geostationary earth orbits for worldwide coverage. This long haul strategic military communications system utilizes equipment that makes maximum use of multiplexing, modulation, and coding techniques in order to maximize satellite utilization. This equipment is integrated into the Digital Communications Satellite Subsystem (DCSS) which is a system of electronic racks integrated into a vanized or fixed configuration. Each system is tailored to the individual user earth terminal requirements.

JUSTIFICATION: The DSCS Program must be sustained through the year 2010 to support projected future operational needs of the Warfighter. A sustainment program has been established for the DCSS to increase supportability and efficiency while decreasing space, power, and personnel requirements. FY00/01 funds will provide for fabrication of racks and components and their integration into the DSCS. Primary emphasis is the fabrication of racks in support of Jam Resistant Secure Communications (JRSC), and global Tri-Service Frequency Division Multiple Access (FDMA) earth terminal communications requirements scheduled for installation during this period. These JRSC racks and FDMA racks provide the maximum efficiency in long-range communications by integrating all digital communications network control, and anti-jam secure communications in one system. The DCSS also provides for the fabrication of racks and equipment to field the Strategic/Tactical Gateways, the primary means of interoperable communications providing tactical warfighters

Exhibit P-40C Budget Item Justification Sheet

Date

February 1999

Appropriation / Budget Activity/Serial No.

OTHER PROCUREMENT / 2 / Communications and Electronics Equipment

P-1 Item Nomenclature

DSCS - DIGITAL EQUIPMENT (SPACE) (BB8501)

Program Elements for Code B Items

Code

Other Related Program Elements

global connectivity with each other and with strategic commanders, CINC's, and the Pentagon. The Multiplexer Integration and DCSS Automation System will provide backward compatability with the existing tactical infrastructure while also providing technology insertion for expanded capabilities. FY00/01 continues the 8-PSK (phase shift keying) modem procurement, which compresses strategic users on the DCSS and allows for expanded tactical access. FY00 also funds RDFCS software required to provide automatic level power control of FDMA links.

Exhibit P-5, Weapon OPA Cost Analysis		Appropriation/ Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment			P-1 Line Item Nomenclature: DSCS - DIGITAL EQUIPMENT (SPACE) (BB8501)			Weapon System Type:			Date: February 1999			
OPA Cost Elements		ID	FY 98			FY 99			FY 00			FY 01		
		CD	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
			\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000
DCSS Equipment Racks and Fabrication		A	4542	6	757	1932	3	644	1836	3	612	2776	4	694
Engineering Support														
Contractor Engineering			650			600			600			600		
Government Engineering			1152			801			799			797		
Program Management Admin			600			600			600			600		
Documentation			700			500			500			500		
Integrated Baseband Workstation						300	50	6						
Multiplexer Integration & DCSS Automation System (MIDAS)														
Hardware			4000	8	500									
Implementation						500			1000			1000		
Site Preparation			1000			800			800			800		
8-PSK Modem						1204	43	28	2296	82	28	3248	116	28
RSCCE						3584	7	512						
Documentation						242								
Fielding						174								
RDFCS Software									2000					
TOTAL			12644			11237			10431			10321		

Exhibit P-5a, Budget Procurement History and Planning

Date:
February 1999

Appropriation / Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment		Weapon System Type:			P-1 Line Item Nomenclature: DSCS - DIGITAL EQUIPMENT (SPACE) (BB8501)					
WBS Cost Elements: Fiscal Years	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY Each	Unit Cost \$000	Specs Avail Now?	Date Revsn Avail	RFP Issue Date
DCSS Equipment Racks and Fabrication										
FY98	TYAD	WR	CECOM	Nov-97	Jan-98	6	757	Yes		
FY99	TYAD	WR	CECOM	Nov-98	Jan-99	3	644	Yes		
FY00	TYAD	WR	CECOM	Nov-99	Feb-00	3	612	Yes		
FY01	TYAD	WR	CECOM	Nov-00	Jan-01	4	694	Yes		
Integrated Baseband Workstation										
FY99	TBS	C/FFP	CECOM	Feb-99	May-99	50	6	Yes		
MIDAS										
FY98	RAYTHEON	C/FFP Opt	CECOM	Apr-98	Jun-99	8	500	Yes		
8-PSK Modem										
FY99	TBS	C/FFP	CECOM	Mar-99	Jun-99	43	28	Yes		
FY00	TBS	C/FFP Opt	CECOM	Mar-00	Jun-00	82	28	Yes		
FY01	TBS	C/FFP Opt	CECOM	Mar-01	Jun-01	116	28	Yes		
RSCCE										
FY99	STANFORD TELECOM	C/FFP	CECOM	Jan-99	Sep-01	7	512	Yes		

REMARKS: WR = WORK REQUEST PSK = PHASE SHIFT KEYING
 TYAD = TOBYHANNA ARMY DEPOT RSCCE = REPLACEMENT SATELLITE CONFIGURATION CONTROL ELEMENT
 MIDAS = MULTIPLEXER INTEGRATION & DCSS AUTOMATION SYSTEM
 RDFCS = REPLACEMENT FREQUENCY DIVISION
 MULTIPLE ACCESS CONTROL SYSTEM

FY 98 / 99 BUDGET PRODUCTION SCHEDULE							P-1 Item Nomenclature: DSCS - DIGITAL EQUIPMENT (SPACE) (BB8501)													Date: February 1999											
COST ELEMENTS	MFR	FY	SERV	PROC QTY Each	ACCEP. PRIOR TO 1 OCT	BAL DUE AS OF 1 OCT	Fiscal Year 98												Fiscal Year 99												L A T E R
							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	
DCSS Equipment Racks and Fabrication	1	FY98	A	6	0	6																									
	1	FY99	A	3	0	3																									
	1	FY00	A	3	0	3																						3			
	1	FY01	A	4	0	4																						4			
Integrated Baseband Workstation	2	FY99	A	50	0	50																									
MIDAS	3	FY98	A	8	0	8																									
8-PSK Modem	4	FY99	A	43	0	43																									
	4	FY00	A	82	0	82																									
	4	FY01	A	116	0	116																									
RSCCE	5	FY99	A	7	0	7																									

MFR	NAME / LOCATION	PRODUCTION RATES			REACHED D +	MFR Number	ADMIN LEAD TIME		MFR After 1 Oct.	TOTAL After 1 Oct.	REMARKS		
		MIN.	1-8-5	MAX.			Prior 1 Oct.	After 1 Oct.					
1	TYAD	N/A	N/A	N/A		2	INITIAL		3	4	3	7	NO PROCUREMENT LEAD TIME FOR DCSS EQUIPMENT - WORK EFFORT FOR SITE UPGRADES AND FABRICATION OF OPERATIONS VANS ACCOMPLISHED BY TOBYHANNA ARMY DEPOT.
2	TBS	5	20	60		3	INITIAL		3	7	14	21	
3	RAYTHEON	1	4	8		4	INITIAL		2	5	3	8	
4	TBS	1	10	30		4	INITIAL		2	5	3	8	
5	STANFORD TELECOM	1	3	4		5	INITIAL		0	3	32	35	
							REORDER						
							REORDER						
							REORDER						
							INITIAL						
							REORDER						

FY 98 / 99 BUDGET PRODUCTION SCHEDULE

P-1 Item Nomenclature: DSCS - DIGITAL EQUIPMENT (SPACE) (BB8501)

Date: February 1999

COST ELEMENTS	MFR	FY	SERV	PROC QTY Each	ACCEP. TO 1 OCT	BAL DUE AS OF 1 OCT	Fiscal Year 00												Fiscal Year 01												L A T E R
							Calendar Year 00						Calendar Year 01																		
							OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	
DCSS Equipment Racks and Fabrication	1	FY98	A	6	6																										
	1	FY99	A	3	3																										
	1	FY00	A	3	0	3																									
	1	FY01	A	4	0	4																									
Integrated Baseband Workstation	2	FY99	A	50	50																										
MIDAS	3	FY98	A	8	4	4	1	1	1	1																					
8-PSK Modem	4	FY99	A	43	40	3	3																								
	4	FY00	A	82	0	82																									
	4	FY01	A	116	0	116																									
RSCCE	5	FY99	A	7	0	7																				1	6				

MFR	NAME / LOCATION	PRODUCTION RATES			REACHED D+	MFR Number	ADMIN LEAD TIME		MFR After 1 Oct.	TOTAL After 1 Oct.	REMARKS
		MIN.	1-8-5	MAX.			Prior 1 Oct.	After 1 Oct.			
		1	TYAD	N/A			N/A	N/A			
2	TBS	5	20	60	3	INITIAL	3	7	14	21	
3	RAYTHEON	1	4	8	4	REORDER		6	14	20	
4	TBS	1	10	30	4	INITIAL	2	5	3	8	
5	STANFORD TELECOM	1	3	4	5	REORDER		5	3	8	
					5	INITIAL	0	3	32	35	
						REORDER					
						INITIAL					
						REORDER					

REMARKS
 NO PROCUREMENT LEAD TIME FOR DCSS EQUIPMENT - WORK EFFORT FOR SITE UPGRADES AND FABRICATION OF OPERATIONS VANS ACCOMPLISHED BY TOBYHANNA ARMY DEPOT.

FY 98 / 99 BUDGET PRODUCTION SCHEDULE							P-1 Item Nomenclature: DSCS - DIGITAL EQUIPMENT (SPACE) (BB8501)												Date: February 1999												
COST ELEMENTS	MFR	FY	SERV	PROC QTY Each	ACCEP. PRIOR TO 1 OCT	BAL DUE AS OF 1 OCT	Fiscal Year 02												Fiscal Year 03												L A T E R
							Calendar Year 02						Calendar Year 03						Calendar Year 03												
							OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	
DCSS Equipment Racks and Fabrication	1	FY98	A	6	6																										
	1	FY99	A	3	3																										
	1	FY00	A	3	3																										
	1	FY01	A	4	4																										
Integrated Baseband Workstation	2	FY99	A	50	50																										
MIDAS	3	FY98	A	8	8																										
8-PSK Modem	4	FY99	A	43	43																										
	4	FY00	A	82	82																										
	4	FY01	A	116	40	76	10	10	10	10	10	10	10	6																	
RSCCE	5	FY99	A	7	1	6	3	3																							

MFR	NAME / LOCATION	PRODUCTION RATES			REACHED D +	MFR Number	ADMIN LEAD TIME		MFR After 1 Oct.	TOTAL After 1 Oct.	REMARKS		
		MIN.	1-8-5	MAX.			Prior 1 Oct.	After 1 Oct.					
1	TYAD	N/A	N/A	N/A		2	INITIAL		3	4	3	7	NO PROCUREMENT LEAD TIME FOR DCSS EQUIPMENT - WORK EFFORT FOR SITE UPGRADES AND FABRICATION OF OPERATIONS VANS ACCOMPLISHED BY TOBYHANNA ARMY DEPOT.
2	TBS	5	20	60		3	INITIAL		3	7	14	21	
3	RAYTHEON	1	4	8		4	INITIAL		2	5	3	8	
4	TBS	1	10	30		4	INITIAL		2	5	3	8	
5	STANFORD TELECOM	1	3	4		5	INITIAL		0	3	32	35	
							REORDER						
							REORDER						
							INITIAL						
							REORDER						
							REORDER						

Exhibit P-40, Budget Item Justification Sheet

Date: February 1999

Appropriation / Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment
 P-1 Item Nomenclature: DSCS - INTERCONNECT FACILITY (SPACE) (BB8504)

Program Elements for Code B Items: Code: Other Related Program Elements:

	Prior Years	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	To Complete	Total Prog
Proc Qty												
Gross Cost	113.5	3.2	3.9	10.5	10.1	10.1	10.7	10.9	12.9	11.0		196.8
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	113.5	3.2	3.9	10.5	10.1	10.1	10.7	10.9	12.9	11.0		196.8
Initial Spares												
Total Proc Cost	113.5	3.2	3.9	10.5	10.1	10.1	10.7	10.9	12.9	11.0		196.8
Flyaway U/C												
Wpn Sys Proc U/C												

DESCRIPTION: This program executes the Army's executive agency responsibility to install and relocate strategic Defense Satellite Communications System (DSCS) satellite communications earth terminals procured by Product Manager, DSCS Terminals and digital communications equipment procured and packaged by Assistant Project Manager, Digital Communications Satellite Subsystem. For the Army, this program also designs, procures and installs the interconnection facility to interface this equipment with existing Technical Control and Special User Facilities.

JUSTIFICATION: FY00 & 01 funds buy equipment in support of Defense Information Systems Agency (DISA) and Joint Chiefs of Staff (JCS) directed satellite ground terminal relocations supporting the realignment of US Forces worldwide. Reduced overseas manning and the refocus of US interests to areas such as Southwest Asia requires a major shift of key strategic satellite ground resources to support new areas of interest and troop dispositions. Additionally, sustaining the Defense Satellite Communications System (DSCS) systems requires marginal systems to be replaced by newer equipment made available by US troop withdrawals from Europe and other areas.

Exhibit P-5, Weapon OPA Cost Analysis		Appropriation/ Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment			P-1 Line Item Nomenclature: DSCS - INTERCONNECT FACILITY (SPACE) (BB8504)			Weapon System Type:			Date: February 1999			
OPA Cost Elements		ID	FY 98			FY 99			FY 00			FY 01		
		CD	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
			\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000
DCL/GGCL	A		173	VAR	VAR	200	VAR	VAR	200	VAR	VAR	200	VAR	VAR
TERMINAL INSTALLATIONS	A		2166	VAR	VAR	686	VAR	VAR	108	VAR	VAR	2166	VAR	VAR
ENGINEERING/TEST	A		200	VAR	VAR	1670	VAR	VAR	1500	VAR	VAR	1500	VAR	VAR
DEACTIVATION/RELOCATION	A		200	VAR	VAR	1000	VAR	VAR	800	VAR	VAR	1000	VAR	VAR
ICF UPGRADES	A		300	VAR	VAR	450	VAR	VAR	250	VAR	VAR	250	VAR	VAR
DCSS/UPGRADES/MODERNIZATION	A					1500	VAR	VAR	2500	VAR	VAR			
NON-RECURRING ENG	A		115	VAR	VAR	2790	VAR	VAR	2396	VAR	VAR	2387	VAR	VAR
DSCS EARTH TERMINAL RESOURCE MGT SYS	A		250	VAR	VAR	150	VAR	VAR	150	VAR	VAR	150	VAR	VAR
BILL OF MATERIEL SYSTEM	A		476	VAR	VAR	488	VAR	VAR	487	VAR	VAR	504	VAR	VAR
PROJECT MGT ADMIN						990	VAR	VAR	900	VAR	VAR	1000	VAR	VAR
GOVERNMENT SUPPORT	A		50	VAR	VAR	615	VAR	VAR	820	VAR	VAR	900	VAR	VAR
TOTAL			3930			10539			10111			10057		
* Project Mgt Admin was funded by OMA.														

Exhibit P-5a, Budget Procurement History and Planning

Date: February 1999

Appropriation / Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment		Weapon System Type:			P-1 Line Item Nomenclature: DSCS - INTERCONNECT FACILITY (SPACE) (BB8504)					
WBS Cost Elements: Fiscal Years	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY Each	Unit Cost \$000	Specs Avail Now?	Date Revsn Avail	RFP Issue Date
DCL/GGCL										
FY98	IN-HOUSE	MIPR		VAR	Dec-98	VAR	VAR	Yes	No	
FY99	IN-HOUSE	MIPR		VAR	Dec-99	VAR	VAR	Yes	No	
FY00	IN-HOUSE	MIPR		VAR	Dec-00	VAR	VAR	Yes	No	
FY01	IN-HOUSE	MIPR		VAR	Dec-01	VAR	VAR	Yes	No	

REMARKS:

Exhibit P-40, Budget Item Justification Sheet

Date: February 1999

Appropriation / Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment
 P-1 Item Nomenclature: DSCS - JAM RESISTANT SECURE COMM (JRSC) (BA8300)

Program Elements for Code B Items: Code: Other Related Program Elements:

	Prior Years	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	To Complete	Total Prog
Proc Qty												
Gross Cost	313.3	28.7	18.1	14.0	14.1	9.0	6.2	6.2	4.5	3.8		417.9
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	313.3	28.7	18.1	14.0	14.1	9.0	6.2	6.2	4.5	3.8		417.9
Initial Spares												
Total Proc Cost	313.3	28.7	18.1	14.0	14.1	9.0	6.2	6.2	4.5	3.8		417.9
Flyaway U/C												
Wpn Sys Proc U/C												

DESCRIPTION: The Jam Resistant Secure Communications (JRSC) provides communications connectivity that will survive jamming and high altitude nuclear events which cause High-Altitude Electromagnetic Pulse (HEMP) and other perturbed atmospheric conditions. In FY00/01, the Universal Modem System (UMS) is the only funded program. The other identified anti-jam systems have already been acquired. The UMS will enable strategic and tactical forces under the command of the U.S., U.K. and NATO to have interoperable voice and digital data satellite communications capability under jamming and nuclear scintillation, while using non-processing transponders of the DSCS III, NATO or SKYNET 4 satellite systems.

JUSTIFICATION: The FY00 funds procures seventy-nine (79) UMS's of various configurations for strategic satellite terminals. In addition, the Follow-On-Test and Evaluation (FOTE) will be conducted. FY01 funds provide for the fielding and support of the UMS.

Exhibit P-5, Weapon OPA Cost Analysis		Appropriation/ Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment			P-1 Line Item Nomenclature: DSCS - JAM RESISTANT SECURE COMM (JRSC) (BA8300)			Weapon System Type:			Date: February 1999		
OPA Cost Elements	ID CD	FY 98			FY 99			FY 00			FY 01		
		TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000
UMS:		7280	53	137				11175	79	141			
ENGINEERING CHANGE ORDERS		4385			2099			383			146		
DOCUMENTATION		201											
PROJECT MANAGEMENT		497			1144			1260			968		
ENGINEERING SUPPORT		1956			1076			516			1096		
SYSTEM ANALYSIS & INTEGRATION		2221			1500			269			415		
TRAINING/FIELDING											4641		
COMSEC		1397			506								
GFE/RACKS		176			1400								
FOTE					3300			534					
PPSS													
SIMULATORS													
RSCCE					2942	5	588				1728		
TOTAL		18113			13967			14137			8994		

Exhibit P-5a, Budget Procurement History and Planning

Date: February 1999

Appropriation / Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics
 Equipment
 Weapon System Type:
 P-1 Line Item Nomenclature: DSCS - JAM RESISTANT SECURE COMM (JRSC) (BA8300)

WBS Cost Elements: Fiscal Years	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY Each	Unit Cost \$000	Specs Avail Now?	Date Revsn Avail	RFP Issue Date
UNIVERSAL MODEM SYSTEM FY97	ROCKWELL-COLLINS RICHARDSON, TX	C/FP	CECOM	Feb-97	Feb-00	18	333	Yes		
UNIVERSAL MODEM SYSTEM FY98	ROCKWELL-COLLINS RICHARDSON, TX	C/FP(Opt)	CECOM	Mar-98	Jun-00	53	137	Yes		
UNIVERSAL MODEM SYSTEM FY00	ROCKWELL-COLLINS RICHARDSON, TX	C/FP(Opt)	CECOM	Nov-99	Feb-02	79		Yes		
RSCCE/SLEP FY99	STANFORD TELECOM COLORADO SPRINGS, CO	C/FP	CECOM	Jan-99	Dec-01	5	506	Yes		

REMARKS:

FY 98 / 99 BUDGET PRODUCTION SCHEDULE

P-1 Item Nomenclature:

DSCS - JAM RESISTANT SECURE COMM (JRSC) (BA8300)

Date:

February 1999

COST ELEMENTS	MFR	FY	SERV	PROC QTY Each	ACCEP. PRIOR TO 1 OCT	BAL DUE AS OF 1 OCT	Fiscal Year 02												Fiscal Year 03												L A T E R
							Calendar Year 02												Calendar Year 03												
							OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	
UNIVERSAL MODEM SYSTEM	1	FY97	A	18	18																										
		FY98	A	53	53																										
		FY00	A	79	24	55	8	8	8	8	8	8	8	8	8	8	7										-24				
RSCCE	2	FY99	A	5	0	5																									

MFR	NAME / LOCATION	PRODUCTION RATES			REACHED D+	MFR Number	ADMIN LEAD TIME		MFR After 1 Oct.	TOTAL After 1 Oct.	REMARKS
		MIN.	1-8-5	MAX.			Prior 1 Oct.	After 1 Oct.			
1	ROCKWELL-COLLINS, RICHARDSON, TX	3	8	14	4	INITIAL	3	3	35	38	THIS PRODUCTION SCHEDULE FOR STRATEGIC UMS ONLY. OTHER CUSTOMERS ARE NOT REFLECTED.
						REORDER	0	3	23	26	
2	STANFORD TELECOM, INC., COLORADO SPRINGS, CO	1	3	4		INITIAL					
						REORDER					
						INITIAL					
						REORDER					
						INITIAL					
						REORDER					
						INITIAL					
						REORDER					

Exhibit P-40, Budget Item Justification Sheet

Date: February 1999

Appropriation / Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment
 P-1 Item Nomenclature: DSCS - OPERATIONS CONTROL SYS (DOCS) (SP (BB8509))

Program Elements for Code B Items: Code: Other Related Program Elements:

	Prior Years	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	To Complete	Total Prog
Proc Qty												
Gross Cost	456.2	10.1	15.7	26.8	16.8	15.4	9.2	9.5	25.1	32.4		617.2
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	456.2	10.1	15.7	26.8	16.8	15.4	9.2	9.5	25.1	32.4		617.2
Initial Spares												
Total Proc Cost	456.2	10.1	15.7	26.8	16.8	15.4	9.2	9.5	25.1	32.4		617.2
Flyaway U/C												
Wpn Sys Proc U/C												

DESCRIPTION: The Defense Satellite Communications System (DSCS) Operations Control System (DOCS) provides for the management of DSCS earth terminal and satellite resources, which is required for rapid and efficient reaction to operational needs in support of the warfighter. DOCS is made up of a number of semi-automated subsystems which configure, monitor, maintain, and restore all communications links, and automatically control operations over these links. The Objective DSCS Operations Center (ODOC) will modernize the existing DOCS subsystems to provide improved satellite communications to Ground Mobile Forces and Strategic users. It will replace the existing (largely manual) control system, provide greatly enhanced responsive system control, reduce the number of personnel required, and increase overall system availability with associated reductions in operations and maintenance costs. DOCS supports control of the satellite payload, satellite communications network planning, satellite communications link performance monitoring, and control of ground satellite terminals. DOCS assures reliable satellite communications networks to support unique user mission requirements vital to national security under stressed and unstressed conditions.

JUSTIFICATION: FY00 funds procure the remaining Replacement BATSON (RBATSON) quantities, initial Replacement DSCS FDMA Control Subsystem (RDFCS) quantities, and Operational Databases. The RBATSON is required to provide security, authentication, and anti-jam waveform protection to satellite commands generated by the Replacement Satellite Configuration Control Element (RSCCE) for transmission to DSCS III satellites. The RDFCS is required to provide automatic level power control of FDMA links. This allows operation of FDMA links with reduced power margins without sacrificing link quality. The net result is more communications capabilities for the users. Operational Databases are satellite unique databases required for command and control of DSCS III satellites. FY00 also funds annualized engineering, matrix, system integration, and fielding support of current and prior year procurements.

FY01 funds procure the DSCS Spectrum Management System (DSMS) and DOCS Training System (DTS). DSMS replaces the aging, obsolete DSCS Automatic Spectrum Analyzer (DASA). DSMS will employ advanced Digital Signal Processing techniques to provide rapid characterization of transponder utilization and time

Exhibit P-40C Budget Item Justification Sheet

Date

February 1999

Appropriation / Budget Activity/Serial No.

OTHER PROCUREMENT / 2 / Communications and Electronics Equipment

P-1 Item Nomenclature

DSCS - OPERATIONS CONTROL SYS (DOCS) (SP (BB8509)

Program Elements for Code B Items

Code

Other Related Program Elements

analysis to keep pace with the rapid signal characterization. DTS is emulation/simulation software modules used to train personnel (MOS 31S) on both the new and upgraded DOCS subsystems. FY01 also funds annualized engineering, matrix, system integration, and fielding support of current and prior year procurements.

Exhibit P-5, Weapon OPA Cost Analysis		Appropriation/ Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment			P-1 Line Item Nomenclature: DSCS - OPERATIONS CONTROL SYS (DOCS) (SP (BB8509))			Weapon System Type:			Date: February 1999			
OPA Cost Elements		ID	FY 98			FY 99			FY00			FY 01		
		CD	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
			\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000
Hardware:														
DFCS Upgrade			1089	126	9									
MIDAS			6000	12	500									
RSCCE						2879	5	576						
RBATSON						1677	9	186	1063	7	152			
ODOC						7139	15	476						
GTC3						1428	99	14						
RDFCS									560	8	70			
DSMS												4128	15	275
Software			1419			4087			8054			4427		
ECP'S						402			411			329		
Government Engineering			1820			1907			1700			1400		
Contractor Engineering			910			862			581			861		
System Integration			2612			2170			2123			2421		
Documentation			719			2871			1481			860		
Fielding			989			1091			496			630		
PM Admin			135			335			335			335		
TOTAL			15693			26848			16804			15391		

Exhibit P-5a, Budget Procurement History and Planning

Date: February 1999

Appropriation / Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment		Weapon System Type:			P-1 Line Item Nomenclature: DSCS - OPERATIONS CONTROL SYS (DOCS) (SP (BB8509)					
WBS Cost Elements: Fiscal Years	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY Each	Unit Cost \$000	Specs Avail Now?	Date Revsn Avail	RFP Issue Date
DFCS Upgrade FY98	Stanford Telecom, Inc Colorado Springs, CO	C/FP	ARMY SPACE COMMAND	Mar-98	Jan-99	126	9	Yes		
MIDAS FY98	Raytheon Marlboro, MA	C/FP	CECOM	Apr-98	Apr-99	12	500	Yes		
Replacement Satellite Configuration Control Element (RSCCE) FY99	Stanford Telecom, Inc Colorado Springs, CO	C/FP(Opt)	CECOM	Feb-99	Aug-01	5	576	Yes		
Replacement BATSON (RBATSON) FY99	Stanford Telecom, Inc Colorado Springs, CO	C/FP(Opt)	CECOM	Mar-99	Apr-00	9	186	Yes		
FY00	Stanford Telecom, Inc Colorado Springs, CO	C/FP(Opt)	CECOM	Jan-00	Sep-00	7	152	Yes		
ODOC Workstations FY99	Stanford Telecom, Inc Colorado Springs, CO	C/FP	ARMY SPACE COMMAND	Dec-98	Nov-99	15	476	Yes		
Global Terrestrial Critical Control Circuit (GTC3) FY99	TBS	C/FP	GSA	Mar-99	Feb-00	99	14	Yes		
Replacement DFCS FY00	TBS	C/FP	CECOM	Jan-00	Jan-02	8	70	No		
DSMS FY01	TBS	C/FP	CECOM	Jan-01	Jan-02	15	275	No		

REMARKS:

FY 98 / 99 BUDGET PRODUCTION SCHEDULE							P-1 Item Nomenclature: DSCS - OPERATIONS CONTROL SYS (DOCS) (SP (BB8509))													Date: February 1999																		
COST ELEMENTS	MFR	FY	SERV	PROC QTY Each	ACCEP. PRIOR TO 1 OCT	BAL DUE AS OF 1 OCT	Fiscal Year 00												Fiscal Year 01								L A T E R											
							Calendar Year 00												Calendar Year 01																			
							O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M		J	J	A	S							
							C	O	E	A	E	A	P	A	U	U	U	E	C	O	E	A	E	A	P	A		U	U	U	E							
DFCS UPGRADE	1	FY98	A	126	0																																	
MIDAS	2	FY98	A	12	6	6	1	1	1	1	1	1																										
RSCCE	3	FY99	A	5	0	5																																
RBATSON	4	FY99	A	9	0	9								1	2	2	2	2																				
	4	FY00	A	7	0	7					A								2	2	2	1																
ODOC	5	FY99	A	15	0	15		1	2	2	2	2		2	2	2																						
GTC3	6	FY99	A	99	0	99					10	15		15	20	20	19																					
RDFCS	7	FY00	A	8	0	8					A																											
DSMS	8	FY01	A	15	0	15																	A															
						0																																
						0																																
MFR		PRODUCTION RATES				REACHED	MFR Number	ADMIN LEAD TIME				MFR	TOTAL	REMARKS																								
	NAME / LOCATION	MIN.	1-8-5	MAX.	D +	1	Prior 1 Oct.		After 1 Oct.		After 1 Oct.	After 1 Oct.																										
1	Stanford Telecom, Inc., Colorado Springs, CO	30	45	55		1	INITIAL	0	5	10	15	MFR#1 = DFCS Upgrade																										
2	Raytheon, Marlboro, MA	1	1	2		2	REORDER	N/A	N/A	N/A	18	MFR#2 = MIDAS																										
3	Stanford Telecom, Inc., Colorado Springs, CO	1	3	4		3	INITIAL	0	6	12	18	MFR#3 = RSCCE																										
4	Stanford Telecom, Inc., Colorado Springs, CO	1	2	3		4	REORDER	N/A	N/A	N/A	34	MFR#4 = RBATSON																										
5	Stanford Telecom, Inc., Colorado Springs, CO	1	2	3		5	INITIAL	11	4	30	34	MFR#5 = ODOC																										
6	TBS	10	20	30		6	REORDER	N/A	N/A	N/A	18	MFR#6 = GTC3																										
7	TBS	1	25	30		7	INITIAL	11	5	13	18	MFR#7 = RDFCS																										
8	TBS	2	5	7		8	REORDER	0	3	8	11	MFR#8 = DSMS																										
						5	INITIAL	0	2	11	13																											
						5	REORDER	N/A	N/A	N/A	13																											

Exhibit P-40, Budget Item Justification Sheet

Date: February 1999

Appropriation / Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment
 P-1 Item Nomenclature: DSCS - MOD OF IN-SVC EQUIP (SPACE) (BB8416)

Program Elements for Code B Items: Code: Other Related Program Elements:

	Prior Years	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	To Complete	Total Prog
Proc Qty												
Gross Cost	269.8	33.5	32.0	31.6	17.0	26.0	23.2	21.4	19.4	17.0		490.9
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	269.8	33.5	32.0	31.6	17.0	26.0	23.2	21.4	19.4	17.0		490.9
Initial Spares												
Total Proc Cost	269.8	33.5	32.0	31.6	17.0	26.0	23.2	21.4	19.4	17.0		490.9
Flyaway U/C												
Wpn Sys Proc U/C												

DESCRIPTION: These modifications will modernize the aging AN/GSC-52 medium terminal (MT) so that all Defense Satellite Communications System (DSCS) Super High Frequency (SHF) strategic earth terminals use common electronics and logistics support. The result will extend the life of the terminals, increase readiness, reduce training and logistics support, conserve energy and improve maintainability. This modernization effort will eliminate system obsolescence, modernize existing equipment and provide component commonality with other existing strategic terminals.

JUSTIFICATION: FY00 & 01 funds are required to procure the second and third options for the AN/GSC-52 installation kits and components that are common to the other DSCS satellite terminals.

Exhibit P-40M Budget Item Justification Sheet

Date
February 1999

Appropriation / Budget Activity/Serial No. OTHER PROCUREMENT / 2 / Communications and Electronics Equipment
P-1 Item Nomenclature DSCS - MOD OF IN-SVC EQUIP (SPACE) (BB8416)

Program Elements for Code B Items Code Other Related Program Elements

Description		Fiscal Years									
OSIP NO.	Classification	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004/5	TC	Total

AN/GSC-52 Modernization											
1-89-07-0030		20.3	25.4	28.2	17.0	26.0	23.2	21.4	36.4		197.9
Terminal Modernization											
1-89-07-0005		13.2	6.6	3.4	0.0	0.0	0.0	0.0	0.0		23.2
Totals											
		33.5	32.0	31.6	17.0	26.0	23.2	21.4	36.4		221.1

INDIVIDUAL MODIFICATION

Date February 1999

MODIFICATION TITLE: AN/GSC-52 Modernization 1-89-07-0030

MODELS OF SYSTEMS AFFECTED: AN/GSC-52 Modernization

DESCRIPTION / JUSTIFICATION:

The modernization effort of the AN/GSC-52 System will eliminate obsolescence, modernize the existing equipment and provide commonality with other existing terminals. The acquisition strategy consists of a two contract approach. In FY97, components which are common to the AN/GSC-39 and AN/FSC-78/79 terminals were purchased from an existing contractual vehicle as a cost effective means to insure component commonality for these DSCS Terminals. A contract was awarded in FY98 for the production of installation kits and installation of the AN/GSC-52 hardware. The guidance was directed by DISA DSCS Program Plan FY93-98, dated January 1994. FY99 funds continue the acquisition of AN/GSC-52 installation kits and continue the procurement of common components.

DEVELOPMENT STATUS / MAJOR DEVELOPMENT MILESTONES:

FY00 and FY01 funds are required to continue the acquisition of AN/GSC-52 installation kits and continue the acquisition of common components.

Installation Schedule:

Pr Yr	FY 1997				FY 1998				FY 1999				FY 2000				FY 2001			
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Totals																			2	1
Inputs																				
Outputs																				2

	FY 2002				FY 2003				FY 2004				FY 2005				To Complete	Totals
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4		
Inputs	2	2	2	2	3	3	3	3	3	3	3	3	2	2				39
Outputs	1	2	2	2	2	3	3	3	3	3	3	3	3	2	2			39

METHOD OF IMPLEMENTATION: MWO **ADMINISTRATIVE LEADTIME:** 3 Months **PRODUCTION LEADTIME:** Months

Contract Dates: FY 1997 FY 1998 May 98 FY 1999 Jan 99 FY2000 Jun 00

Delivery Date: FY 1997 FY 1998 Jun 01 FY 1999 Aug 01 FY2000 Jan 03

INDIVIDUAL MODIFICATION

Date February 1999

MODIFICATION TITLE (Cont): AN/GSC-52 Modernization 1-89-07-0030

FINANCIAL PLAN: (\$ in Millions)

	FY 1998 and Prior		FY 1999		FY 2000		FY 2001		FY 2002		FY 2003		FY 2004		FY 2005		TC		TOTAL		
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	
AN/GSC-52 Mod Hardware	39	18.9																	39	18.9	
Other Hardware		0.6																		0.6	
Vans	2	0.2	10	0.8	6	0.5	10	0.9	2	0.2									30	2.6	
Restoral Terminals	1	1.3	3	4.0															4	5.3	
Installation Kits (recurring)	3	2.3	8	6.0	8	6.0	10	7.5	6	4.5	4	3.0							39	29.3	
Installation Kits (nonrecurring)		5.9																		5.9	
Antenna Modernization		0.4		1.1		1.1		1.4		0.9		0.6								5.5	
Engineering Change Orders				4.5		3.1		4.4		3.1		0.6		0.3		0.2				16.2	
Data/Documentation		3.2		0.4		0.2		0.2		0.2		0.2								4.4	
Testing		1.6						0.1		0.4		0.9		0.5		0.4				3.9	
Training						0.2		0.3		0.4		0.3								1.2	
Total Package Fielding						0.1		0.2		0.5		0.7		0.9		0.9				3.3	
Interim Contractor Support								0.3		1.3		3.9		2.1		6.4				14.0	
Project Mgmt Admin		0.4		0.3		0.3		0.3		0.3		0.3		0.3		0.3				2.5	
Government Support		2.2		3.2		2.0		2.3		1.9		1.4		1.0		0.7				14.7	
Software Development/PDSS		8.1				1.3		1.3		1.3		1.3		1.3		1.4				16.0	
Other DSCS Term Hardware				7.9		2.2		5.0		3.4		1.0		5.8		4.3				29.6	
Taxes																					
Total Procurement Costs		45.1		28.2		17.0		24.2		18.4		14.2		12.2		14.6				173.9	
FY98							3	1.8												3	1.8
FY99									8	4.8										8	4.8
FY00											8	4.8								8	4.8
FY01											4	2.4	6	3.6						10	6.0
FY02													6	3.6						6	3.6
FY03															4	2.4				4	2.4
Total Installment		45.1					3	1.8	8	4.8	12	7.2	12	7.2	4	2.4				39	23.4
Total Procurement Cost		45.1		28.2		17.0		26.0		23.2		21.4		19.4		17.0				39	197.3

INDIVIDUAL MODIFICATION

Date

February 1999

MODIFICATION TITLE (Cont): Terminal Modernization 1-89-07-0005

FINANCIAL PLAN: (\$ in Millions)

	FY 1996 and Prior		FY 1997		FY 1998		FY 1999		FY 2000		FY 2001		FY 2002		FY 2003		TC		TOTAL		
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	
Reprogram to Higher Army Priorities		3.4																			3.4
PROCUREMENT																					
Equipment		126.1		5.1																	131.2
Equipment (nonrecurring)		16.7																			16.7
Installation Kits (recurring)	52	8.7																		52	8.7
Installation Kits (nonrecurring)		5.4																			5.4
Engineering Change Orders		7.4																			7.4
Data		12.2																			12.2
Training Equipment		2.6																			2.6
Support Equipment		0.3																			0.3
GFE		6.3																			6.3
Project Mgt Admin		3.0		0.5		0.5		0.3													4.3
Fielding		2.8		0.3		0.3		0.2													3.6
Interim Contractor Support		5.9		0.6		0.6		0.4													7.5
Gov't/Contr Support		14.6		1.1		1.0		0.5													17.2
Installation of Hardware																					
FY 1996 & Prior Eqpt -- Kits	24	14.8	12	5.6	14	4.2	2	2.0												52	26.6
FY 1997 Eqpt -- Kits																					
FY 1998 Eqpt -- Kits																					
FY 1999 Eqpt -- Kits																					
FY 2000 Eqpt -- kits																					
FY 2001 Eqpt -- kits																					
FY 2002 Eqpt -- kits																					
FY 2003 Eqpt -- kits																					
(FY(TC) Eqpt (xx kits)																					
Total Installment	24	14.8	12	5.6	14	4.2	2	2.0												52	26.6
Total Procurement Cost		230.2		13.2		6.6		3.4													253.4

Exhibit P-40, Budget Item Justification Sheet

Date: February 1999

Appropriation / Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment
 P-1 Item Nomenclature: SHF TERM (BA9350)

Program Elements for Code B Items: Code: A Other Related Program Elements:

	Prior Years	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	To Complete	Total Prog
Proc Qty			6	4	13	33						56
Gross Cost	0.0	13.3	15.3	25.3	32.0	62.2	70.3	49.2	49.6	11.5	0.0	328.7
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	0.0	13.3	15.3	25.3	32.0	62.2	70.3	49.2	49.6	11.5	0.0	328.7
Initial Spares												
Total Proc Cost	0.0	13.3	15.3	25.3	32.0	62.2	70.3	49.2	49.6	11.5	0.0	328.7
Flyaway U/C												
Wpn Sys Proc U/C												

DESCRIPTION: Super High Frequency (SHF) Tri-Band Advanced Range Extension Terminal (STAR-T) is a Heavy High Mobility Multi-purpose Wheeled Vehicle (HMMWV) mounted, multi-channel Tactical Satellite Terminal (TACSAT). It has a tri-band capability in the Super High Frequency (SHF) range and will operate over commercial and military SHF satellites. Selected terminals will also have an integrated switch that will interface with both commercial and joint military switching systems. The STAR-T is also being procured by the USMC and the Joint Communications Support Element (JCSE) and will selectively replace the current TSC-85 and TSC-93 SHF multi-channel TACSAT terminals.

JUSTIFICATION: In FY00, funds will procure thirteen STAR-T terminals, FY01 funds will procure thirty three. This program will replace the aging fleet of AN/TSC-85/93 terminals by providing Tri-Band communications capability for split based operations. The AN/TSC-85/93 terminals cannot meet the transportability and deployability requirements of a force projection Army, nor can they exploit commercial space as mandated by OSD. Prolonging the life of these terminals would result in rapidly escalating maintenance costs which negatively impact upon the O&M budget. The STAR-T will selectively replace the Ground Mobile Forces (GMF) terminals at Echelons Above Corps (EAC).

Exhibit P-5, Weapon OPA Cost Analysis		Appropriation/ Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment			P-1 Line Item Nomenclature: SHF TERM (BA9350)			Weapon System Type:			Date: February 1999		
OPA Cost Elements	ID CD	FY 98			FY 99			FY 00			FY 01		
		TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000
Hardware (Terminals)	A	3625	6	604	2420	4	605	7866	13	605	19839	33	601
Hardware (Other): Switches/Baseband					6255			9236			16844		
VME Infosec Module								495			1279		
Universal Modem System								348			7308		
Net Planning Tools					2450			1893			3434		
GFE		3026			831			3076			6494		
ECP		7134			3073			1492			450		
Contractor Engineering		705			1439			1350			1286		
Government Engineering		399			796			677			689		
Government Program Mgmt		232			883			635			646		
Test		120			750			858			877		
HW/SW Integration					3084			2780			1869		
Fielding		40			815			1069			1168		
Support Equipment					263			175					
Computer-Based Training					2200								
Total		15281			25259			31950			62183		

Exhibit P-5a, Budget Procurement History and Planning

Date:
February 1999

Appropriation / Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment		Weapon System Type:			P-1 Line Item Nomenclature: SHF TERM (BA9350)					
WBS Cost Elements: Fiscal Years	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY Each	Unit Cost \$000	Specs Avail Now?	Date Revsn Avail	RFP Issue Date
HARDWARE FY1997	RAYTHEON COMPANY MARLBOROUGH, MA	FFP/OPT	CECOM	Feb-97	Mar-99	5	1121	YES		
FY1998	RAYTHEON COMPANY MARLBOROUGH, MA	FFP/OPT	CECOM	Apr-98	Jan-00	6	604	YES		
FY1999	RAYTHEON COMPANY MARLBOROUGH, MA	FFP/OPT	CECOM	Feb-99	Mar-00	4	605	YES		
FY2000	RAYTHEON COMPANY MARLBOROUGH, MA	FFP/OPT	CECOM	Mar-00	Nov-00	13	605	YES		
FY2001	RAYTHEON COMPANY MARLBOROUGH, MA	FFP/OPT	CECOM	Feb-01	Oct-01	33	601	YES		

REMARKS: The STAR-T is a firm fixed price option to the Special Operations Forces Tactical Assured Connectivity System (SOFTACS) Tri-Band Terminal contract which was awarded in August 1996. Unit costs vary due to different configurations and complements of ancillary equipment.

FY 2000 / 2001 BUDGET PRODUCTION SCHEDULE

P-1 Item Nomenclature: SHF TERM (BA9350) Date: February 1999

COST ELEMENTS	MFR	FY	SERV	PROC QTY Each	ACCEP. PRIOR TO 1 OCT	BAL DUE AS OF 1 OCT	Fiscal Year 02												Fiscal Year 03												LATER
							Calendar Year 02						Calendar Year 03						Calendar Year 03												
							OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	
Hardware	1	FY97	A	5	5																										
		FY98	A	6	6																										
		FY99	A	4	4																										
		FY00	A	13	13																										
		FY01	A	33	0	33	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3						
TOTAL				61	28	33	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3						

MFR	NAME / LOCATION	PRODUCTION RATES			REACHED D +	MFR Number	ADMIN LEAD TIME		MFR After 1 Oct.	TOTAL After 1 Oct.	REMARKS	
		MIN.	1-8-5	MAX.			Prior 1 Oct.	After 1 Oct.				
1	RAYTHEON, MARLBOROUGH, MA	1	4	7		1	INITIAL	8	4	18	22	SOCOM, USMC & JCSE may be procuring terminals in FY00 and beyond. LRIP terminals procured in FY97, FY98 & FY99.
							REORDER	0	6	14	20	
							INITIAL					
							REORDER					
							INITIAL					
							REORDER					
							INITIAL					
							REORDER					

Exhibit P-40, Budget Item Justification Sheet

Date: February 1999

Appropriation / Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment
 P-1 Item Nomenclature: SAT TERM, EMUT (SPACE) (K77200)

Program Elements for Code B Items: Code: A Other Related Program Elements:

	Prior Years	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	To Complete	Total Prog
Proc Qty	1538	754	110									2402
Gross Cost	41.7	18.5	7.0	2.4	1.5	0.0	0.0	0.0	0.0	28.1	0.0	99.3
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	41.7	18.5	7.0	2.4	1.5	0.0	0.0	0.0	0.0	28.1	0.0	99.3
Initial Spares												
Total Proc Cost	41.7	18.5	7.0	2.4	1.5	0.0	0.0	0.0	0.0	28.1	0.0	99.3
Flyaway U/C												
Wpn Sys Proc U/C												

DESCRIPTION: The Enhanced Manpack UHF Terminal (SPITFIRE) program replaces the existing inventory of single channel SATCOM radios to add Communications Security (COMSEC), and Demand Assigned Multiple Access (DAMA) capability to support all DoD, Special Operations Forces (SOF) and other Agencies. Joint Staff (JS) has mandated that all UHF satellite manpack terminals be secure and have DAMA capability. No other DoD manpack terminals possess the UHF DAMA capability, which allows more efficient use of limited satellite resources.

JUSTIFICATION: FY00 funding will field SPITFIRE prior year procurements.

Exhibit P-5, Weapon OPA Cost Analysis		Appropriation/ Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment			P-1 Line Item Nomenclature: SAT TERM, EMUT (SPACE) (K77200)			Weapon System Type:			Date: February 1999			
OPA Cost Elements		ID	FY 98			FY 99			FY 00			FY 01		
		CD	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
			\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000
Hardware			2970	110	27									
Engineering Support														
Contractor Engineering			450			400			200					
Government Engineering			781			442			293					
Government Program Mgmt			330			155			150					
ECP's			245											
Test			348			615			300					
Fielding			1914			835			604					
TOTAL			7038			2447			1547					

Exhibit P-5a, Budget Procurement History and Planning

Date: February 1999

Appropriation / Budget Activity/Serial No:
 OTHER PROCUREMENT / 2 / Communications and Electronics
 Equipment

Weapon System Type:

P-1 Line Item Nomenclature:
 SAT TERM, EMUT (SPACE) (K77200)

WBS Cost Elements: Fiscal Years	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY Each	Unit Cost \$000	Specs Avail Now?	Date Revsn Avail	RFP Issue Date
Hardware										
FY97	Raytheon Sys Co, Ft. Wayne, IN	FFP/Opt	CECOM	Jun-97	Jan-99	754	20	Yes		
FY 98	Raytheon Sys Co, Ft. Wayne, IN	FFP/Opt	CECOM	Mar-98	Aug-99	110	27	yes		

REMARKS:

Exhibit P-40, Budget Item Justification Sheet

Date: February 1999

Appropriation / Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment
 P-1 Item Nomenclature: NAVSTAR GLOBAL POSITIONING SYSTEM (SPACE (K47800))

Program Elements for Code B Items: Code: Other Related Program Elements:

	Prior Years	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	To Complete	Total Prog
Proc Qty	27658	12017	17	14	14	7019	7120	12519	12864		TBD	79242
Gross Cost	197.6	26.1	5.3	6.5	6.6	31.5	32.7	49.9	48.2	44.8	288.0	737.2
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	197.6	26.1	5.3	6.5	6.6	31.5	32.7	49.9	48.2	44.8	288.0	737.2
Initial Spares												
Total Proc Cost	197.6	26.1	5.3	6.5	6.6	31.5	32.7	49.9	48.2	44.8	288.0	737.2
Flyaway U/C												
Wpn Sys Proc U/C												

DESCRIPTION:
 The Navstar Global Positioning System (GPS) is a passive space based radio positioning and navigation system that provides position, velocity and time information to a user in three dimensions to 16 meters Spherical Error Probable (SEP). GPS User Equipment (UE) is a family of receivers that meet DoD requirements for Selective Availability and Anti-Spoofing, provides the users with Precise Positioning Service (PPS), and is designed to accommodate the differing dynamic user environments to include handheld as well as host platforms. The Army acquisition strategy is to procure a mix of Non-Developmental Item (NDI) equipment that will satisfy all user/platform requirements while enforcing standardization in accordance with DoD policy. Current Army GPS UE includes the Miniaturized Airborne GPS Receiver (MAGR), (a NDI 5-channel set for Signal Warfare aircraft); the Precision Lightweight GPS Receiver (PLGR), (a NDI receiver for ground users and host vehicles); and the Stand Alone Air GPS Receiver (SAGR) and the Cargo Utility GPS Receiver (CUGR), (satisfy Army requirements for low dynamic Army aviation in the non-modernized fleet). Future Army GPS UE will include the Defense Advanced GPS Receiver (DAGR) (handheld); Miniaturized Airborne GPS Receiver 2000 (MAGR 2000); GPS Receiver Applications Module (GRAM) (embedded); and GPS/Inertial Navigation System (GPS/INS) (GPS with INS back-up). This new UE is scheduled for fielding to the Army during the FY01-FY06 timeframe and will include significant anti-jam and anti-spoof capabilities as a result of the ongoing Navigation Warfare (NAVWAR) Program.

JUSTIFICATION:
 The FY-00 program will support Army participation in the joint service efforts to enhance GPS receiver anti-jam and anti-spoof capabilities under the Navigation Warfare Program. The FY-01 program will allow for the procurement of the Defense Advanced GPS Receiver (DAGR) and a limited number of Miniaturized Airborne GPS Receivers 2000 (MAGR 2000); additionally it will fund for the Precision Lightweight GPS Receiver (PLGR) re-utilization.

Exhibit P-5, Weapon OPA Cost Analysis		Appropriation/ Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment			P-1 Line Item Nomenclature: NAVSTAR GLOBAL POSITIONING SYSTEM (SPACE (K47800))			Weapon System Type:			Date: February 1999			
OPA Cost Elements		ID	FY 98			FY 99			FY 00			FY 01		
		CD	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
			\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000
Hardware:														
1. Defense Advanced GPS Receiver												18821	8182	2
2. Miniaturized Airborne GPS Receiver 2000												294	14	21
Defense Advanced GPS Receiver Source Selection						463								
Re-utilization and Software Upgrade - Precision Lightweight GPS Receiver												2366		
Engineering Support:														
Service Support Contracts			1769			2300			2600			3814		
Government In-House Integration Engineering			1636			1260			1400			1696		
						400			265			1000		
Test and Evaluation						420			395					
Total Package Fielding			316			184			122			1000		
Technical/Logistics Support			240			200			375			926		
Program Management Administration			1300			1300			1400			1585		
TOTAL			5261			6527			6557			31502		

Exhibit P-5a, Budget Procurement History and Planning

Date:
February 1999

Appropriation / Budget Activity/Serial No:
OTHER PROCUREMENT / 2 / Communications and Electronics
Equipment

Weapon System Type:

P-1 Line Item Nomenclature:
NAVSTAR GLOBAL POSITIONING SYSTEM (SPACE (K47800)

WBS Cost Elements: Fiscal Years	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY Each	Unit Cost \$000	Specs Avail Now?	Date Revsn Avail	RFP Issue Date
Hardware:										
1. Defense Advanced GPS Receiver FY 01	TBS	FFP-ID/IQ	USAF, Los Angeles AFB	Jun-O1	Jan-O2	8182	2	Yes		Apr 99
2. Miniaturized Airborne GPS Receiver FY 01	Raytheon Co, Marlborough, MA	FFP-ID/IQ	USAF, Los Angeles AFB	Oct-OO	Apr-O1	14	21	Yes		Jul 98

REMARKS: DAGR - RFP Release 1 Apr 99; Army initial full scale production buy - Jun 01
MAGR - Basic Contract Award Sep 98; first delivery Apr 99 for Navy requirement

Exhibit P-40, Budget Item Justification Sheet

Date: February 1999

Appropriation / Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment
 P-1 Item Nomenclature: GROUND COMMAND POST (BC4001)

Program Elements for Code B Items: Code: Other Related Program Elements:

	Prior Years	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	To Complete	Total Prog
Proc Qty												
Gross Cost	6.7	0.7	0.6									8.0
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	6.7	0.7	0.6									8.0
Initial Spares												
Total Proc Cost	6.7	0.7	0.6									8.0
Flyaway U/C												
Wpn Sys Proc U/C												

DESCRIPTION:
 Milstar Ground Command Post Terminals (GNDCP) - AN/FRC-181(V1) (fixed) and AN/TRC-194(V1) (transportable) terminals provide survivable, worldwide two-way anti-jam, and enduring voice and data communications. The Extremely High Frequency/Ultra High Frequency (EHF/UHF) command post terminals are designed for use with communications satellites which provide the next generation military satellite communications systems. GNDCP terminals are designed for high capacity command post operation to include a mission control segment interface, emergency action message dissemination, force direction, CINCNET operations, and full beam management. A contract for the remaining terminals was awarded in May 93 by the USAF. These terminals will be deployed for command, control, and special user missions, and will be operated and maintained by the Army. A total of seven (7) terminals were procured by the USAF for the Army and will be integrated into the Army Force Structure.

JUSTIFICATION:
 Delivery of the US Air Force procured terminals to the Army for integration into the Army force structure began in Nov 93. The first Army terminal (Fort McPherson, GA) was accepted by the Army for operation in Feb 95. This project has been synchronized with and is in support of the Milstar Low Data Rate (LDR) spacecraft launches. This terminal will be operated and maintained by Army personnel to support CINC and NCA missions.

Exhibit P-40, Budget Item Justification Sheet

Date: February 1999

Appropriation / Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment
 P-1 Item Nomenclature: SMART-T (SPACE) (BC4002)

Program Elements for Code B Items: 0303142A
 Code: B
 Other Related Program Elements:

	Prior Years	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	To Complete	Total Prog
Proc Qty				45	77	44						166
Gross Cost	51.4	33.1	20.7	57.4	61.8	46.8	19.6	12.7	32.9	20.2	12.3	368.9
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	51.4	33.1	20.7	57.4	61.8	46.8	19.6	12.7	32.9	20.2	12.3	368.9
Initial Spares		1.6	1.0	1.4		2.7	2.6	2.0	1.4	1.2		13.9
Total Proc Cost	51.4	34.7	21.7	58.8	61.8	49.5	22.2	14.7	34.3	21.4	12.3	382.8
Flyaway U/C	2.4	1.3	N/A	1.2	0.7	0.9						
Wpn Sys Proc U/C	2.6	1.4	N/A	1.3	0.8	1.1						

DESCRIPTION:

SMART-T is a multi-channel satellite terminal required to support a Force Projection Army. It will provide range extension capability to the Army's Mobile Subscriber Equipment (MSE), a critical requirement demonstrated during Operation Desert Storm. Specifically, SMART-T will provide a satellite interface to permit uninterrupted voice/data communications as our advancing forces move beyond the MSE Line of Sight capability. These terminals will triple the battlefield capability with respect to Command, Control and Communications. SMART-T will provide connectivity between selected MSE Node Centers (NC), Large Extension Nodes (LEN), Small Extension Nodes (SEN), and Remote Radio Access Units (RAU), to support Echelons Corps and Below as well as Special Contingency Operations, and communicate with other service Milstar terminals. It will transmit in Extremely High Frequency (EHF) band and will receive in Super High Frequency (SHF) band. The terminal will operate at both Medium Data Rate (MDR) and Low Data Rate (LDR). It will be capable of unattended operation. SMART-T will have the inherent capability of low probability of interception and low probability of detection (LPI/LPD) to avoid being targeted for destruction, jamming, or eavesdropping. SMART-T is interoperable with all other Milstar terminals and is interoperable with Milstar, Navy UHF Follow-on and any MIL-STD-1582C compatible payloads.

JUSTIFICATION:

FY00 funds procure 77 and FY01 funds procure 44 Full Rate Production (FRP) terminals and associated failure-free warranty for the US Army; completes Total Package Fielding of Low Rate Initial Production (LRIP) terminals to US Army; procures contractor logistics, fielding and training support services; conducts Milstar Intersegment Tests; acquire 7 Milstar Voice Conferencing terminals for the White House Communications Agency (WHCA). The SMART-T acquisition strategy was developed to optimize the fullest on-orbit capability of the Milstar Medium Data Rate (MDR) payload. The SMART-T will be the only fielded Milstar MDR capable ground terminal at the time of satellite launch.

Exhibit P-5, Weapon OPA Cost Analysis		Appropriation/ Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment			P-1 Line Item Nomenclature: SMART-T (SPACE) (BC4002)			Weapon System Type:			Date: February 1999			
OPA Cost Elements		ID	FY 98			FY 99			FY 00			FY 01		
		CD	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
			\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000
SMART-T														
Contract Terminal Cost			6378			40627	45	903	44193	77	574	29881	44	679
Engineering Support			3240			2500			1682			1487		
Milstar Voice Conferencing												4600		
Data						102			84			187		
System Project Mgmt/Gov't			6387			5810			5360			5360		
System Test & Evaluation			3675			6815			8849			2730		
GFE						771			1342			781		
Fielding			1048			745			251			1808		
TOTAL			20728			57370			61761			46834		
NOTE: Contract Terminal Cost element includes recurring & non-recurring costs and Contractor Systems Project Mgmt, Engineering Change Proposals, and Modifications.														

Exhibit P-5a, Budget Procurement History and Planning

Date: February 1999

Appropriation / Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment		Weapon System Type:			P-1 Line Item Nomenclature: SMART-T (SPACE) (BC4002)					
WBS Cost Elements: Fiscal Years	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY Each	Unit Cost \$000	Specs Avail Now?	Date Revsn Avail	RFP Issue Date
SMART-T										
FY96	Raytheon Co., Marlborough, MA	C/FP	CECOM	Feb-96	Mar-98	20	1374	Yes		
FY97	Raytheon Co., Marlborough, MA	FP/OPT	CECOM	Dec-96	Dec-98	23	894	Yes		
FY99	Raytheon Co., Marlborough, MA	FP/OPT	CECOM	Jan-99	Apr-00	45	903	Yes		
FY00	Raytheon Co., Marlborough, MA	FP/OPT	CECOM	Nov-99	Apr-01	77	574	Yes		
FY01	Raytheon Co., Marlborough, MA	FP/OPT	CECOM	Nov-00	Apr-02	44	679	Yes		

REMARKS:

- | | | |
|---|---|--|
| <p>1) FY96 & FY97 - LRIP</p> <p>2) PB FY00 procures 313 Joint Service requirements:</p> <ul style="list-style-type: none"> - Army = 209 - USAF = 73 - JCSE = 6 - USMC = 25 Total 313 | <p>3) No terminals procured in FY98; funds procure contractor time and material support of fielding, logistics test support, and training activities.</p> | |
|---|---|--|

FY 2000 / 2001 BUDGET PRODUCTION SCHEDULE						P-1 Item Nomenclature: SMART-T (SPACE) (BC4002)															Date: February 1999																																																				
COST ELEMENTS						Fiscal Year 98															Fiscal Year 99															L A T E R																																					
						Calendar Year 98															Calendar Year 99																																																				
						O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S																																												
C	O	E	A	E	A	P	A	U	U	U	E	C	O	E	A	E	A	P	A	U	U	U	E																																																		
T	V	C	N	B	R	R	Y	N	L	G	P	T	V	C	N	B	R	Y	N	L	G	P	T																																																		
SMART-T																																																																									
	1	FY96	A	20							8																																																														
	1	FY97	A	23																		1	1	1	1																																																
	1	FY99	A	45																																																																					
	1	FY00	A	77																																																																					
	1	FY01	A	44																																																																					
	1	FY97	AF	9																		1	1	1	1																																																
	1	FY99	AF	20																																																																					
	1	FY00	AF	26																																																																					
	1	FY01	AF	18																																																																					
	1	FY99	JCSE	2																																																																					
	1	FY00	JCSE	2																																																																					
	1	FY01	JCSE	2																																																																					
	1	FY99	MC	24																																																																					
	1	FY00	MC	1																																																																					
TOTAL				313							8																																																														

M F R	NAME / LOCATION	PRODUCTION RATES			REACHED D +	MFR Number	ADMIN LEAD TIME		MFR After 1 Oct.	TOTAL After 1 Oct.	REMARKS	
		MIN.	1-8-5	MAX.			Prior 1 Oct.	After 1 Oct.				
		1	RAYTHEON COMPANY, MARLBOROUGH, MA	2			9	12				
							REORDER		1	16	17	
							INITIAL					
							REORDER					
							INITIAL					
							REORDER					
							INITIAL					
							REORDER					

FY 2000 / 2001 BUDGET PRODUCTION SCHEDULE

P-1 Item Nomenclature:

SMART-T (SPACE) (BC4002)

Date:

February 1999

COST ELEMENTS	MFR	FY	SERV	PROC QTY Each	ACCEP. PRIOR TO 1 OCT	BAL DUE AS OF 1 OCT	Fiscal Year 00												Fiscal Year 01												LATE
							Calendar Year 00						Calendar Year 01						Calendar Year 01												
							OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	
SMART-T																															
	1	FY96	A	20	20																										
	1	FY97	A	23	17	6	3	3																							
	1	FY99	A	45		45						7	7	7	7	7	7	3													
	1	FY00	A	77		77															8	8	9	9	9	9	9	25			
	1	FY01	A	44		44																						44			
	1	FY97	AF	9	9																										
	1	FY99	AF	20		20								1	1	4	4	3	3	4											
	1	FY00	AF	26		26																						26			
	1	FY01	AF	18		18																						18			
	1	FY99	JCSE	2		2															1	1									
	1	FY00	JCSE	2		2																						2			
	1	FY01	JCSE	2		2																						2			
	1	FY99	MC	24		24											4	4	4	4	4	4	4								
	1	FY00	MC	1		1																						1			
TOTAL				313	46	267	3	3						7	7	7	7	7	7	8	8	8	8	8	8	8	8	118			

MFR	NAME / LOCATION	PRODUCTION RATES			REACHED D +	MFR Number	ADMIN LEAD TIME		MFR After 1 Oct.	TOTAL After 1 Oct.	REMARKS
		MIN.	1-8-5	MAX.			Prior 1 Oct.	After 1 Oct.			
1	RAYTHEON COMPANY, MARLBOROUGH, MA	2	9	12	1	INITIAL		5	24	29	Acquisition strategy includes: 2yrs Low Rate Initial Production followed by a full year of test in FY98 (Req'd to support MSIII Production decision in FY99); & 3 Full Rate Production Option awards.
						REORDER		1	16	17	
						INITIAL					
						REORDER					
						INITIAL					
						REORDER					
						INITIAL					
						REORDER					

Exhibit P-40, Budget Item Justification Sheet

Date: February 1999

Appropriation / Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment
 P-1 Item Nomenclature: SCAMP (SPACE) (BC4003)

Program Elements for Code B Items: Code: A Other Related Program Elements:

	Prior Years	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	To Complete	Total Prog
Proc Qty												
Gross Cost	20.1	14.4	13.7	4.7	5.0	4.3	1.6	1.2	1.4	1.2	0.0	67.6
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	20.1	14.4	13.7	4.7	5.0	4.3	1.6	1.2	1.4	1.2	0.0	67.5
Initial Spares												
Total Proc Cost	20.1	14.4	13.7	4.7	5.0	4.3	1.6	1.2	1.4	1.2	0.0	67.5
Flyaway U/C												
Wpn Sys Proc U/C												

DESCRIPTION:
 The SCAMP BLK I Terminal will provide a manportable, four simultaneous channel, full duplex data/half duplex voice communications and data transfer system at 2400 bps each. These satellite terminals are to be employed by units that require range extension for command and control communications. Block I will provide priority tactical ground users with the capability to transmit and receive intelligence, command, and control traffic from a base station. It will transmit in the Extremely High Frequency (EHF) band and receive in the Super High Frequency (SHF) band. It will provide Low Data Rate (LDR) secure voice at 2400 bps and secure data at 75-2400 bps, as well as interface with Common Hardware/Software devices such as the Lightweight Computer Units and the Hand-Held Terminal Unit. The SCAMP BLK I will be fully interoperable within the Army C4I Technical Architecture. The terminal will have embedded COMSEC and TRANSEC with set-up and tear-down in less than 10 minutes. In addition to operation on Milstar satellites, the SCAMP BLK I will operate on all satellites which utilize the MIL-STD-1582C/D LDR waveform. It will be required to operate in environmental conditions that include smoke, aerosol, rain, fog, snow, haze and dust, and must operate in the transmit, receive or stand-by mode throughout an entire mission (typically 30 days). SCAMP BLK I is the first EHF manportable terminal and provides direct support to the tactical warfighter mobile forces with greater anti-jam protection, lower probability of intercept, and lower probability of detection.

JUSTIFICATION:
 FY00/01 funds Total Package Fielding (TPF) and New Equipment Training (NET) of Army Block I terminals, supports Joint Intersegment and Warfighter Interoperability Tests, incorporates EHF system level changes, procures Contractor Technical Support contract options and acquires two Milstar Voice Conferencing terminals for the White House Communications Agency (WHCA). Army Block I terminals are designated for Commanders at Division and Above levels. SCAMP Block I provides manportable EHF/LDR communications using the on-orbit satellites, and future launches.

Exhibit P-5, Weapon OPA Cost Analysis		Appropriation/ Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment			P-1 Line Item Nomenclature: SCAMP (SPACE) (BC4003)			Weapon System Type:			Date: February 1999			
OPA Cost Elements		ID	FY 98			FY 99			FY 00			FY 01		
		CD	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
			\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000
Contract Terminal Cost			8389	196	43									
Engineering Support			620			1344			1023			1004		
System Project Mgmt Gov't			1551			782			774			760		
System Test			451			920			475			450		
Training			546						200					
Fielding			2155			1650			2061			2078		
Milstar Voice Conferencing									500					
TOTAL			13712			4696			5033			4292		

Exhibit P-5a, Budget Procurement History and Planning

Date: February 1999

Appropriation / Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment		Weapon System Type:			P-1 Line Item Nomenclature: SCAMP (SPACE) (BC4003)					
WBS Cost Elements: Fiscal Years	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY Each	Unit Cost \$000	Specs Avail Now?	Date Revsn Avail	RFP Issue Date
Hardware										
FY96	Rockwell Collins, Richardson, TX	C/FFP	CECOM	Feb-96	Sep-98	57	196	Yes		
FY97	Rockwell Collins, Richardson, TX	FFP/Opt	CECOM	Dec-96	Jan-00	93	78	Yes		
FY 98	Rockwell Collins, Richardson, TX	FFP/Opt	CECOM	Mar-98	Dec-00	196	43	Yes		

REMARKS: Multi-Service Procurement of a total of 516 SCAMP BLK I
 - Army = 346
 - USAF = 154
 - JCSE = 8
 - Army INSCOM = 6
 - WHCA = 2

FY 2000 / FY 2001 BUDGET PRODUCTION SCHEDULE							P-1 Item Nomenclature: SCAMP (SPACE) (BC4003)												Date: February 1999																																			
COST ELEMENTS	MFR	FY	SERV	PROC QTY Each	ACCEP. PRIOR TO 1 OCT	BAL DUE AS OF 1 OCT	Fiscal Year 00												Fiscal Year 01											LATER																								
							Calendar Year 00												Calendar Year 01																																			
							OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG		SEP																							
Hardware	1	FY 96	A	57	42	15	13	2																																														
	1	FY 97	A	93	0	93								19	17	15	2	5	6						7	18	4																											
	1	FY 96	AF	55	8	47	2	15	22																																													
	1	FY 97	AF	99	0	99							2		2	4	5	6	17	22	22		15	4																														
	1	FY 96	JCS	8	0	8												8																																				
	1	FY 97	A	2	0	2										2																																						
	1	FY 98	A	196	0	196																		18	22	21	20	22	22	18	19	22	12																					
	1	FY 98	A	4	0	4																		4																														
	1	FY00	W	2	0	2									A																																							
				516	50	466	15	17	22	21	17	17	22	12	12	17	22	22	22	22	22	26	22	21	20	22	22	18	19	22	14																							
MFR							OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP																								
							PRODUCTION RATES				REACHED	MFR Number	ADMIN LEAD TIME		MFR	TOTAL	REMARKS																																					
							MIN.	1-8-5	MAX.	D +			Prior 1 Oct.	After 1 Oct.	After 1 Oct.	After 1 Oct.																																						
1							15	40	80		1	INITIAL	10	4	31	35	- Fielding priorities subject to JCS coordination and may change service deliveries - Option 2 (Qty 200) - Mar98 - Monthly spares production not included in totals. W - White House Communications Agency																																					
												REORDER		2	27	29																																						
												INITIAL																																										
												REORDER																																										
												INITIAL																																										
												REORDER																																										

Exhibit P-40, Budget Item Justification Sheet

Date: February 1999

Appropriation / Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment
 P-1 Item Nomenclature: GLOBAL BRDCST SVC - GBS (BC4120)

Program Elements for Code B Items: Code: Other Related Program Elements:

	Prior Years	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	To Complete	Total Prog
Proc Qty												
Gross Cost	0.0	0.0	7.3	5.9	10.9	9.4	21.7	23.0	10.1	14.2	0.0	102.5
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	0.0	0.0	7.3	5.9	10.9	9.4	21.7	23.0	10.1	14.2	0.0	102.5
Initial Spares												
Total Proc Cost	0.0	0.0	7.3	5.9	10.9	9.4	21.7	23.0	10.1	14.2	0.0	102.5
Flyaway U/C												
Wpn Sys Proc U/C												

DESCRIPTION:
 Global Broadcast Service (GBS) is a joint service program that responds to the need for a high-speed, one-way broadcast of high volume multi-media information such as imagery, maps, weather data, logistics, air tasking orders, etc., to users worldwide. GBS is an integral part of the Defense Information Infrastructure (DII) and a part of the overall DoD Milsatcom architecture. The DoD GBS initiative was formalized by a Joint Acquisition Decision Memorandum, 27 Mar 96. The Army is the GBS Joint Project Office's (JPO) Integrated Product Team (IPT) lead for the Fixed Ground Receive Suites (FGRS) and Transportable Ground Receive Suites (TGRS) acquisition for all users. The Army is also the JPO IPT lead for the Theater Injection Points (TIP).

The GBS TGRS consist of a small satellite tracking and receiving antenna which receives and demodulates the RF downlink signal into a bit stream for receive broadcast management computer to decrypt and distribute to end users. An in-theater injection capability via Theater Injection Points (TIPs) will be designed to broadcast vital Commander in Chief (CINC)/ Commander Joint Task Force (CJTF) in-theater information to in-theater TGRS. The Army's total objective is a total of three TIPs and 504 TGRS.

JUSTIFICATION:
 FY00 funds will procure 40 TGRS and the Army's second TIP which will be fielded to PACOM. FY 01 funds will procure 14 TGRS plus the third TIP which will be fielded to EUCOM. The need for the GBS communication system was validated by the Joint Requirements Oversight Committee (JROC) in a Joint Mission Need Statement, dated 3 Aug 95, and Joint Operational Requirements Document, dated 7 Apr 97. The GBS Phase II concept was validated by use of a GBS Phase I demonstration system in support of the Bosnia peace mission and Joint Warfighting Interoperability Demonstration (JWID) 95.

Exhibit P-5, Weapon OPA Cost Analysis		Appropriation/ Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment			P-1 Line Item Nomenclature: GLOBAL BRDCST SVC - GBS (BC4120)			Weapon System Type:			Date: February 1999			
OPA Cost Elements		ID	FY 98			FY 99			FY 00			FY 01		
		CD	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
			\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000
Receive Suite (H/W, S/W) TRS Config 3									1310	10	131	1212	9	135
TRS Config 2					367	6	61	1860	30	62	308	5	62	
Theater Injection Pt. (TIP) (HW/SW) TIP ECP			2953	1	2953	1895			3081	1	3081	3148	1	3148
GFE						84			732			345		
Engineering			2097			420			350			270		
Government Progrm Mgt			515			627			538			545		
Data, Logistics, Training, Support Equipment			1719			1013			1002			1060		
Test						474			526			166		
ECO's						324			304			235		
Fielding						652			1217			2063		
TOTAL			7284			5856			10920			9352		

Exhibit P-5a, Budget Procurement History and Planning

Date: February 1999

Appropriation / Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment
 Weapon System Type:
 P-1 Line Item Nomenclature: GLOBAL BRDCST SVC - GBS (BC4120)

WBS Cost Elements: Fiscal Years	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY Each	Unit Cost \$000	Specs Avail Now?	Date Revsn Avail	RFP Issue Date
TIP (FY98)	Raytheon, Reston, VA	CPAF/OPT	USAF, GBS JPO, LA CA	Mar-98	Apr-00	1	2953	YES		
TIP (FY00)	Raytheon, Reston, VA	CPAF/OPT	USAF, GBS JPO, LA CA	Dec-99	Feb-01					
TIP (FY01)	Raytheon, Reston, VA	CPAF/OPT	USAF, GBS JPO, LA CA	Dec-00	Feb-02					
Receive Suite Config 2 (H/W, S/W) FY 1999	Raytheon, Reston, VA	CPAF/OPT	USAF, GBS JPO, LA CA	Mar-99	Aug-00	6	61	YES		
FY 2000	Raytheon, Reston, VA	CPAF/OPT	USAF, GBS JPO, LA CA	Dec-99	May-01					
FY 2001	Raytheon, Reston, VA	CPAF/OPT	USAF, GBS JPO, LA CA	Dec-00	Jun-01					
Receive Suite Config 3 (H/W, S/W) FY 2000	Raytheon, Reston, VA	CPAF/OPT	USAF, GBS JPO, LA CA	Aug-00	May-01	10	131			
FY 2001	Raytheon, Reston, VA	CPAF/OPT	USAF, GBS JPO, LA CA	Dec-00	Jun-01	9	135			

REMARKS: TGRS - Transportable Ground Receive Suite
 TIP - Theater Injection Point

FY 2000 / FY 2001 BUDGET PRODUCTION SCHEDULE

P-1 Item Nomenclature: GLOBAL BRDCST SVC - GBS (BC4120)

Date: February 1999

COST ELEMENTS	MFR	FY	SERV	PROC QTY Each	ACCEP. PRIOR TO 1 OCT	BAL DUE AS OF 1 OCT	Fiscal Year 98												Fiscal Year 99												L A T E R		
							Calendar Year 98						Calendar Year 99						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			
Theater Injections Point (TIP)	1	98	Army	1	0	1																										1	
Receive Suite (H/W, S/W)																																	
TGRS Config 2	2	99	Army	6	0	6																										6	
Receive Suite (H/W, S/W)																																	
TGRS Config 3	2	00	Army	10	0	10																										10	
TGRS Config 2	2	00	Army	30	0	30																										30	
TIP (FY00)	1	00	Army	1	0	1																										1	
Receive Suite (H/W, S/W)																																	
TGRS Config 3	2	01	Army	9	0	9																										9	
TGRS Config 2	2	01	Army	5	0	5																										5	
TIP (FY01)	1	01	Army	1	0	1																										1	
TOTAL				63		89																										89	

MFR	NAME / LOCATION	PRODUCTION RATES			REACHED	MFR Number	ADMIN LEAD TIME		MFR After 1 Oct.	TOTAL After 1 Oct.	REMARKS	
		MIN.	1-8-5	MAX.			D +	Prior 1 Oct.				After 1 Oct.
1	Raytheon (S-tel Colorado Springs, CO)	1	2	4		1	INITIAL	5	5	25	30	GBS Joint Program Office Contract Award Nov 97 Production line shared with other services
							REORDER		3	14	17	
2	Raytheon, Fort Wayne, IN	10	20	30		2	INITIAL		3	17	20	
							REORDER		3	15	18	
							INITIAL					
							REORDER					
							INITIAL					
							REORDER					
							INITIAL					
							REORDER					

FY 2000 / FY 2001 BUDGET PRODUCTION SCHEDULE

P-1 Item Nomenclature: GLOBAL BRDCST SVC - GBS (BC4120)

Date: February 1999

COST ELEMENTS	MFR	FY	SERV	PROC QTY Each	ACCEP. TO 1 OCT	BAL DUE AS OF 1 OCT	Fiscal Year 00												Fiscal Year 01												LATER	
							Calendar Year 00												Calendar Year 01													
							OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP		
Theater Injection Point (TIP)	1	98	Army	1	0	1								1																		
Receive Suite (HW, S/W)																																
TGRS Config 2	2	99	Army	6	0	6								6																		
Receive Suite (H/W, S/W)																																
TGRS Config 3	2	00	Army	10	0	10								A														4	6			
TGRS Config 2	2	00	Army	30	0	30			A				7	7	7													3	6			
TIP (FY00)	1	00	Army	1	0	1			A														1									
Receive Suite (H/W, S/W)																																
TGRS Config 3	2	01	Army	9	0	9																							3	4	2	
TGRS Config 2	2	01	Army	5	0	5																							2	3		
TIP (FY01)	1	01	Army	1	0	1																									1	
				63		63								7	7	7	7							1				7	17	7	2	1

MFR	NAME / LOCATION	PRODUCTION RATES			REACHED D +	MFR Number	ADMIN LEAD TIME		MFR After 1 Oct.	TOTAL After 1 Oct.	REMARKS		
		MIN.	1-8-5	MAX.			Prior 1 Oct.	After 1 Oct.					
1	Raytheon (S-tel Colorado Springs, CO)	1	2	4		1	INITIAL	5	5	25	30	GBS Joint Program Office Contract Award Nov 97 Production line shared with other services	
							REORDER			3	14		17
						2							2
	REORDER			3	15								18
							INITIAL						
							REORDER						
							INITIAL						
							REORDER						
							INITIAL						
							REORDER						
							INITIAL						
							REORDER						

FY 2000 / FY 2001 BUDGET PRODUCTION SCHEDULE							P-1 Item Nomenclature: GLOBAL BRDCST SVC - GBS (BC4120)												Date: February 1999												
COST ELEMENTS	M F R	FY	S E R V	PROC QTY Each	ACCEP. PRIOR TO 1 OCT	BAL DUE AS OF 1 OCT	Fiscal Year 02						Fiscal Year 03						L A T E R												
							Calendar Year 02													Calendar Year 03											
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P		O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P
Theater Injection Point (TIP)	1	98	Army	1	1																										
Receive Suite (HW, S/W) TGRS Config 2	2	99	Army	6	6																										
Receive Suite (H/W, S/W) TGRS Config 3 TGRS Config 2	2	00	Army	10	10																										
TIP (FY00)	1	00	Army	1	1																										
Receive Suite (H/W, S/W) TGRS Config 3 TGRS Config 2	2	01	Army	9	9																										
TIP (FY01)	1	01	Army	1	0	1				1																					
										1																					
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	
M F R	NAME / LOCATION	PRODUCTION RATES			REACHED D +	MFR Number	ADMIN LEAD TIME		MFR After 1 Oct.	TOTAL After 1 Oct.	REMARKS																				
		MIN.	1-8-5	MAX.			Prior 1 Oct.	After 1 Oct.																							
1	Raytheon (S-tel Colorado Springs, CO)	1	2	4	1	INITIAL	5	5	25	30	GBS Joint Program Office Contract Award Nov 97																				
						REORDER		3	14	17																					
					2	INITIAL		3	17	20																					
	2 Raytheon, Fort Wayne, IN	10	20	30		REORDER		3	15	18																					
						INITIAL																									
						REORDER																									
						INITIAL																									
						REORDER																									
						INITIAL																									
						REORDER																									

Exhibit P-40, Budget Item Justification Sheet

Date: February 1999

Appropriation / Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment
 P-1 Item Nomenclature: MOD OF IN-SVC EQUIP (TAC SAT) (BB8417)

Program Elements for Code B Items: Code: Other Related Program Elements:

	Prior Years	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	To Complete	Total Prog
Proc Qty												
Gross Cost	251.7	5.4	1.9	1.5	0.5	0.0	0.0	0.0	0.0	0.0	0.0	261.0
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	251.7	5.4	2.0	1.5	0.5	0.0	0.0	0.0	0.0	0.0	0.0	261.0
Initial Spares												
Total Proc Cost	251.7	5.4	2.0	1.5	0.5	0.0	0.0	0.0	0.0	0.0	0.0	261.0
Flyaway U/C												
Wpn Sys Proc U/C												

DESCRIPTION: This program will provide a tactical satellite communications capability to meet critical Ground Mobile Forces (GMF) Command, Control and Communication (C3) needs not satisfied by conventional terrestrial communications systems. The (GMF) are those components of the Army, Navy, Air Force, Marine Corps, Special Operations Forces and Joint Communications Support Element engaged in land, tactical air combat and amphibious operations ranging from single-service crisis missions to mutually supportive joint-service combat scenarios. Mod Of In-Svc Equipment (TACSAT) funds the upgrades to Army tactical satellite communications equipment.

JUSTIFICATION: The FY00 funds will be used to manage and field prior year procurements of Lightweight High Gain X-Band Antennas (LHGXA). This program will allow the warfighter access to the Defense Satellite Communications System in support of reach-back communications requirements for power projection. This is in line with the continued upgrades of Army tactical satellite communications equipment.

Exhibit P-40, Budget Item Justification Sheet

Date: February 1999

Appropriation / Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment
 P-1 Item Nomenclature: GLOBAL CMD & CONTROL SYSTEM-ARMY (GCCS-A) (BA8250)

Program Elements for Code B Items: Code: Other Related Program Elements:

	Prior Years	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	To Complete	Total Prog
Proc Qty												
Gross Cost	28.3	20.7	15.1	20.5	13.0	8.5	6.3	6.3	8.4	30.0	81.0	238.1
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	63.7	20.7	15.1	20.5	13.0	8.5	6.3	6.3	8.4	30.0	81.0	273.5
Initial Spares												
Total Proc Cost	63.7	20.7	15.1	20.5	13.0	8.5	6.3	6.3	8.4	30.0	81.0	273.5
Flyaway U/C												
Wpn Sys Proc U/C												

DESCRIPTION: The Global Command and Control System-Army (GCCS-A) provides the Army's interface to Joint Staff Global Command and Control System (GCCS) program. GCCS-A is being implemented in accordance with the GCCS concept of Defense Information Infrastructure Common Operating Environment (DII COE) and the Army Battle Command System (ABCS) Operational Requirements Document (ORD). The GCCS-A is the integration of software, hardware and communication architecture supporting strategic and tactical environments. The software development requirements for GCCS-A will be satisfied through a single systems engineering and integration contract which was awarded in December 1994. The intent is to field an integrated command and control (C2) system that provides standard, modular, system support and application software support capable of providing a "tailored" set of functional applications and compatible, integrated exchange of data both horizontally and vertically throughout the Army hierarchy. This will accommodate a flexible, interoperable C2 system that can be tailored for various levels of command and will ensure connectivity. GCCS-A will support operations during peace as well as war including contingency and natural disaster operations. It will support major Army commands (MACOMS), Army Commanders in Chiefs (CINCs), Army Commands and Components, and Army elements within the Pentagon. The GCCS-A will support all staff sections within a headquarters, and all phases of conflict. Hardware fielding efforts through FY 00 will focus on equipping all Army-managed worldwide C2 sites. Beginning in FY 01, emphasis will be on upgrading previously fielded hardware to ensure consistency and compatibility with current technologies.

JUSTIFICATION: FY 00/01 funds will support the procurement and fielding of GCCS-A at all Army-managed worldwide command and control sites. Fielding of GCCS-A is mandatory in order for the Army to remain in lock step with GCCS milestones, and support the Army Battle Command System.

Exhibit P-5, Weapon OPA Cost Analysis		Appropriation/ Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment			P-1 Line Item Nomenclature: GLOBAL CMD & CONTROL SYSTEM-ARMY (GCCS-A) (BA8250)			Weapon System Type:			Date: February 1999		
OPA Cost Elements	ID CD	FY 98			FY 99			FY 00			FY 01		
		TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000
1. Sun Enterprise 4000/4500	A				700	2	350	724	2	362			
2. Ultra 2 LAN Servers		589	17	35	4860	108	45	2021	43	47	196	4	49
3. Ultra (V2) Servers		158	3	53	325	5	65	335	5	67			
4. Sun Ultra 5 Workstations (Upgrade Sun Sparc 5)					1520	380	4	768	192	4	192	48	4
5. PC (Pentium Class) User Workstations		731	199	4	1648	412	4	632	158	4	40	10	4
6. Bill of Material (BOM)*		3508			284			228			62		
7. Fielding (LMC)		1828			2329			2299			2741		
8. Fielding (Wang/FCBS)		817			1015			1015			1035		
9. PMO Fielding Support		3000			3000			2915			2871		
10. First Digitized Division/Corps		1483			1315			1276			1389		
11. GCCS-A Training Support		2287			3509			750					
12. GCCS to Corps		678											
TOTAL		15079			20505			12963			8526		
*Site-unique hardware required to support installation and fielding. Includes LAN cables, racks, routers, etc.													

Exhibit P-5a, Budget Procurement History and Planning

Date: February 1999

Appropriation / Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment				Weapon System Type:		P-1 Line Item Nomenclature: GLOBAL CMD & CONTROL SYSTEM-ARMY (GCCS-A) (BA8250)					
WBS Cost Elements: Fiscal Years	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY Each	Unit Cost \$000	Specs Avail Now?	Date Revsn Avail	RFP Issue Date	
1. Sun Enterprise 4000											
FY 99	GTE, Taunton, MA	IDIQ	CECOM	Feb-99	Jun-99	2	350	YES			
FY 00	GTE, Taunton, MA	IDIQ	CECOM	Feb-00	Jun-00	2	362	YES			
2. Ultra 2 Servers											
FY 98	ICASE, Maxwell AFB, AL	IDIQ	Maxwell AFB, AL	Feb-98	May-98	17	35	YES			
FY 99	ICASE, Maxwell AFB, AL	IDIQ	Maxwell AFB, AL	Feb-99	May-99	108	45	YES			
FY 00	ICASE, Maxwell AFB, AL	IDIQ	Maxwell AFB, AL	Feb-00	May-00	43	47	YES			
FY01	ICASE, Maxwell AFB, AL	IDIQ	Maxwell AFB, AL	Feb-01	May-01	4	49	YES			
3. Ultra (V2) Servers											
FY 98	GTE, Taunton, MA	C/OPTION	CECOM	Feb-98	Jun-98	3	53	YES			
FY 99	GTE, Taunton, MA	C/OPTION	CECOM	Feb-99	Jun-99	5	65	YES			
FY 00	GTE, Taunton, MA	C/OPTION	CECOM	Feb-00	Jun-00	5	67	YES			
4. Sun Ultra 5 Workstations											
FY 99	GTE, Taunton, MA	C/OPTION	CECOM	Feb-99	Jun-99	380	4	YES			
FY 00	GTE, Taunton, MA	C/OPTION	CECOM	Feb-00	Jun-00	192	4	YES			
FY 01	GTE, Taunton, MA	C/OPTION	CECOM	Feb-01	Jun-01	48	4	YES			
5. PC (Pentium Class) User Workstations											
FY 98	GTSI, Chantilly, VA	IDIQ	FEDSIM/FT Huachuca	Feb-98	Apr-98	199	4	YES			
FY 99	GTSI, Chantilly, VA	IDIQ	FEDSIM/FT Huachuca	Feb-99	Apr-99	412	4	YES			
FY 00	GTSI, Chantilly, VA	IDIQ	FEDSIM/FT Huachuca	Feb-00	Apr-00	158	4	YES			
FY 01	GTSI, Chantilly, VA	IDIQ	FEDSIM/FT Huachuca	Feb-01	Apr-01	10	4	YES			

REMARKS:

Exhibit P-40, Budget Item Justification Sheet

Date: February 1999

Appropriation / Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment
 P-1 Item Nomenclature: ARMY DATA DISTRIBUTION SYSTEM (BU1400)

Program Elements for Code B Items: Code: Other Related Program Elements:

	Prior Years	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	To Complete	Total Prog
Proc Qty												
Gross Cost	447.0	77.5	64.9	46.9	38.8	38.3	32.2	34.2	60.1	120.7	2500.0	3460.6
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	447.0	77.5	64.9	46.9	38.8	38.3	32.2	34.2	60.1	120.7	2500.0	3460.6
Initial Spares												
Total Proc Cost	447.0	77.5	64.9	46.9	38.8	38.3	32.2	34.2	60.1	120.7	2500.0	3460.6
Flyaway U/C												
Wpn Sys Proc U/C												

DESCRIPTION:

The Army Data Distribution System (ADDS) is a Command, Control, and Communication (C3I) network consisting of the Data Radios Systems: Enhanced Position Location Reporting System (EPLRS), Near Term Digital Radio (NTDR). EPLRS is a direct outgrowth of the Army/United States Marine Corps (USMC) Position Locating Reporting System (PLRS) and provides battlefield commanders combat information on the position of their forces in addition to supporting the majority of the data communication needs of the Army's brigade & below tactical internet as part of the Army's battlefield digitization efforts. EPLRS is the Critical POS/NAV and data communications system in both digitized & non-digitized division & Corps until the FY04 time frame. EPLRS provides secure, jam -resistant, near real time communications support for the Battlefield Functional Areas of the Army and plays a critical role in support of the US Army's initiative to "Digitize the Battlefield" as the backbone communications data pipe at Brigade and Below for FBCB2 and the Tactical Internet. ADDS is essential to support tactical operations on the automated battlefield with reliable, real-time, secure, jam resistant data communications and position location capabilities. It has been designed specifically to meet the data communication requirements of emerging computer and sensor systems.

JUSTIFICATION:

EPLRS: The FY00 and FY01 budgets will allow the Army to procure 1280 (FY00) and 490 (FY01) additional Enhanced PLRS User Unit (EPUU) Radio Sets (RSs) and continue the fielding of prior year hardware procurements to contingency Corps units. The FY00 and FY01 budgets will also provide for New Equipment Training (NET), Installation Kits for Army prepositioned Stock 5 (APS-5) , integration, ECOs, life cycle software engineering and program management support.

Exhibit P-5, Weapon OPA Cost Analysis		Appropriation/ Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment			P-1 Line Item Nomenclature: ARMY DATA DISTRIBUTION SYSTEM (BU 1400)			Weapon System Type:			Date: February 1999			
OPA Cost Elements		ID	FY 98			FY 99			FY 00			FY 01		
		CD	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
			\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000
Enhanced Position Location Reporting System (EPLRS)														
Hardware EPUU RS (1)			30771	1774	17									
Hardware NCS-E(D)			496	1	496							1926	5	385
Hardware, EPUU RT (2)						21866	390	56	11231	1280	9	11380	490	23
Other Hardware						285			8297			2862		
Engineering Support														
Contractor System Engineering			8113			2734			3859			3438		
Government In-House			2178			2161			3424			4940		
Engineering Change Orders (ECOs)			3161			1177			563			568		
Integration/Installation/Retrofit			4733			7322			3285			2949		
Training			669											
Life Cycle Software Engineering			1275			1444			1475			1500		
Tooling, Test Equipment / NR						2529								
Testing			4511			584								
Contractor Project Management			3644			1475			2475			1678		
Project Management Administration			1596			1550			2835			2964		
Data			394											
Total Package Fielding			3369			3792			1319			4105		
TOTAL			64910			46919			38763			38310		
(1) EPUU RS (Radio Set) consists of the Enhanced PLRS User Unit (RT), User Readout Device, Installation Kits, and Power Adapter.														
(2) Hardware EPUU RT cost in FY 99 includes material cost for the FY 00 quantity of 1280.														

Exhibit P-5a, Budget Procurement History and Planning

Date:
February 1999

Appropriation / Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment		Weapon System Type:			P-1 Line Item Nomenclature: ARMY DATA DISTRIBUTION SYSTEM (BU1400)					
WBS Cost Elements: Fiscal Years	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY Each	Unit Cost \$000	Specs Avail Now?	Date Revsn Avail	RFP Issue Date
Enhanced Position Location and Reporting System (EPLRS)	Hughes Aircraft Co. Forest, MS	SS/FFP	CECOM		Sep-97	Jan-99	1100	37	Yes	Mar-97
Hardware EPUU RT					Sep-97	Jan-99	957	12	Yes	
FY 97					Dec-97	Nov-00	817	19	Yes	
FY 98	Raytheon Systems Corp Forest, MS	SS/FFP	CECOM		May-99	Sep-00	390	56	Yes	
Hardware EPUU RT					Jan-00	May-01	1280	9	Yes	
FY 99					Jan-01	May-02	490	23	Yes	
FY 00	CECOM/ C2SID	MIPR	CECOM		Dec-97	Jan-99	1	496	No	NA
Hardware NCS-E (D)					Dec-00	Jan-02	5	385	No	NA
FY 01										

REMARKS: The EPUU Radio Set (RS) consists of the Enhanced PLRS User Unit (RT) , User Readout Device, Installation Kits, and Power Adapter.

The FY 97-FY98 EPUU RS contract was one Multiyear Award in FY 97 for 2057 EPUUs.

Hughes Aircraft Co. is now Raytheon Systems Corp.

C2SID is CECOM's Command and Control Systems Integration Directorate.

FY 00 / 01 BUDGET PRODUCTION SCHEDULE	P-1 Item Nomenclature: ARMY DATA DISTRIBUTION SYSTEM (BU1400)	Date: February 1999
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COST ELEMENTS	MFR	FY	SERV	PROC QTY Each	ACCEP. TO 1 OCT	BAL DUE AS OF 1 OCT	Fiscal Year 98												Fiscal Year 99												LATE							
							Calendar Year 98						Calendar Year 98						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								
Hardware EPUU RT	1	97 & Pr	A	4198	1816	2382	9	18	40	40	51	44	36	49	13																							1357
	1	98	A	817	0	817			A																												817	
Hardware EPUU RT	2	99	A	390	0	390																															390	
	2	00	A	1280	0	1280																															1280	
	2	01	A	490	0	490																															490	
	2	02	A	234	0	234																															234	
	2	03	A	271	0	271																															271	
	2	04	A	477	0	477																															477	
Hardware EPUU RT	1	97 & Pr	AFR	80	0	80																																
	1	98	AFR	48	0	48			A																												48	
	1	97 & Pr	ANG	255	0	255																																
	1	98	ANG	375	0	375			A																												375	
	1	98	M	764	0	764			A																												764	
	1	98	N	31	0	31			A																												31	
Hardware NCS -E(D)	3	97 & Pr	A	19	19																																	
	3	98	A	1	0	1			A																													
	3	01	A	5	0	5																																
	3	02	A	4	0	4																																
	3	03	A	12	0	12																																
Hardware SMP (See remarks)	4	97 & Pr	A	1816	1816																																	

MFR	NAME / LOCATION	PRODUCTION RATES			REACHED D +	MFR Number	ADMIN LEAD TIME		MFR After 1 Oct.	TOTAL After 1 Oct.	REMARKS
		MIN.	1-8-5	MAX.			Prior 1 Oct.	After 1 Oct.			
1	Hughes Aircraft, Forest, Mississippi	20	120	300		1	INITIAL	1	4	16	20
							REORDER	1	5	14	19
2	Raytheon Systems Corp, Forest, Mississippi	20	185	300		2	INITIAL	1	4	16	20
							REORDER	1	5	14	19
3	CECOM C2SID (see Remarks) Fort Monmouth, N.J.	3				3	INITIAL	1	1	16	17
							REORDER	1	5	14	19
4	Hughes Aircraft, Forest, Mississippi	75	180	200		4	INITIAL	1	8	19	27
							REORDER				
							INITIAL				
							REORDER				

COST ELEMENTS	MFR	FY	SERV	PROC QTY Each	ACCEP. TO 1 OCT	BAL DUE AS OF 1 OCT	Fiscal Year 04												Fiscal Year 05												LATER
							Calendar Year 04						Calendar Year 05						Calendar Year 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	
Hardware EPUU RT	1	97 & Pr	A	4198	4198																										
	1	98	A	817	817																										
Hardware EPUU RT	2	99	A	390	390																										
	2	00	A	1280	1280																										
	2	01	A	490	490																										
	2	02	A	234	114	120	20	20	20	20	20	20																			
	2	03	A	271	0	271							20	20	20	20	20	21	30	30	30	20	20	20							
	2	04	A	477	0	477			A																						
Hardware EPUU RT	1	97 & Pr	AFR	80	80																										
	1	98	AFR	48	48																										
	1	97 & Pr	ANG	255	255																										
	1	98	ANG	375	375																										
	1	98	M	764	764																										
	1	98	N	31	31																										
Hardware NCS -E(D)	3	97 & Pr	A	19	19																										
	3	98	A	1	1																										
	3	01	A	5	5																										
	3	02	A	4	4																										
	3	02	A	12	0	12				1	1	1	1	1	1	1	1	1	1	1	1										
Hardware SMP (See remarks)	4	97 & Pr	A	1816	1816																										

MFR	NAME / LOCATION	PRODUCTION RATES			REACHED D +	MFR Number	ADMIN LEAD TIME		MFR After 1 Oct.	TOTAL After 1 Oct.	REMARKS
		MIN.	1-8-5	MAX.			Prior 1 Oct.	After 1 Oct.			
1	Hughes Aircraft, Forest, Mississippi	20	120	300		1	INITIAL	1	4	16	20
							REORDER	1	5	14	19
2	Raytheon Systems Corp, Forest, Mississippi	20	185	300		2	INITIAL	1	4	16	20
							REORDER	1	5	14	19
3	CECOM C2SID (see Remarks) Fort Monmouth, N.J.	3				3	INITIAL	1	1	16	17
							REORDER	1	5	14	19
4	Hughes Aircraft, Forest, Mississippi	75	180	200		4	INITIAL	1	8	19	27
							REORDER				
							INITIAL				
							REORDER				

FY 00 / 01 BUDGET PRODUCTION SCHEDULE	P-1 Item Nomenclature: ARMY DATA DISTRIBUTION SYSTEM (BU1400)	Date: February 1999
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COST ELEMENTS	MFR	FY	SERV	PROC QTY Each	ACCEP. PRIOR TO 1 OCT	BAL DUE AS OF 1 OCT	Fiscal Year 06												Fiscal Year 07												L A T E R
							Calendar Year 06						Calendar Year 07						Calendar Year 07												
							OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	
Hardware EPUU RT	1	97 & Pr	A	4198	4198																										
	1	98	A	817	817																										
Hardware EPUU RT	2	99	A	390	390																										
	2	00	A	1280	1280																										
	2	01	A	490	490																										
	2	02	A	234	234																										
	2	03	A	271	271																										
	2	04	A	477	239	238	40	40	40	40	40	38																			
Hardware EPUU RT	1	97 & Pr	AFR	80	80																										
	1	98	AFR	48	48																										
	1	97 & Pr	ANG	255	255																										
	1	98	ANG	375	375																										
	1	98	M	764	764																										
	1	98	N	31	31																										
Hardware NCS -E(D)	3	97 & Pr	A	19	19																										
	3	98	A	1	1																										
	3	01	A	5	5																										
	3	02	A	4	4																										
	3	03	A	12	12																										
Hardware SMP (See remarks)	4	97 & Pr	A	1816	1816																										

OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

MFR	NAME / LOCATION	PRODUCTION RATES			REACHED D +	MFR Number	ADMIN LEAD TIME		MFR After 1 Oct.	TOTAL After 1 Oct.	REMARKS
		MIN.	1-8-5	MAX.			Prior 1 Oct.	After 1 Oct.			
		1	Hughes Aircraft, Forest, Mississippi	20			120	300			
2	Raytheon Corp, Forest, Mississippi	20	185	300		REORDER	1	5	14	19	
3	CECOM C2SID (see Remarks) Fort Monmouth, N.J.	3				INITIAL	1	4	16	20	
						REORDER	1	5	14	19	
4	Hughes Aircraft, Forest, Mississippi	75	180	200		INITIAL	1	1	16	17	
						REORDER	1	5	14	19	
						INITIAL	1	8	19	27	
						REORDER					
						INITIAL					
						REORDER					

Exhibit P-40, Budget Item Justification Sheet

Date: February 1999

Appropriation / Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment
 P-1 Item Nomenclature: SINCGARS FAMILY (BW0006)

Program Elements for Code B Items: Code: Other Related Program Elements:

	Prior Years	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	To Complete	Total Prog
Proc Qty	152275	31302	32847	5000								221424
Gross Cost	2396.3	311.3	276.5	57.1	13.2	3.0	0.0	0.0	0.0	13.8	0.0	3071.1
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	2396.3	311.3	276.5	57.1	13.2	3.0	0.0	0.0	0.0	13.8	0.0	3071.1
Initial Spares	1.6	1.3	1.5	1.4								5.8
Total Proc Cost	2397.9	312.6	278.0	58.4	13.2	3.0	0.0	0.0	0.0	13.8	0.0	3077.0

DESCRIPTION:
 The Single Channel Ground and Airborne Radio System (SINCGARS) is the VHF-FM Radio Communications System providing the primary means of command and control for infantry, armor, artillery, and Army aviation units. It possesses capabilities and improvements over the 1960 technology radios it replaces in manpack, vehicular, and airborne configurations. Its Frequency-Hopping jam resistant capability will offset the current threat of jamming techniques used against the existing family of fixed frequency radios. SINCGARS continues its evolutionary development with the fielding of the SINCGARS System Improvement Program (SIP) radio. The SINCGARS SIP radio provides for enhanced data and voice communications while using commercial Internet Protocols within an Internet Controller. The SINCGARS SIP radio forms the linchpin of the Tactical Internet and is a major contributor to the Army digitization effort. The advanced system improvement program (ASIP) will result in a system that is half the size, half the weight, and double the power efficiency while providing the same functionality. It will assist commanders in conducting the battle on the digitized battlefield. SINCGARS is used in such systems as PATRIOT, M1A2 Tank Improvement Program, Paladin, and Longbow Apache.

JUSTIFICATION:
 Funding in FY 00 and out will support completion of fielding of the program.

Exhibit P-5, Weapon OPA Cost Analysis		Appropriation/ Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment			P-1 Line Item Nomenclature: SINGARS - AIRBORNE (J30500)			Weapon System Type:			Date: February 1999			
OPA Cost Elements		ID	FY 98			FY 99			FY 00			FY 01		
		CD	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
			\$000	Each	\$	\$000	Each	\$	\$000	Each	\$	\$000	Each	\$
AIRBORNE HARDWARE		A												
HARDWARE KITS			5165											
GOVERNMENT ENGINEERING			373											
DATA			133											
GRM-122 UPGRADE			1500											
AIRBORNE ASIP			1243											
FIELDING			100											
ENGINEERING SUPPORT			725											
TOTAL			9239											

Exhibit P-5a, Budget Procurement History and Planning

Date: February 1999

Appropriation / Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment
 Weapon System Type:
 P-1 Line Item Nomenclature: SINGARS - AIRBORNE (J30500)

WBS Cost Elements: Fiscal Years	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY Each	Unit Cost \$000	Specs Avail Now?	Date Revsn Avail	RFP Issue Date
AIRBORNE HARDWARE FY 97	ITT, FT WAYNE, IND	S/FFP/OP	CECOM	Apr-97	Jun-98	815	14512	Yes		

REMARKS: FY 98 program is for Airborne Retrofit kits.

Exhibit P-5, Weapon OPA Cost Analysis		Appropriation/ Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment			P-1 Line Item Nomenclature: SINGGARS - GROUND (B00500)			Weapon System Type:			Date: February 1999			
OPA Cost Elements		ID	FY 98			FY 99			FY 00			FY 01		
		CD	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
			\$000	Each	\$	\$000	Each	\$	\$000	Each	\$	\$000	Each	\$
HARDWARE ITT		A	154753	32847	4711	29454	5000	5891						
HARDWARE GD														
PRIOR YEAR REL FEE CONT LIABILITY														
CONTRACTOR ENGINEERING SUPPORT			32784											
DATA														
ECPS			12046											
GOVERNMENT ENGINEERING			5999			4131			1200					
PROJECT MANAGEMENT ADMINISTRATION			3715			2588			1188					
OTHER HARDWARE			39983			14301			1732					
TEST			5583			987								
FIELDING														
NEW EQUIPMENT TRAINING			3227			3375			4980			1821		
TPF			9131			2218			4105			1213		
TOTAL			267221			57054			13205			3034		

Exhibit P-5a, Budget Procurement History and Planning

Date: February 1999

Appropriation / Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment		Weapon System Type:			P-1 Line Item Nomenclature: SINCGARS - GROUND (B00500)					
WBS Cost Elements: Fiscal Years	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY Each	Unit Cost \$	Specs Avail Now?	Date Revsn Avail	RFP Issue Date
HARDWARE ITT FY 98	ITT, FT. WAYNE, IND	C/FP/OPT	CECOM	Apr-98	Dec-99	32847	4711	Yes		
FY 99	ITT, FT. WAYNE, IND	C/FP/OPT	CECOM	Mar-99	Nov-00	5000	5891	Yes		

REMARKS:

Exhibit P-40, Budget Item Justification Sheet

Date: February 1999

Appropriation / Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment
 P-1 Item Nomenclature: JOINT TACTICAL AREA COMMAND SYSTEMS (BA1010)

Program Elements for Code B Items: Code: A Other Related Program Elements: BB1600

	Prior Years	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	To Complete	Total Prog
Proc Qty												
Gross Cost	510.0	43.3	10.3	9.9	1.0	1.0	1.0	0.9	0.9	0.9		579.2
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	510.0	43.3	10.3	9.9	1.0	1.0	1.0	0.9	0.9	0.9		579.2
Initial Spares												
Total Proc Cost	510.0	43.3	10.3	9.9	1.0	1.0	1.0	0.9	0.9	0.9		579.2
Flyaway U/C												
Wpn Sys Proc U/C												

DESCRIPTION:
 FY98/99 funds 2 separate components in accordance with transfer of PM JTACS equipments to US Army Communications Electronics Command (CECOM), as follows: (1) Funding for Project Manager, Warfighter Information Network-Terrestrial (PM WIN-T) to support personnel/equipments negotiated to remain with the new PM; the WIN is a total information system architecture that supports requirements of the Digitized Force XXI. WIN is the architecture that will seamlessly link our diverse information resources into a network Army warfighters can use on the 21st century's digitized battlefield and (2) Funding for CECOM Special Project Office, JTACS Systems Branch, and completion of Level II projects. Effective FY 00, allotment belongs to CECOM only. This line supports the Legacy Systems of the Area Common User System-Modernization Plan (ACUS-MP) which is comprised of the Communication Networks, which evolved from the original Tri Service Tactical Communications and Mobile Subscriber Equipment.

JUSTIFICATION:
 CECOM/JTACS Systems Branch Allocation-FY 00/01 funds are required to provide Level II Project Management of equipments transferred from PM JTACS/WIN-T to CECOM.

Exhibit P-5, Weapon OPA Cost Analysis		Appropriation/ Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment			P-1 Line Item Nomenclature: JOINT TACTICAL AREA COMMAND SYSTEMS (BA1010)			Weapon System Type:			Date: February 1999			
OPA Cost Elements		ID	FY 98			FY 99			FY 00			FY 01		
		CD	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
			\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000
PM WIN-T Allotment:														
1. PROJ MANAGEMENT ADMIN			4114			3937								
2. ENGINEERING SUPPORT GOVERNMENT/CONTRACTOR			3648			4842								
SUBTOTAL			7762			8779								
CECOM JTACS Systems Branch:														
7. QEAM			838			222								
8. AN/TYQ-69			466											
9. AN/GRC-226			330											
10. Project Admin Support			840			897			980			979		
11. AN/GRC-222			56											
SUBTOTAL			2530			1119			980			979		
TOTAL			10292			9898			980			979		

Exhibit P-5a, Budget Procurement History and Planning

Date: February 1999

Appropriation / Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment		Weapon System Type:			P-1 Line Item Nomenclature: JOINT TACTICAL AREA COMMAND SYSTEMS (BA1010)					
WBS Cost Elements: Fiscal Years	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY Each	Unit Cost \$000	Specs Avail Now?	Date Revsn Avail	RFP Issue Date
QUICK ERECT ANTENNA MAST (QEAM) CECOM 1998 1999	TRI EX, VISALIA CA TRI EX, VISALIA CA	SS/FP SS/FP	CECOM CECOM	Feb-98 Feb-99	Aug-98 May-99	N/A N/A	N/A N/A	YES YES		

REMARKS:

Exhibit P-40, Budget Item Justification Sheet

Date: February 1999

Appropriation / Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment
 P-1 Item Nomenclature: ACUS MOD PROGRAM (WIN T/T) (BB1600)

Program Elements for Code B Items: Code: A Other Related Program Elements: BB1600, BA1010

	Prior Years	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	To Complete	Total Prog
Proc Qty												
Gross Cost	334.7	13.2	98.1	129.0	109.1	132.7	167.5	249.1	258.5	327.4		1819.3
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	334.7	13.2	98.1	129.0	109.1	132.7	167.5	249.1	258.5	327.4		1819.3
Initial Spares												
Total Proc Cost	334.7	13.2	98.1	129.0	109.1	132.7	167.5	249.1	258.5	327.4		1819.3
Flyaway U/C												
Wpn Sys Proc U/C												

DESCRIPTION:
 The ACUS MOD PROGRAM (WIN-T) line funds the ongoing and planned modifications to the Area Common User System (ACUS) and supports its migration to the Army's Warfighter Information Network (WIN) systems architecture. The WIN is a total information system architecture that supports the requirements of the Digitized Force XXI. WIN is the architecture that will seamlessly link our diverse information resources into a network the Army warfighters can use on the 21st century's digitized battlefield. The components of the terrestrial portion of WIN are: (A) The Switch Modernization effort is the engineering effort to prove out the institutional upgrade of the legacy area common user system switches with Asynchronous Transfer Mode (ATM) and the procurement/fielding of this upgraded capability throughout the Army; (B) The Radio Modernization effort provides increased transmission pipes between switches to move voice, data, video, collaborative planning, etc. on the digitized battlefield. (C) The High Speed Multiplexer Card effort provides essential bandwidth necessary to support the Battlefield Video Teleconferencing capability and high speed data access through Mobile Subscriber Equipment. (D) The Battlefield Video Teleconferencing effort provides whiteboarding/collaborative planning interface, necessary for timely dissemination of information on the battlefield. Also included are spares and training devices to support the abovementioned upgrades. The objective is for a Force Package (FP), with a supporting slice to be fielded every 3 years after the First Digitized Division (FDD) in FY 00 and First Digitized Corps (FDC) in FY 04 and migrate towards the objective architecture. Objective improvements will include wireless voice and data communications to support mobile operations, new secure telephone equipment interoperable with that used in garrison, fiber optics to replace metallic cables and a transition to commercial voice switching technology for improved interoperability with commercial and joint information systems. This will provide a highly mobile, rapid means of communications without requiring military unique equipment.

Exhibit P-40C Budget Item Justification Sheet		Date
		February 1999
Appropriation / Budget Activity/Serial No. OTHER PROCUREMENT / 2 / Communications and Electronics Equipment		P-1 Item Nomenclature ACUS MOD PROGRAM (WIN T/T) (BB1600)
Program Elements for Code B Items	Code A	Other Related Program Elements BB1600, BA1010
<p>JUSTIFICATION: FY 00/01 continues the Area Common User System-Modernization Plan (ACUS-MP) and provides for the necessary production/contractor engineering support. The ACUS is an area switched communications system that is comprised of the EAC Comm Network, which evolved from the original Tri-Service Tactical Communications (TRI-TAC) concept and the Echelons Corps and Below (ECB) Mobile Subscriber Equipment System. The Army will continue to modernize the area common user system in FY 00/01 and will transition to the Warfighter Information Network (WIN) to capitalize on advances made in information technology. WIN will provide bandwidth-on-demand switching, improved wide band radios, fiber optic cable, High Speed Multiplexer kits and Battlefield Video Teleconferencing equipment to increase communication interoperability, reliability and capacity.</p>		

Exhibit P-40M Budget Item Justification Sheet

Date
February 1999

Appropriation / Budget Activity/Serial No. OTHER PROCUREMENT / 2 / Communications and Electronics Equipment
P-1 Item Nomenclature ACUS MOD PROGRAM (WIN T/T) (BB1600)

Program Elements for Code B Items Code A Other Related Program Elements BB1600, BA1010

Description		Fiscal Years									
OSIP NO.	Classification	Prior Years	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	TC	Total
	ACUS Area Common User Modernization Plan										
	Operational	442.3	129.0	109.1	132.7	167.5	249.1	258.5	327.4		1,815.6
	Totals	442.3	129.0	109.1	132.7	167.5	249.1	258.5	327.4		1,815.6

INDIVIDUAL MODIFICATION

Date February 1999

MODIFICATION TITLE: ACUS Area Common User Modernization Plan

MODELS OF SYSTEMS AFFECTED: Network Management and Control, Circuit Switching, Data Switching, Terminals and Transmission Systems

DESCRIPTION / JUSTIFICATION:

The ACUS is an area switched communication system that is comprised of the Echelons Above Corps (EAC) Communications Network and the Echelons Corps and Below (ECB) Mobile Subscriber Equipment (MSE) System. Ongoing and planned modifications to the ACUS will support its migration to the Army's Warfighter Information (WIN) systems architecture. The WIN is a total information system architecture that supports the requirements of the Digitized Force XXI. WIN is the architecture that will seamlessly link the diverse information resources into a network the Army warfighters can use on the 21st century's digitized battlefield.

DEVELOPMENT STATUS / MAJOR DEVELOPMENT MILESTONES:

Installation Schedule:

Pr Yr	FY 1999				FY 2000				FY 2001				FY 2002				FY 2003			
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Totals																				
Inputs																				
Outputs								1				1				1	1	1	1	1

	FY 2004				FY 2005				FY 2006				FY 2007				To Complete	Totals
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4		
Inputs																		
Outputs	1	1	2	1	4	4	4	4	3	3	3	3	5	4	5	5		59

METHOD OF IMPLEMENTATION:

ADMINISTRATIVE LEADTIME: 24 Months

PRODUCTION LEADTIME: 24 Months

Contract Dates: Jun 98

FY 1999 Enter Date

FY 2000 Enter Date

FY 2001 Enter Date

Delivery Date: Jun 00

FY 1999 Enter Date

FY 2000 Enter Date

FY 2001 Enter Date

INDIVIDUAL MODIFICATION

Date

February 1999

MODIFICATION TITLE (Cont): ACUS Area Common User Modernization Plan

FINANCIAL PLAN: (\$ in Millions)

	FY 1998 and Prior		FY 1999		FY 2000		FY 2001		FY 2002		FY 2003		FY 2004		FY 2005		TC		TOTAL		
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	
RDT&E																					
PROCUREMENT																					
Kit Quantity																					
Installation Kits																					
Installation Kits, Nonrecurring																					
Equipment		383.0		71.9		70.5		87.7		104.5		163.1		167.1		230.9					1278.7
Equipment, Nonrecurring		44.7		28.0		9.9		6.7		2.9		1.6		1.3		4.6					99.7
Engineering Change Orders		0.6		0.7		0.3		1.6		2.2		3.4		3.3		4.6					16.7
Data		0.3																			0.3
Training Equipment		0.9		5.8		3.9		6.2		7.4		8.3		17.0							49.5
Support Equipment																					
Engineering Spt-Govt/Contr		11.4		14.3		22.8		23.2		23.6		24.1		24.6		25.1					169.1
Other-Spares		0.2		6.2		0.6		2.6		14.4		25.3		25.1		34.6					109.0
Installation of Hardware		1.2		2.1		1.1		4.7		12.5		23.3		20.1		27.6					92.6
FY 1998 & Prior Eqpt -- Kits																					
FY 1999 Eqpt -- Kits																					
FY 2000 Eqpt -- Kits																					
FY 2001 Eqpt -- Kits																					
FY 2002 Eqpt -- kits																					
FY 2003 Eqpt -- kits																					
FY 2004 Eqpt -- kits																					
FY 2005 Eqpt -- kits																					
TC Equip-Kits																					
Total Installment																					
Total Procurement Cost		442.3		129.0		109.1		132.7		167.5		249.1		258.5		327.4					1815.6

Exhibit P-40, Budget Item Justification Sheet

Date: February 1999

Appropriation / Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment
 P-1 Item Nomenclature: COMMS-ELEC EQUIP FIELDING (BA5210)

Program Elements for Code B Items: Code: Other Related Program Elements:

	Prior Years	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	To Complete	Total Prog
Proc Qty												
Gross Cost	0.0	0.0	3.7	2.2	4.2	4.9	6.0	6.8	7.4	8.1	0.0	43.3
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	0.0	0.0	3.7	2.2	4.2	4.9	6.0	6.8	7.4	8.1	0.0	43.3
Initial Spares												
Total Proc Cost	0.0	0.0	3.7	2.2	4.2	4.9	6.0	6.8	7.4	8.1	0.0	43.3
Flyaway U/C												
Wpn Sys Proc U/C												

DESCRIPTION: This funds the fielding costs associated with a variety of Communications-Electronics (C-E) systems and efforts not identifiable to a current major system hardware line. Fielding costs include Total Package Fielding (TPF), New Equipment Training (NET) and First Destination Transportation (FDT). TPF efforts include validation of the Material Requirements List (MRL), depot staging costs, deprocessing, inventory, installation and handoff of all required equipment and material to gaining units. The funding shown for NET is to train the instructor and key personnel who then train the users in the field in operating and maintenance of CECOM managed equipment. FDT costs are those associated with the shipping of various of C-E equipment from the contractor to the depot.

JUSTIFICATION: The primary efforts to be funded in FY-00/01 are TPF/NET for C-E Equipment requirements for the conversion of selected units. These funds will activate multiple Brigades with MSE and TRI-TAC capabilities. These conversions are restructured to accommodate a downsized force structure. The primary efforts in FY-00 is the conversion of MSE shelters from Digital Group Multiplexers (DGM) to the newer Transmission Interface Module (TIM) System MSE. These funds will ensure that critical round out signal units are equipped for the Mobile Digitized Battlefield with Go-To-War system.

Exhibit P-5, Weapon OPA Cost Analysis		Appropriation/ Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment			P-1 Line Item Nomenclature: COMMS-ELEC EQUIP FIELDING (BA5210)			Weapon System Type:			Date: February 1999		
OPA Cost Elements	ID CD	FY 98			FY 99			FY 00			FY 01		
		TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
		\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000
FY 98: CONTRACTUAL-GTE		1100											
DEPOT/INSTALL-PROCESSING COSTS/SPT		2119											
SPT COSTS		446											
FY99: FIELDING SUPPORT					928								
PM SUPPORT COSTS					400								
DEPOT/INSTALL-PROCESSING COST/SPT					832								
FY00: FIELDING SUPPORT								2468					
PM SUPPORT COSTS								500					
DEPOT/INSTALL-PROCESSING COST/SPT								1183					
FO01: FIELDING SUPPORT											2500		
PMSUPPORT COSTS											550		
DEPOT/INSTALL-PROCESSING COST/SPT											1822		
TOTAL		3665			2160			4151			4872		

Exhibit P-40, Budget Item Justification Sheet

Date: February 1999

Appropriation / Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment
 P-1 Item Nomenclature: SOLDIER ENHANCEMENT PROGRAM COMM/ELECTRO (BA5300)

Program Elements for Code B Items: Code: Other Related Program Elements:

	Prior Years	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	To Complete	Total Prog
Proc Qty												
Gross Cost	0.0	0.0	1.0	4.6	3.4	4.5	5.3	6.3	8.5	8.5	0.0	42.1
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	0.0	0.0	1.0	4.6	3.4	4.5	5.3	6.3	8.5	8.5	0.0	42.1
Initial Spares												
Total Proc Cost	0.0	0.0	1.0	4.6	3.4	4.5	5.3	6.3	8.5	8.5	0.0	42.1
Flyaway U/C												
Wpn Sys Proc U/C												

DESCRIPTION: The Soldier Enhancement Program procures soldier items that will ensure that our combat soldiers maintain and improve their lethality, survivability, mobility, command and control, and sustainment. The Soldier Intercom (SI) is currently being procured under this program.. The SI is a small voice radio with a tethered speaker/microphone for use by individuals within a squad to coordinate their movement. SI will allow squad members to communicate more effectively while conducting day/night combat operations over distances without relying on hand and arm signals, particularly in Military Operations in Urban Terrain (MOUT). The SI is an inexpensive means of coordinating squad communication and facilitates dissemination of information from the squad leader. The SI consists of a receiver/transmitter, antenna, speaker/microphone, and carrying case for the load bearing equipment. The SI is the US Army Infantry Center #1 materiel solution priority.

JUSTIFICATION: Command and control through radios currently ends at the squad leader level. The SI will extend the ability of the squad leader to disseminate voice information to the members of the squad by using a small rugged, non-developmental radio. The FY00-01 funds will complete fielding of Force Packages II and III (i.e., non Land Warrior, Mounted Warrior, and Air Warrior).

Exhibit P-40, Budget Item Justification Sheet

Date:

February 1999

Appropriation / Budget Activity/Serial No:

OTHER PROCUREMENT / 2 / Communications and Electronics Equipment

P-1 Item Nomenclature:

COMBAT SURVIVOR EVADER LOCATOR (CSEL) (B03200)

Program Elements for Code B Items:

Code:

Other Related Program Elements:

	Prior Years	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	To Complete	Total Prog
Proc Qty												
Gross Cost	0.0	0.0	1.1	13.7	0.0	0.0	13.3	24.1	20.1	6.9	0.0	79.1
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	0.0	0.0	1.1	13.7	0.0	0.0	13.3	24.1	20.1	6.9	0.0	79.1
Initial Spares												
Total Proc Cost	0.0	0.0	1.1	13.7	0.0	0.0	13.3	24.1	20.1	6.9	0.0	79.1
Flyaway U/C												
Wpn Sys Proc U/C												

DESCRIPTION:

The USAF Combat Survivor Evader Locator (CSEL) communication system handheld radio includes secure digital message communications, Global Positioning System (GPS), line of sight (LOS) voice, and radio satellite and ground equipment interfaces to work with existing search and rescue systems for downed aircraft personnel. CSEL decreases the enemy's ability to detect or decipher rescue communications through the use of satellite communications. GPS allows pinpoint location of the U.S. survivor evader. Based on replacing the AN/PRC-112, there is a requirement for 18,531 CSELS, including Special Forces.

JUSTIFICATION:

The FY 00 and FY 01 procurement has been eliminated to permit further development of the radio.

Exhibit P-5, Weapon OPA Cost Analysis		Appropriation/ Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment			P-1 Line Item Nomenclature: COMBAT SURVIVOR EVADER LOCATOR (CSEL) (B03200)			Weapon System Type:			Date: February 1999			
OPA Cost Elements		ID	FY 98			FY 99			FY 00			FY 01		
		CD	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
			\$000	Each	\$	\$000	Each	\$	\$000	Each	\$	\$000	Each	\$
Hardware		A				11938	948	12593						
Non-recurring Production														
System Project Management			477			811								
Government Engineering			582			590								
Engineering Changes						336								
TOTAL			1059			13675								

Exhibit P-5a, Budget Procurement History and Planning

Date: February 1999

Appropriation / Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment
 Weapon System Type: P-1 Line Item Nomenclature: COMBAT SURVIVOR EVADER LOCATOR (CSEL) (B03200)

WBS Cost Elements: Fiscal Years	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY Each	Unit Cost \$	Specs Avail Now?	Date Revsn Avail	RFP Issue Date
Hardware FY 99	Boeing N. Amer, Los Angeles	SS/Opt	USAF	May-99	Oct-00	948	12593	No		

REMARKS:

Exhibit P-40, Budget Item Justification Sheet

Date: February 1999

Appropriation / Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment
 P-1 Item Nomenclature: MEDICAL COMM FOR CBT CASUALTY CARE (MC4) (MA8046)

Program Elements for Code B Items: Code: Other Related Program Elements:

	Prior Years	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	To Complete	Total Prog
Proc Qty												
Gross Cost	0.0	0.0	0.0	9.4	20.6	15.0	9.3	11.8	14.5	17.9	0.0	98.5
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	0.0	0.0	0.0	9.4	20.6	15.0	9.3	11.8	14.5	17.9	0.0	98.5
Initial Spares												
Total Proc Cost	0.0	0.0	0.0	9.4	20.6	15.0	9.3	11.8	14.5	17.9	0.0	98.5
Flyaway U/C												
Wpn Sys Proc U/C												

DESCRIPTION: Medical Communication for Combat Casualty Care (MC4) is a capstone program which provides support to the medical force structure through the acquisition of existing and emerging digital communications equipment and information management/technology capabilities for modular hospital platforms and non-hospital units throughout the wartime theater of operations as well as peace operations, humanitarian assistance and operations in aid of civil authorities. MC4 will also integrate the Medical Information Systems into the Army Command and Control (C2) structure which is evolving to support Force XXI and the Army After Next (AAN).

JUSTIFICATION: MC4 inserts available and emerging technologies into existing platforms and provides enhanced tactical communications capabilities to enhance combat medical treatment. MC4 will also procure, field and integrate automation infrastructure for Army users of the Joint Theater Medical Information Program (TMIP), which is to commence in FY99. FY00/01 funding supports procurement and fielding of information management/information technology and communications equipment to enhance far forward combat casualty care.

Exhibit P-5, Weapon OPA Cost Analysis		Appropriation/ Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment			P-1 Line Item Nomenclature: MEDICAL COMM FOR CBT CASUALTY CARE (MC4) (MA8046)			Weapon System Type:			Date: February 1999			
OPA Cost Elements		ID	FY 98			FY 99			FY 00			FY 01		
		CD	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
			\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000
Digitized Combat Support Hospital Hardware consisting of: Pentium-based desktop workstations and Pentium-based laptops Wireless LAN and equipment Hand-held radios Routers and servers Engineer, Furnish, Install & Test		A				3840	*VAR	VAR	9600	*VAR	VAR	6905	*VAR	VAR
Division/Corps Support Slice Hardware consisting of: Pentium-based desktop workstations and Pentium-based laptops Wireless LAN and equipment Hand-held radios Routers and servers Engineer, Furnish, Install & Test		A				2174	*VAR	VAR	5300	*VAR	VAR	3200	*VAR	VAR
Theater Army Medical Management Info Sys (TAMMIS) Upgrade		A				1400	VAR	VAR						
CTASC II (Y2K) Upgrade		A				1500	VAR	VAR						
Personal Information Carrier (PIC)		A				500	VAR	VAR	5700	VAR	VAR	4900	VAR	VAR
TOTAL						9414			20600			15005		
* Configurations vary by unit/location														

Exhibit P-5a, Budget Procurement History and Planning

Date:
February 1999

Appropriation / Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment		Weapon System Type:			P-1 Line Item Nomenclature: MEDICAL COMM FOR CBT CASUALTY CARE (MC4) (MA8046)					
WBS Cost Elements: Fiscal Years	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY Each	Unit Cost \$000	Specs Avail Now?	Date Revsn Avail	RFP Issue Date
Digitized Combat Support Hospital FY 99	TBS	C/FP	CAC-W	Apr-99 Jun-99	Jul-99 Sep-99	VAR VAR	VAR VAR	YES		
FY 00	TBS	C/FP	CAC-W	Mar-00	Jun-00	VAR	VAR	YES		
FY 01	TBS	C/FP	CAC-W	Mar-01	Jun-01	VAR	VAR	YES		
Division/Corps Support Slice FY 99	TBS	C/FP	CAC-W	Apr-99 Jun-99	Jul-99 Sep-99	VAR VAR	VAR VAR	YES YES		
FY 00	TBS	C/FP	CAC-W	Mar-00	Jun-00	VAR	VAR	YES		
FY 01	TBS	C/FP	CAC-W	Mar-01	Jun-01	VAR	VAR	YES		
Theater Army Medical Management Info Sys (TAMMIS) Upgrade FY 99	FIELDWORKS	C/FP	CAC-W	Apr-99	Jul-99	VAR	VAR	YES		
CTASC II (Y2K) Upgrade FY 99	FIELDWORKS	C/FP	CAC-W	Apr-99	Jul-99	VAR	VAR	YES		
Personal Information Carrier (PIC) FY 99	TBS	C/FP	USAMRAA	Jul-99	Oct-99	VAR	VAR	YES		
FY 00	TBS	C/FP	USAMRAA	Mar-00	Jun-00	VAR	VAR	YES		
FY 01	TBS	C/FP	USAMRAA	Mar-01	Jun-01	VAR	VAR	YES		

REMARKS: FIELDWORKS, Eden Prarie, MN
CAC-W - CECOM Acquisition Center - Washington
USAMRAA - US Army Medical Research Acquisition Activity, Ft Detrick, MD

Exhibit P-40, Budget Item Justification Sheet

Date: February 1999

Appropriation / Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment
 P-1 Item Nomenclature: LIGHTWEIGHT LASER DESIGNATOR / RANGEFINDER (LLDR) (K31100)

Program Elements for Code B Items: 0604710A DL70
 Code: B
 Other Related Program Elements:

	Prior Years	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	To Complete	Total Prog
Proc Qty					14	33	40	43	58	77	Continuing	Continuing
Gross Cost	0.0	0.0	0.0	0.0	6.3	7.1	7.1	7.3	9.9	15.4	Continuing	Continuing
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	0.0	0.0	0.0	0.0	6.3	7.1	7.1	7.3	9.9	15.4	Continuing	Continuing
Initial Spares												
Total Proc Cost	0.0	0.0	0.0	0.0	6.3	7.1	7.1	7.3	9.9	15.4	Continuing	Continuing
Flyaway U/C					0.310	0.183	0.151	0.144	0.146	0.170		
Wpn Sys Proc U/C					0.447	0.223	0.174	0.169	0.171	0.200		

DESCRIPTION: K31100, AN/PED-1, Lightweight Laser Designator Rangefinder (LLDR) is a modular system designed for day/night all weather target acquisition, precise location, and designation for engagement by a variety of munitions. The target location module contains an advanced Forward Looking Infrared (FLIR) thermal sensor, day camera, laser rangefinder, digital compass/vertical angle measurement device, Global Positioning System, and system controller with digital data and video outputs. The laser designation module contains the laser and associated optics required for precision engagement by laser-guided artillery and aircraft-launched munitions. Weighing just 35 pounds with tripod and battery, the man-portable LLDR gives the light forces an impressive new fire support capability with 24-hour target identification, digital data export of precise target location for engagement by indirect fires, or laser designation for destruction by laser-guided munitions. LLDR will also be mounted on the STRIKER vehicle to provide this same target location and engagement capability for mounted artillery fire support teams.

JUSTIFICATION: LLDR meets an urgent requirement for precision target location and engagement for the artillery fire support teams, and has received Warfighter Rapid Acquisition Program (WRAP) funding in FY 1997 and FY 1998 to achieve an initial operational capability and to be integrated into the STRIKER system. LLDR is a Priority 2 system for the First Digitized Division, and will give fire support teams the capability to send timely and accurate target location digital data with the push of a button. LLDR will also serve as the sensor and digital data source for Marine Corps fire support teams, with Marine Corps providing funding for a joint production program starting in FY 2001. The Army FY 2000 funds will procure this critical capability for fielding to the 82nd Airborne Division.

Exhibit P-5, Weapon OPA Cost Analysis		Appropriation/ Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment			P-1 Line Item Nomenclature: LIGHTWEIGHT LASER DESIGNATOR / RANGEFINDER (LLDR) (K31100)			Weapon System Type:			Date: February 1999			
OPA Cost Elements		ID	FY 98			FY 99			FY 00			FY 01		
		CD	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
			\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000
K31100 AN/PED-1 LLDR		B							3060	14	219	5797	32	181
Government Engineering Support									317			309		
Project Management Admin									223			206		
Fielding											228			
Interim Contractor Support									200			269		
ECO									178			95		
Data/Technical Pubs									74			39		
Testing									195			202		
Facilitization									2015					
TOTAL									6262			7145		

Exhibit P-5a, Budget Procurement History and Planning

Date: February 1999

Appropriation / Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment		Weapon System Type:			P-1 Line Item Nomenclature: LIGHTWEIGHT LASER DESIGNATOR / RANGEFINDER (LLDR) (K31100)					
WBS Cost Elements: Fiscal Years	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY Each	Unit Cost \$000	Specs Avail Now?	Date Revsn Avail	RFP Issue Date
K31100 AN/PED-1 LLDR FY 00 FY 01	Litton Laser, Apopka, FL Litton Laser, Apopka, FL	SS/FP SS/FP	CECOM CECOM	Mar-00 Jan-01	Apr-01 Oct-01	14 32	219 181	Yes		

REMARKS:

FY 00 / FY 01 BUDGET PRODUCTION SCHEDULE							P-1 Item Nomenclature: LIGHTWEIGHT LASER DESIGNATOR / RANGEFINDER (LLDR) (K31100)													Date: February 1999								
COST ELEMENTS	MFR	FY	SERV	PROC QTY Each	ACCEP. PRIOR TO 1 OCT	BAL DUE AS OF 1 OCT	Fiscal Year 00												Fiscal Year 01					L A T E R				
							Calendar Year 00												Calendar Year 01									
							OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB		MAR	APR	MAY	JUN
K31100 AN/PED-1 LLDR																												
	1	FY 00	A	14	0	14																						
	1	FY 01	A	32	0	32																						32
	1	FY 01	M	62	0	62																						62

MFR	NAME / LOCATION	PRODUCTION RATES			REACHED D +	MFR Number	ADMIN LEAD TIME		MFR After 1 Oct.	TOTAL After 1 Oct.	REMARKS		
		MIN.	1-8-5	MAX.			Prior 1 Oct.	After 1 Oct.					
1	TBS	6	12	20		1	INITIAL	00	6	5	13	18	USMC Production funding identified in POM starting in FY 2001.
							REORDER	01	1	3	9	12	
							INITIAL						
							REORDER						
							INITIAL						
							REORDER						
							INITIAL						
							REORDER						

FY 00 / FY 01 BUDGET PRODUCTION SCHEDULE							P-1 Item Nomenclature: LIGHTWEIGHT LASER DESIGNATOR / RANGEFINDER (LLDR) (K31100)														Date: February 1999										
COST ELEMENTS	MFR	FY	SERV	PROC QTY Each	ACCEP. PRIOR TO 1 OCT	BAL DUE AS OF 1 OCT	Fiscal Year 02												Fiscal Year 03												LATER
							Calendar Year 02												Calendar Year 03												
							OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	
K31100 AN/PED-1 LLDR																															
	1	FY 00	A	14	14																										
	1	FY 01	A	32	0	32	2	2	2	2	3	3	3	3	3	3	3	3	3												
	1	FY 01	M	62	0	62	3	3	4	5	5	6	6	6	6	6	6	6													
							OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	
MFR	PRODUCTION RATES				REACHED	MFR Number	ADMIN LEAD TIME		MFR	TOTAL	REMARKS																				
NAME / LOCATION	MIN.	1-8-5	MAX.	D +		Prior 1 Oct.	After 1 Oct.	After 1 Oct.	After 1 Oct.																						
1 TBS	6	12	20		1	INITIAL 00	6	5	13	18	USMC PRODUCTION FUNDING IDENTIFIED IN POM STARTING IN FY 2001.																				
						REORDER 01	1	3	9	12																					
						INITIAL																									
						REORDER																									
						INITIAL																									
						REORDER																									
						INITIAL																									
						REORDER																									
						INITIAL																									

Exhibit P-40, Budget Item Justification Sheet

Date: February 1999

Appropriation / Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment
 P-1 Item Nomenclature: TSEC - ARMY KEY MGT SYS (AKMS) (BA1201)

Program Elements for Code B Items: 0303140A Communications Security (COMSEC) Equipment
 Code: A
 Other Related Program Elements: Z16800 Battlefield Electronics Communications System (BECS)

	Prior Years	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	To Complete	Total Prog
Proc Qty												
Gross Cost	15.0	0.0	4.5	10.3	11.0	12.1	12.3	13.2	3.8	4.0		86.2
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	15.0	0.0	4.5	10.3	11.0	12.1	12.3	13.2	3.8	4.0		86.2
Initial Spares												
Total Proc Cost	15.0	0.0	4.5	10.3	11.0	12.1	12.3	13.2	3.8	4.0		86.2
Flyaway U/C												
Wpn Sys Proc U/C												

DESCRIPTION:
 Army Key Management System (AKMS) is the Army's system to automate the functions of Communications Security (COMSEC) key management control and distribution, Electronic Counter-Countermeasures (ECCM) generation and distribution and Signal Operation Instructions (SOI) management. AKMS will electronically generate and distribute Army key and key-related material, thereby limiting adversarial access to, and reducing the vulnerability of, Army C4I systems. AKMS capabilities will also increase operational flexibility and reduce force response time. It provides communications and network planning with key management. Direction was provided in FY 98 to separate the Local COMSEC Management Software (LCMS) from the Automated Communications Engineering System (ACES). LCMS is the COMSEC accounting and generation software and ACES is the network planning software. This action will insure interoperability with the other services, improve the user acceptance of the system and allow the Project Manager to more efficiently maintain configuration management for existing and future Army systems. AKMS is part of the management/support infrastructure for the Warfighter Information Network - Terrestrial (WIN-T) program, which provides critical functions for the Army's digital systems and Force XXI digitization effort.

JUSTIFICATION:
 FY 00/01 funds will procure upgraded AKMS Workstations, Data Transfer Devices (DTDs), initiate fieldings of the new workstation and provide for the associated government and contractor engineering support, training and fielding. The DTD will be fielded with the SINCGARS radio and to other non SINCGARS users..

Exhibit P-5, Weapon OPA Cost Analysis		Appropriation/ Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment			P-1 Line Item Nomenclature: TSEC - ARMY KEY MGT SYS (AKMS) (BA1201)			Weapon System Type:			Date: February 1999			
OPA Cost Elements		ID	FY 98			FY 99			FY 00			FY 01		
		CD	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
			\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000
1. Data Transfer Device									2270	2270	1	7714	7714	1
2. Gov't Engineering			762			821			843			843		
3. Contractor			933			667			616			491		
4. Fielding/Net Legacy Systems						1947			4290			2408		
5. Upgrade Workstation						3407	606	6	2520	448	6	675	120	6
6. Software upgrade			2122			1975			499					
7. Test						500								
8. Data			725			998								
TOTAL			4542			10315			11038			12131		

Exhibit P-5a, Budget Procurement History and Planning

Date:
February 1999

Appropriation / Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment		Weapon System Type:			P-1 Line Item Nomenclature: TSEC - ARMY KEY MGT SYS (AKMS) (BA1201)					
WBS Cost Elements: Fiscal Years	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY Each	Unit Cost \$000	Specs Avail Now?	Date Revsn Avail	RFP Issue Date
1. Data Transfer Device										
FY 2000	TBD	C/FP	NSA	Mar-00	TBD	2270	1	YES		
FY 2001	TBD	FP/OPT	NSA	Feb-01	TBD	7714	1	YES		
2. Workstation										
FY 1999	TBD	C/FP	CECOM	Mar-99	TBD	606	6	YES		
FY 2000	TBD	FP/OPT	CECOM	Feb-00	TBD	448	6	YES		
FY 2001	TBD	FP/OPT	CECOM	Feb-01	TBD	120	6	YES		

REMARKS:

Exhibit P-40, Budget Item Justification Sheet

Date: February 1999

Appropriation / Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment
 P-1 Item Nomenclature: INFORMATION SYSTEM SECURITY PROGRAM - ISSP (TA0600)

Program Elements for Code B Items: Code: Other Related Program Elements:

	Prior Years	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	To Complete	Total Prog
Proc Qty												
Gross Cost	81.5	19.8	21.4	33.6	28.8	29.8	26.0	25.3	19.5	21.6	0.0	307.3
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	81.5	19.8	21.4	33.6	28.8	29.8	26.0	25.3	19.5	21.6	0.0	307.3
Initial Spares												
Total Proc Cost	81.5	19.8	21.4	33.6	28.8	29.8	26.0	25.3	19.5	21.6	0.0	307.3
Flyaway U/C												
Wpn Sys Proc U/C												

DESCRIPTION: Funds the Army's Information Systems Security (INFOSEC) Program (ISSP). Provides communication security, cryptosecurity, transmission security, emission security, and computer security equipment and products as a means for protecting telecommunications and information systems which process classified, mission sensitive, national security, and related sensitive information. Prevents exploitation through intercept, unauthorized electronic access, or related technical intelligence threats. Ensures authenticity, integrity, protection and availability of information transmitted by information systems.

JUSTIFICATION: FY 00-01 funds buy:

Network Security, KG-175, and High Assurance Guards to secure Army's portion of the Defense Information Infrastructure. Tactical-Secure Terminal Equipment (T-STE) to provide INFOSEC transparent to the soldier and solutions for TOP SECRET/Special Intelligence subscribers to echelons above and below corps communication systems to resolve problems of secure interface of strategic, tactical, and commercial communication systems as identified by the Joint Staff (J6) in the Multiservice Communications Electronics Board (MCEB) in August 1993/March 1996. MINTERM KY-99A to protect tactical communications for ground high frequency radios. KIV-7HS to secure systems used for intelligence gathering and video teleconferencing. KG-194 to secure information and communication trunks. Army Key Management System, Primary Tier 1 System for managing Army's automated Electronic Key, Communication Security (COMSEC) and INFOSEC material. Secure digitized systems to support Army initiative to Digitize First Division by FY00 and First Corps by FY04. New equipment training, first destination transportation, and consummable parts for total package fieldings.

IDENTIFICATION CODE: A

Exhibit P-5, Weapon OPA Cost Analysis		Appropriation/ Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment			P-1 Line Item Nomenclature: INFORMATION SYSTEM SECURITY PROGRAM - ISSP(TA0600)			Weapon System Type:			Date: February 1999			
OPA Cost Elements		ID	FY 98			FY 99			FY 00			FY 01		
		CD	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
			\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000
FIREWALL	A		1701	50	34									
NETWORK SECURITY IMPROVEMENT	A					15300	VAR	VAR	15300	VAR	VAR			
INTRUSION DETECTION SYSTEM	A		610	472	1									
KG-175	A					2180	265	8	1892	230	8	1892	230	8
HIGH ASSURANCE GUARDS	A					750	15	50	750	15	50	750	15	50
SECURE TERMINAL EQUIPMENT (STE)	A		1996	536	4	8493	2280	4	5364	1440	4	5811	1560	4
AIRTERM	A		3186	331	10									
MINTERM	A											4150	1660	3
KIV-7HS	A											3000	826	4
KG-194	A		276	100	3							800	215	4
STE PORTABLE POWER SUPPLY	A		692											
KOK-22 UPGRADE	A		140			461								
PRIMARY TIER 1 SYSTEM	A		2275			400						2500		
ARMY INFORMATION GUARD	A		10430											
FORCE DIGITIZATION	A					4800			4800			10000		
FIELDING	A		134			1237			644			863		
TOTAL			21440			33621			28750			29766		

Exhibit P-5a, Budget Procurement History and Planning

Date:
February 1999

Appropriation / Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment		Weapon System Type:			P-1 Line Item Nomenclature: INFORMATION SYSTEM SECURITY PROGRAM - ISSP (TA0600)					
WBS Cost Elements: Fiscal Years	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY Each	Unit Cost \$	Specs Avail Now?	Date Revsn Avail	RFP Issue Date
FIREWALL FY 98	ESR, RICHMOND, VA	C/FFP	FT HUACHUCA, AZ	Dec-97	Feb-98	50	34	YES	NO	
NETWORK SECURITY IMPROVEMENT FY 99	TBS	C/FFP	FT HUACHUCA, AZ	Feb-99	Apr-99	VAR	VAR	YES	NO	
FY 00	TBS	C/FFP	FT HUACHUCA, AZ	Oct-99	Dec-99	VAR	VAR	YES	NO	
INTRUSION DETECTION SYSTEM FY 98	PATRIOT TECHNOLOGIES INC GAITHERBURG, MD	BPA	FT HUACHUCA, AZ	Feb-98	Mar-98	472	1	YES	NO	
KG-175 FY 99	GTE	C/FPI	NSA, FT MEADE, MD	Jun-98	Oct-99	265	8	YES	NO	
FY 00	TBS	C/FPI	NSA, FT MEADE, MD	Oct-99	Jan-00	230	8	YES	NO	
FY 01	TBS	C/FPI	NSA, FT MEADE, MD	Oct-00	Jan-01	230	8	YES	NO	
HIGH ASSURANCE GUARDS FY 99	TBS	C/FPI	NSA, FT MEADE, MD	Feb-99	Apr-99	15	50	YES	NO	
FY 00	TBS	C/FPI	NSA, FT MEADE, MD	Oct-99	Jan-00	15	50	YES	NO	
FY 01	TBS	C/FPI	NSA, FT MEADE, MD	Oct-00	Jan-01	15	50	YES	NO	
SECURE TERMINAL EQUIPMENT (STE) FY 98	L3, CAMDEN, NJ	IDIQ	NSA, FT MEADE, MD	Dec-97	Dec-98	536	4	YES	NO	
FY 99	L3, CAMDEN, NJ	IDIQ	NSA, FT MEADE, MD	Dec-98	Dec-99	1745	4	YES	NO	
FY 99	L3, CAMDEN, NJ	IDIQ	NSA, FT MEADE, MD	Feb-99	Dec-99	535	4	YES	NO	
FY 00	L3, CAMDEN, NJ	IDIQ	NSA, FT MEADE, MD	Oct-99	Oct-00	1440	4	YES	NO	
FY 01	L3, CAMDEN, NJ	IDIQ	NSA, FT MEADE, MD	Oct-00	Oct-01	1560	4	YES	NO	

REMARKS: TO BE SELECTED (TBS)
NATIONAL SECURITY AGENCY (NSA)
BLANKET PURCHASE AGREEMENT (BPA)
INDEFINITE DELIVERY INDEFINITE QUANTITY (IDIQ)

Exhibit P-5a, Budget Procurement History and Planning

Date: February 1999

Appropriation / Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment
 Weapon System Type:
 P-1 Line Item Nomenclature: INFORMATION SYSTEM SECURITY PROGRAM - ISSP (TA0600)

WBS Cost Elements: Fiscal Years	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY Each	Unit Cost \$	Specs Avail Now?	Date Revsn Avail	RFP Issue Date
AIRTERM FY 98	ITT, FT WAYNE, IN	OPTION	NSA, FT MEADE, MD	Dec-97	Dec-98	331	10	YES	NO	
MINTERM FY 01	TBS	C/FPI	NSA, FT MEADE, MD	Oct-00	Oct-01	1660	3	YES	NO	
KIV-7HS FY 01	TBS	C/FPI	NSA, FT MEADE, MD	Oct-00	Oct-01	826	4	YES	NO	
KG-194 FY 98 FY 01	COMSEC UTILITY PROGRAM TBS	CUP C/FPI	NSA, FT MEADE, MD NSA, FT MEADE, MD	May-98 Oct-00	Jul-98 Oct-01	100 215	3 4	YES YES	NO NO	

REMARKS: TO BE SELECTED (TBS)
 NATIONAL SECURITY AGENCY (NSA)
 COMSEC UTILITY PROGRAM (CUP) A JOINT CHIEFS OF STAFF PROGRAM RuN BY NSA TO PROVIDE CONTINGENCY INFOSEC SYSTEMS.

COST ELEMENTS	MFR	FY	SERV	PROC QTY Each	ACCEP. PRIOR TO 1 OCT	BAL DUE AS OF 1 OCT	Fiscal Year 98												Fiscal Year 99												L A T E R			
							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				
FIREWALL	1	FY 98	A	50	0	50																												
NETWORK SECURITY IMPROVEMENT	2	FY 99	A	1	0	1																												
	2	FY 00	A	1	0	1																												
INTRUSION DETECTION SYSTEM	3	FY 98	A	472	0	472																												
KG-175	4	FY 99	A	265	0	265																												
	4	FY 00	A	230	0	230																												
	4	FY 01	A	230	0	230																												
HIGH ASSURANCE GUARDS	5	FY 99	A	15	0	15																												
	5	FY 00	A	15	0	15																												
	5	FY 01	A	15	0	15																												

MFR	NAME / LOCATION	PRODUCTION RATES			REACHED	MFR Number	ADMIN LEAD TIME		MFR	TOTAL	REMARKS	
		MIN.	1-8-5	MAX.			D +	Prior 1 Oct.				After 1 Oct.
1	ESR, RICHMOND, VA	1	100	300	6	1	INITIAL	0	2	2	4	REMARKS MANUFACTURERS 1-3 ARE COMMERCIAL PRODUCTS THAT ARE AVAILABLE UPON DELIVERY ORDER REQUEST.
							REORDER	0	0	2	2	
2	TBS	1	200	400	6	2	INITIAL	0	2	2	4	
							REORDER	0	0	2	2	
3	GAITHERBURG, MD	1	500	1000	6	3	INITIAL	0	4	1	5	
							REORDER	0	0	1	1	
4	TBS	10	100	400	6	4	INITIAL	0	2	1	3	
							REORDER	0	0	3	3	
5	TBS	10	100	400	6	5	INITIAL	0	4	2	6	
							REORDER	0	0	3	3	

COST ELEMENTS	MFR	FY	S E R V	PROC QTY Each	ACCEP. PRIOR TO 1 OCT	BAL DUE AS OF 1 OCT	Fiscal Year 98												Fiscal Year 99												L A T E R
							Calendar Year 98												Calendar Year 99												
							O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	
							C	V	E	A	E	A	P	A	U	U	U	E	C	V	E	A	E	A	P	A	U	U	U	E	
SECURE TERMINAL EQUIPMENT (STE)																															
	6	FY 98	A	536	0	536														53	53	53	53								
	6	FY 99	A	2280	0	2280														A		A									
	6	FY 00	A	1440	0	1440																									
	6	FY 01	A	1560	0	1560																									
AIRTERM																															
	7	FY 98	A	331	0	331														33	33	33	33								
MINTERM																															
	8	FY 01	A	1660	0	1660																									
KIV-7HS																															
	9	FY 01	A	826	0	826																									
KG-194																															
	A	FY 98	A	100	0	100							A		100																
	B	FY 01	A	215	0	215																									

MFR	NAME / LOCATION	PRODUCTION RATES			REACHED D +	MFR Number	ADMIN LEAD TIME		MFR After 1 Oct.	TOTAL After 1 Oct.	REMARKS	
		MIN.	1-8-5	MAX.			Prior 1 Oct.	After 1 Oct.				
6	L3, CAMDEN, NJ	25	250	500	6	6	INITIAL	0	2	12	14	THE CUP DOES NOT PRODUCE THE PRODUCTS THAT THEY PROVIDE SO PRODUCTION RATES ARE NOT POSSIBLE TO REPORT.
							REORDER	0	0	12	12	
7	ITT, FT WAYNE, IN	20	250	500	6	7	INITIAL	0	2	12	14	
							REORDER	0	0	12	12	
8	TBS	25	250	500	6	8	INITIAL	0	0	12	12	
							REORDER	0	0	12	12	
9	TBS	25	250	500	6	8	INITIAL	0	0	12	12	
							REORDER	0	0	12	12	
A	CUP, NSA, FT MEADE, MD					9	INITIAL	0	0	12	12	
							REORDER	0	0	12	12	
B	TBS	10	200	400	6	B	INITIAL	0	0	12	12	
							REORDER	0	0	12	12	

FY 00 / 01 BUDGET PRODUCTION SCHEDULE							P-1 Item Nomenclature: INFORMATION SYSTEM SECURITY PROGRAM - ISSP (TA0600)														Date: February 1999				
--	--	--	--	--	--	--	---	--	--	--	--	--	--	--	--	--	--	--	--	--	------------------------	--	--	--	--

COST ELEMENTS	MFR	FY	SERV	PROC QTY Each	ACCEP. PRIOR TO 1 OCT	BAL DUE AS OF 1 OCT	Fiscal Year 00												Fiscal Year 01												L A T E R
							Calendar Year 00												Calendar Year 01												
							O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	
							C	O	E	A	E	A	P	A	U	U	U	E	C	O	E	A	E	A	P	A	U	U	U	E	
SECURE TERMINAL EQUIPMENT (STE)	6	FY 98	A	536	536																										
	6	FY 99	A	2280	0	2280			190	190	190	190	190	190	190	190	190														
	6	FY 00	A	1440	0	1440	A										120	120	120	120	120	120	120	120	120	120	120				
	6	FY 01	A	1560	0	1560											A										1560				
AIRTERM	7	FY 98	A	331	331																										
MINTERM	8	FY 01	A	1660	0	1660											A										1660				
KIV-7HS	9	FY 01	A	826	0	826											A										826				
KG-194	A	FY 98	A	100	100																										
	B	FY 01	A	215	0	215											A										215				

MFR	NAME / LOCATION	PRODUCTION RATES			REACHED D +	MFR Number	ADMIN LEAD TIME		MFR After 1 Oct.	TOTAL After 1 Oct.	REMARKS	
		MIN.	1-8-5	MAX.			Prior 1 Oct.	After 1 Oct.				
6	L3, CAMDEN, NJ	25	250	500	6	6	INITIAL	0	2	12	14	THE CUP DOES NOT PRODUCE THE PRODUCTS THAT THEY PROVIDE SO PRODUCTION RATES ARE NOT POSSIBLE TO REPORT.
						7	REORDER	0	0	12	12	
7	ITT, FT WAYNE, IN	20	250	500	6	7	INITIAL	0	2	12	14	
						8	REORDER	0	0	12	12	
8	TBS	25	250	500	6	8	INITIAL	0	0	12	12	
						9	REORDER	0	0	12	12	
9	TBS	25	250	500	6	8	INITIAL	0	0	12	12	
						9	REORDER	0	0	12	12	
A	CUP, NSA, FT MEADE, MD					B	INITIAL	0	0	12	12	
B	TBS	10	200	400	6	9	REORDER	0	0	12	12	

FY 00 / 01 BUDGET PRODUCTION SCHEDULE						P-1 Item Nomenclature: INFORMATION SYSTEM SECURITY PROGRAM - ISSP (TA0600)																Date: February 1999									
COST ELEMENTS	MFR	FY	SERV	PROC QTY Each	ACCEP. PRIOR TO 1 OCT	BAL DUE AS OF 1 OCT	Fiscal Year 02												Fiscal Year 03						L A T E R						
							Calendar Year 02												Calendar Year 03												
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R		A P R	M A Y	J U N	J U L	A U G	S E P
FIREWALL																															
	1	FY 98	A	50	50																										
NETWORK SECURITY IMPROVEMENT																															
	2	FY 99	A	1	1																										
	2	FY 00	A	1	1																										
INTRUSION DETECTION SYSTEM																															
	3	FY 98	A	472	472																										
KG-175																															
	4	FY 99	A	265	265																										
	4	FY 00	A	230	230																										
	4	FY 01	A	230	230																										
HIGH ASSURANCE GUARDS																															
	5	FY 99	A	15	15																										
	5	FY 00	A	15	15																										
	5	FY 01	A	15	15																										

MFR	NAME / LOCATION	PRODUCTION RATES			REACHED D +	MFR Number		ADMIN LEAD TIME		MFR After 1 Oct.	TOTAL After 1 Oct.	REMARKS
		MIN.	1-8-5	MAX.				Prior 1 Oct.	After 1 Oct.			
1	ESR, RICHMOND, VA	1	100	300	6	1	INITIAL	0	2	2	4	REMARKS MANUFACTURERS 1-3 ARE COMMERCIAL PRODUCTS THAT ARE AVAILABLE UPON DELIVERY ORDER REQUEST.
							REORDER	0	0	2	2	
2	TBS	1	200	400	6	2	INITIAL	0	2	2	4	
							REORDER	0	0	2	2	
3	GAITHERBURG, MD	1	500	1000	6	3	INITIAL	0	4	1	5	
							REORDER	0	0	1	1	
4	TBS	10	100	400	6	4	INITIAL	0	0	3	3	
							REORDER	0	0	3	3	
5	TBS	10	100	400	6	5	INITIAL	0	4	2	6	
							REORDER	0	0	3	3	

FY 00 / 01 BUDGET PRODUCTION SCHEDULE

P-1 Item Nomenclature:
INFORMATION SYSTEM SECURITY PROGRAM - ISSP (TA0600)

Date:
February 1999

COST ELEMENTS	MFR	FY	SERV	PROC QTY Each	ACCEP. PRIOR TO 1 OCT	BAL DUE AS OF 1 OCT	Fiscal Year 02												Fiscal Year 03												L A T E R
							Calendar Year 02												Calendar Year 03												
							OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	
SECURE TERMINAL EQUIPMENT (STE)																															
	6	FY 98	A	536	536																										
	6	FY 99	A	2280	2280																										
	6	FY 00	A	1440	1440																										
	6	FY 01	A	1560	0	1560	130	130	130	130	130	130	130	130	130	130															
AIRTERM																															
	7	FY 98	A	331	331																										
MINTERM																															
	8	FY 01	A	1660	0	1660	140	140	140	140	140	140	140	140	140	140	120														
KIV-7HS																															
	9	FY 01	A	826	0	826	65	65	65	70	70	70	70	70	70	70	71														
KG-194																															
	A	FY 98	A	100	100																										
	B	FY 01	A	215	0	215	15	15	15	15	15	20	20	20	20	20	20														

MFR	NAME / LOCATION	PRODUCTION RATES			REACHED D +	MFR Number	ADMIN LEAD TIME		MFR After 1 Oct.	TOTAL After 1 Oct.	REMARKS
		MIN.	1-8-5	MAX.			Prior 1 Oct.	After 1 Oct.			
6	L3, CAMDEN, NJ	25	250	500	6	INITIAL	0	2	12	14	THE CUP DOES NOT PRODUCE THE PRODUCTS THAT THEY PROVIDE SO PRODUCTION RATES ARE NOT POSSIBLE TO REPORT.
7	ITT, FT WAYNE, IN	20	250	500	6	INITIAL	0	2	12	14	
8	TBS	25	250	500	6	REORDER	0	0	12	12	
9	TBS	25	250	500	6	INITIAL	0	0	12	12	
A	CUP, NSA, FT MEADE, MD					REORDER	0	0	12	12	
B	TBS	10	200	400	6	INITIAL	0	0	12	12	
						REORDER	0	0	12	12	
						INITIAL	0	0	12	12	
						REORDER	0	0	12	12	
						INITIAL	0	0	12	12	

Exhibit P-40, Budget Item Justification Sheet

Date: February 1999

Appropriation / Budget Activity/Serial No: OTHER PROCUREMENT /Communications and Electronics Equipment / 52182948
 P-1 Item Nomenclature: TERRESTRIAL TRANSMISSION (BU1900)

Program Elements for Code B Items: Code: Other Related Program Elements:

	Prior Years	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	To Complete	Total Prog
Proc Qty												
Gross Cost	213.4	6.7	19.8	1.9	2.0	2.0	2.1	2.1	2.1	2.2	0.0	254.3
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	213.4	6.7	19.8	1.9	2.0	2.0	2.1	2.1	2.1	2.2	0.0	254.3
Initial Spares												
Total Proc Cost	213.4	6.7	19.8	1.9	2.0	2.0	2.1	2.1	2.1	2.2	0.0	254.3
Flyaway U/C												
Wpn Sys Proc U/C												

DESCRIPTION: This program supports the Department of Defense approved program to modernize and integrate digital operations within the Pacific and European Theaters. The architecture of the Defense Information Systems Network (DISN) will be reconfigured to accommodate the rapidly changing deployment and realignment of forces within the Pacific and European Theaters. This program is a component of the Army's seamless Enterprise Network that provides compatibility across operational systems. The modernization program supports force projection through technology insertion and evolutionary changes. The program utilizes emerging technological developments to capitalize on digital information systems throughout the worldwide DISN. The theater Commanders-in-Chief require a robust infrastructure that will facilitate mobilization and sustainment of a deployed force.

The US Forces, Korea (USFK) requirements have been approved in the Extended Korea Improvement Program (EKIP) and the Korea Communications Infrastructure Upgrade (KCIU) by the Joint Chiefs of Staff (JCS). The goal of these programs is to strategically improve the ability to successfully defend Korea during periods of stress, increase survivability of C4I systems for the warfighter, increase information systems capacity to meet surge requirements, and improve the ability to reconstitute C4I systems. These programs also support command and control communications networks serving the Commander-in-Chief, US Forces and United Nations Command, Korea, and Commander-in-Chief, US Forces, Japan. The ultimate goal is an integrated, survivable network that provides voice, data, messaging, video, and transmission services to the warfighter through the application of emerging technologies such as Asynchronous Transfer Mode (ATM), SONET and bulk encryption.

Exhibit P-40C Budget Item Justification Sheet		Date February 1999
Appropriation / Budget Activity/Serial No. OTHER PROCUREMENT /Communications and Electronics Equipment / 52182948		P-1 Item Nomenclature TERRESTRIAL TRANSMISSION (BU1900)
Program Elements for Code B Items	Code	Other Related Program Elements
<p>The Digital European Backbone (DEB) Programs realign the DISN in Europe to comply with mandates of the Conventional Forces, Europe agreement and the Base Realignment and Closure (BRAC) Acts. This program supports all efforts related to the modernization of the C4 infrastructure in the DISN-E. This program supports command and control communications networks serving the Commander-in-Chief, European Command (EUCOM). The ultimate goal is an integrated, survivable network that provides voice, data, messaging, video, and transmission services to the warfighter through the application of emerging technologies such as Asynchronous Transfer Mode (ATM), SONET and bulk encryption.</p> <p>JUSTIFICATION: The dramatic changes in the Pacific area have increased the demands to improve the survivability, capacity and reconstitution capabilities of communications in Korea. FY00 and FY01 funding enhances the readiness of U.S. Forces in Korea and provides the warfighters with a more robust, survivable, capable command, control, communications and computer (C4) infrastructure for Pacific area deployments. Funding provides for the completion of the Digital Microwave Upgrade to include ATM and bulk encryption systems.</p> <p>The goal for the Defense Information Systems Network (DISN) - Europe is an integrated, survivable network that provides voice, data, messaging, video and transmission services to the warfighter through the application of emerging technology such as ATM, SONET, bulk encryption and network management systems. FY00 and FY01 finds will be utilized for on-going project management and engineering efforts to accomplish the required upgrades as defined by EUCOM initiatives.</p>		

Exhibit P-5, Weapon OPA Cost Analysis		Appropriation/ Budget Activity/Serial No: OTHER PROCUREMENT /Communications and Electronics Equipment / 52182948			P-1 Line Item Nomenclature: TERRESTRIAL TRANSMISSION (BU1900)			Weapon System Type:			Date: February 1999			
OPA Cost Elements		ID	FY 98			FY 99			FY 00			FY 01		
		CD	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
			\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000
TERRESTRIAL TRANSMISSION EUROPE			834			1057			1018			1024		
TERRESTRIAL TRANSMISSION PACIFIC			18976			890			1011			1016		
TOTAL			19810			1947			2029			2040		

Exhibit P-5, Weapon OPA Cost Analysis		Appropriation/ Budget Activity/Serial No: OTHER PROCUREMENT /Communications and Electronics Equipment / 52182948			P-1 Line Item Nomenclature: TERRESTRIAL TRANSMISSION (BU2000)			Weapon System Type:			Date: February 1999			
OPA Cost Elements		ID	FY 98			FY 99			FY 00			FY 01		
		CD	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
			\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000
EUROPE:														
Engineer, Furnish, Install & Test (EFI&T) Staging Support	A		50	1	50	50	1	50	50	1	50	50	1	50
Army Maintenance Supply Facility (AMSF) Spt	A		15	1	15	15	1	15	15	1	15	15	1	15
El&T Hanau - Feldberg	A		562	1	562	128								
El&T Europe	A								130			127		
Depot Support	A		21											
Contractor Engineering	A		25			50			50			50		
Project Management	A		22			169	VAR	VAR	169	VAR	VAR	169	VAR	VAR
Engineering Support	A		139			645			604	VAR	VAR	613	VAR	VAR
TOTAL			834			1057			1018			1024		

Exhibit P-5a, Budget Procurement History and Planning

Date:
February 1999

Appropriation / Budget Activity/Serial No: OTHER PROCUREMENT /Communications and Electronics Equipment / 52182948		Weapon System Type:			P-1 Line Item Nomenclature: TERRESTRIAL TRANSMISSION (BU2000)					
WBS Cost Elements: Fiscal Years	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY Each	Unit Cost \$000	Specs Avail Now?	Date Revsn Avail	RFP Issue Date
Engineer, Furnish, Install, & Test/Staging Spt										
FY98	AMC Europe	MIPR	CECOM	Dec-97	Jan-98	1	50			
FY99	AMC Europe	MIPR	CECOM	Dec-98	Jan-99	1	50			
FY00	AMC Europe	MIPR	CECOM	Dec-99	Jan-00	1	50			
FY01	AMC Europe	MIPR	CECOM	Dec-00	Jan-01	1	50			
Army Maintenance Supply Facility (AMSF) Spt										
FY98	5TH Signal Cmd	MIPR	CECOM	Mar-98	Mar-98	1	15			
FY99	5TH Signal Cmd	MIPR	CECOM	Mar-99	Mar-99	1	15			
FY00	5TH Signal Cmd	MIPR	CECOM	Mar-00	Mar-00	1	15			
FY01	5TH Signal Cmd	MIPR	CECOM	Mar-01	Mar-01	1	15			
EI&T Hanau - Feldberg										
FY98	Federal Info Sytems	MIPR	GSA	Mar-98	May-98	1	562			
FY99	Federal Info Sytems	MIPR	GSA	Dec-98	Mar-99	1	128			
Depot Support										
	Defense Distribution, Region West, San Joaquin, CA	MIPR	CECOM	Jan-98	Jan-98					
EI&T - Europe										
FY00	TBS	TBD	CECOM	Jan-00	Mar-00	VAR	VAR			
FY01	TBS	TBD	CECOM	Jan-01	Mar-01	VAR	VAR			

REMARKS:

Exhibit P-5, Weapon OPA Cost Analysis		Appropriation/ Budget Activity/Serial No: OTHER PROCUREMENT /Communications and Electronics Equipment / 52182948			P-1 Line Item Nomenclature: TERRESTRIAL TRANSMISSION PACIFIC (BU2100)			Weapon System Type:			Date: February 1999			
OPA Cost Elements		ID	FY 98			FY 99			FY 00			FY 01		
		CD	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
			\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000
PACIFIC:														
Digital Microwave Phase II - EFI&T	A		4015	1	4015									
KG 189 Equipment for DMU	A		686	14	49									
EKIP Engineering	A		315	VAR	VAR									
Emergency Action Facility (EAF) Upgrade	A		3975	VAR	VAR									
Korea Comm Infrastructure Upgrade	A		8700	1	8700									
KCIU IBOM	A		200	VAR	VAR									
DMU BOM						200	VAR	VAR						
Battlefield Visualization System	A		1000	1	1000									
Contractor Support	A		85	VAR	VAR									
Engineering Support	A					265			265			265		
Project Management	A					125			125			130		
DMU Phase II	A					300	VAR	VAR						
KCIU Phase IV	A								621	VAR	VAR	621	VAR	VAR
TOTAL			18976			890			1011			1016		

Exhibit P-5a, Budget Procurement History and Planning

Date: February 1999

Appropriation / Budget Activity/Serial No: OTHER PROCUREMENT /Communications and Electronics Equipment / 52182948				Weapon System Type:		P-1 Line Item Nomenclature: TERRESTRIAL TRANSMISSION PACIFIC (BU2100)				
WBS Cost Elements: Fiscal Years	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY Each	Unit Cost \$000	Specs Avail Now?	Date Revsn Avail	RFP Issue Date
PACIFIC: Digital Microwave Phase II - EFI&T FY98	Harris Corp, Melbourne, FL	C/FP	CECOM	Nov-97	Dec-97	1	4015			
KG-189 FY98	Motorola Space Systems Scottsdale, AZ	MIPR	NSA	Jan-98	Mar-98	14	49			
Emergency Action Facility (EAF) Upgrade FY98	Eighth US Army (EUSA)	MIPR	CECOM	VAR*	Jun-98	VAR				
Korea Comm Infrastructure Upgrade FY98 FY00 FY01	Lucent Technologies, Charlotte, NC	MIPR	GSA	Mar-98	Jul-98	1	8700 621 621			
Battlefield Visualization System FY98	TBS	MIPR	Eighth US Army	Sep-98	Dec-99	1				
KCIU IBOM FY98	In-House	MIPR	ISL Sig BDE	Jan-98	Mar-98					
DMU BOM FY99	First Signal Brigade	MIPR		Jan-99	Mar-99		200			

REMARKS: *Numerous contracts awarded by EUSA.

Exhibit P-40, Budget Item Justification Sheet

Date:

February 1999

Appropriation / Budget Activity/Serial No:

OTHER PROCUREMENT / 2 / Communications and Electronics Equipment

P-1 Item Nomenclature:

BASE SUPPORT COMMUNICATIONS (BU4160)

Program Elements for Code B Items:

Code:

Other Related Program Elements:

	Prior Years	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	To Complete	Total Prog
Proc Qty												
Gross Cost	157.4	2.6	2.7	1.1	1.8	1.9	1.9	1.9	7.4	7.4	0.0	186.2
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	157.4	2.6	2.7	1.1	1.8	1.9	1.9	1.9	7.4	7.4	0.0	186.2
Initial Spares												
Total Proc Cost	157.4	2.6	2.7	1.1	1.8	1.9	1.9	1.9	7.4	7.4	0.0	186.2
Flyaway U/C												
Wpn Sys Proc U/C												

DESCRIPTION: This program funds the Army-wide requirements for base support radio systems and Test, Measurement and Diagnostic Equipment (TMDE) for US Army Signal Command (USASC). Base support radios are used by installation military police, fire departments, medical personnel and other emergency response activities to coordinate and support emergency response efforts and for critical communications support during mobilization, deployment and split-based operations. Base support radio systems will permit users to share frequencies, thus conserving scarce radio spectra and also provide secure voice/data transmission and access to local telephone systems from portable hand-held radios. The Federal Communications Commission (FCC) and National Telecommunications Information Administration (NTIA) have drastically reduced the available frequencies throughout CONUS. In Korea, the Ministry of Communications (MOC) will implement Phase 2 changes to operational bandwidth and channel separation criteria for Very High Frequency (VHF) Commercial Land Mobile Radios (CLMR) by FY 04, at which time existing radios will become obsolete because they cannot be modified to add the new frequency. Mission capability of law enforcement, security and other base forces during mobilization, deployment and split-base operations would be greatly constrained without adequate communications capability. This program also supports the replacement of obsolete, nonsupportable TMDE and interim mission support for command, control, communications and computers worldwide. The USASC TMDE inventory consists of general purpose and special purpose test equipment. This command's capability is maintained through phased replacement of obsolete, nonsupportable TMDE. Additionally, long lead times for acquisition of new TMDE results in this program supporting interim acquisition of special purpose TMDE to satisfy mission requirements. Densities of TMDE supported by this program are determined by Defense Information Systems Agency (DISA) standards and maintenance support plans for information systems.

JUSTIFICATION: FY 00/01 funds upgrade or replace base support radio systems that US Army Forces Command (FORSCOM) and Eighth US Army (EUSA) have identified as critical requirements. Funds will also purchase spectrum analyzers and associated hardware to allow deployable tactical satellite units to more precisely tune the transmission between the earth terminal and satellite. This is a new requirement based on increased use of satellite bandwidth which has narrowed the bandwidth availability. This equipment will be used by soldiers to monitor the signal so that corrections can be made immediately on-site. The only equipment currently fielded to perform this work is at depot maintenance facilities. There continues to be a requirement at the maintenance facilities to use these analyzers to recalibrate equipment that has been repaired.

Exhibit P-5, Weapon OPA Cost Analysis		Appropriation/ Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment			P-1 Line Item Nomenclature: BASE SUPPORT COMMUNICATIONS (BU4160)			Weapon System Type:			Date: February 1999			
OPA Cost Elements		ID	FY 98			FY 99			FY 00			FY 01		
		CD	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
			\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000
TMDE Replacement/Quality Assurance TMDE	A		678	VAR	VAR	672	VAR	VAR	1408	VAR	VAR	1432	VAR	VAR
Non-Tactical Trunked Radio Sys (FORSCOM)	A		1107	1	1107	290	1	290	282	1	282	280	1	280
Commercial Land Mobile EUSA Radio Sys	A		153	1	153	159	1	159	146	1	146	144	1	144
Secure Communications Capability Upgrade (EUCOM)	A		800	VAR	VAR									
TOTAL			2738			1121			1836			1856		

Exhibit P-5a, Budget Procurement History and Planning

Date: February 1999

Appropriation / Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment				Weapon System Type:		P-1 Line Item Nomenclature: BASE SUPPORT COMMUNICATIONS (BU4160)					
WBS Cost Elements: Fiscal Years	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY Each	Unit Cost \$000	Specs Avail Now?	Date Revsn Avail	RFP Issue Date	
TMDE Replacement/Quality Assurance TMDE											
FY 98	VAR*	VAR*	CECOM	VAR*	VAR*	VAR	VAR	YES			
FY 99	TBS	VAR*	CECOM	VAR*	VAR*	VAR	VAR	YES	NO		
FY 00	TBS	VAR*	CECOM	VAR*	VAR*	VAR	VAR	YES	NO		
FY 01	TBS	VAR*	CECOM	VAR*	VAR*	VAR	VAR	YES	NO		
Non-Tactical Trunked Radio Sys (FORSCOM)											
FY 98	MOTOROLA, Hanover, MD	*Option	CECOM	Dec-97	Mar-98	VAR	VAR	YES	NO		
FY 99	TBS	*Option	TBS	Mar-99	Jun-99	VAR	VAR	YES	NO		
FY 00	TBS	*Option	TBS	Jan-00	Mar-00	VAR	VAR	NO	NO		
FY 01	TBS	*Option	TBS	Jan-01	Mar-01	VAR	VAR	NO	NO		
Commercial Land Mobile EUSA Radio System											
FY 98	MOTOROLA, Honolulu, HI	C/FP	USACCK	Nov-97	Feb-98	VAR	VAR	YES	NO		
FY 99	TBS	C/FP	USACCK	Feb-99	Apr-99	VAR	VAR	YES	NO		
FY 00	TBS	C/FP	USACCK	Dec-99	Mar-00	VAR	VAR	YES	NO		
FY 01	TBS	C/FP	USACCK	Dec-00	Mar-01	VAR	VAR	YES	NO		
Secure Communications Capabilities Upgrade (EUCOM)											
FY 98	MOTOROLA, Heinrich and Taunusstein, Republic of Germany	C/FP	Wiesbaden Regional Contracting Center	Sep-98	Nov-98	VAR	VAR	YES			

REMARKS: CECOM - US Army Communication and Electronics Command, Ft Monmouth, NJ
 VAR - Various sites require different levels and types of equipment.
 VAR*- TMDE efforts provide replacement test equipment to support the Army Signal Command mission.
 State of the art test equipment is contracted from a variety of manufacturers for various sites.
 *Option - Competitive Contract with fixed price options.

USACCK - US Army Contracting Command Korea

Exhibit P-40, Budget Item Justification Sheet

Date: February 1999

Appropriation / Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment
 P-1 Item Nomenclature: ARMY DISN ROUTER (BU0300)

Program Elements for Code B Items: Code: Other Related Program Elements:

	Prior Years	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	To Complete	Total Prog
Proc Qty												
Gross Cost	47.2	2.1	2.9	3.6	3.7	4.4	5.0	6.6	6.7	6.9		89.0
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	47.2	2.1	2.9	3.6	3.7	4.4	5.0	6.6	6.7	6.9		89.0
Initial Spares												
Total Proc Cost	47.2	2.1	2.9	3.6	3.7	4.4	5.0	6.6	6.7	6.9		89.0
Flyaway U/C												
Wpn Sys Proc U/C												

DESCRIPTION: The Army Defense Information System Network (DISN) Router Program (ADRP) addresses Army requirements for DISN connections. The DISN includes both the Unclassified IP Router Network (NIPRNET) and the Secret IP Router Network (SIPRNET). The ADRP includes the acquisition of routers, access servers, modems, and associated networking and management devices necessary to connect Army host computers, terminals and Local Area Networks (LANs) to the DISN. Program acquisition also includes installation, Installation Bill of Material (IBOM), training and maintenance. The routers and access servers are tailored to data requirements at each Army location and are expandable to meet changes in data requirements. The routers are also upgradable to future Army, DOD and industry standards. Reducing the number of connections required to support Army DISN requirements avoids multiple router connection charges with each associated DISN connection. The ADRP is an integral part of the Power Projection Command, Control, Communications, and Computer Infrastructure (PPC4I) initiative. The overall objectives of PPC4I are to: (1) support communications requirements of deployed forces and their access to home installation sustaining base systems, and (2) emplace information systems in a coordinated, synchronized, integrated manner, thereby optimizing funding/personnel resources and maximizing the operational benefits. PPC4I identifies the cooperative role and responsibility for installations in the active, direct execution of the National Military Strategy to project forces beyond the borders of the United States to anywhere in the world with little advance notice.

JUSTIFICATION: FY 00 funds will procure 20 Routers and 21 Access Servers. FY 01 funds will procure 24 Routers and 26 Access Servers. As a result of a funding policy change, FY 99 and out reflects project management and engineering support efforts in support of the Army DISN Router Program.

Exhibit P-5, Weapon OPA Cost Analysis		Appropriation/ Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment			P-1 Line Item Nomenclature: ARMY DISN ROUTER (BU0300)			Weapon System Type:			Date: February 1999			
OPA Cost Elements		ID	FY 98			FY 99 99			FY 00			FY 01		
		CD	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
			\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000
Routers		A	1815	*20	VAR	1720	*19	VAR	1815	*20	VAR	2178	*24	VAR
Access Servers		A	1066	*21	VAR	1066	*21	VAR	1066	*21	VAR	1320	*26	VAR
Project Management Support		A				338			339			355		
Engineering Support		A				480			480			517		
TOTAL			2881			3604			3700			4370		
* Unit costs are site specific.														

Exhibit P-5a, Budget Procurement History and Planning

Date: February 1999

Appropriation / Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment		Weapon System Type:			P-1 Line Item Nomenclature: ARMY DISN ROUTER (BU0300)					
WBS Cost Elements: Fiscal Years	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY Each	Unit Cost \$000	Specs Avail Now?	Date Revsn Avail	RFP Issue Date
Routers **										
FY 98	OA0 Corp.	C/FP	CECOM	Mar-98	VAR*	20	VAR	YES		
FY 99	OA0 Corp.	C/FP	CECOM	Feb-99	VAR*	19	VAR	YES		
FY 00	OA0 Corp.	C/FP	CECOM	Feb-00	VAR*	20	VAR	YES		
FY 01	OA0 Corp.	C/FP	CECOM	Feb-01	VAR*	24	VAR	YES	NO	
Access Servers **										
FY 98	OA0 Corp.	C/FP	CECOM	Mar-98	VAR*	21	VAR	YES		
FY 99	OA0 Corp.	C/FP	CECOM	Feb-99	VAR*	21	VAR	YES		
FY 00	OA0 Corp.	C/FP	CECOM	Feb-00	VAR*	21	VAR	YES		
FY 01	OA0 Corp.	C/FP	CECOM	Feb-98	VAR*	26	VAR	YES	NO	

REMARKS: OA0, Greenbelt, MD
 * Multiple awards and delivery orders/dates throughout the FY.
 ** Site specific.

Exhibit P-40, Budget Item Justification Sheet

Date: February 1999

Appropriation / Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment
 P-1 Item Nomenclature: ELECTROMAG COMP PROG (EMCP) (BD3100)

Program Elements for Code B Items: Code: Other Related Program Elements:

	Prior Years	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	To Complete	Total Prog
Proc Qty												
Gross Cost	13.0	0.5	0.3	0.5	0.4	0.4	0.5	0.5	0.5	0.5	0.0	17.1
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	13.0	0.5	0.3	0.5	0.4	0.4	0.5	0.5	0.5	0.5	0.0	17.1
Initial Spares												
Total Proc Cost	13.0	0.5	0.3	0.5	0.4	0.4	0.5	0.5	0.5	0.5	0.0	17.1
Flyaway U/C												
Wpn Sys Proc U/C												

DESCRIPTION: The ELECTROMAGNETIC COMPATIBILITY PROGRAM (EMCP) ensures readiness and effectiveness of command, control, communications systems throughout the testing of tactical and strategic systems for electromagnetic compatibility (EMC) with other civil or defense communications-electronic (C-E) systems operating within their environment. This includes the need to conduct EMC surveys at proposed and existing C-E sites intended for upgrade or planning for frequency resources. This is done to avoid expensive reworking or retrofitting. Propagation engineering is required in designing new networks and C-E equipment. Unique computer models are developed, upgraded and maintained for calculating EMC, propagation predictions, and engineering analyses. These models perform systems analyses for: (1) line of sight; (2) high frequency skywave and groundwave; (3) meteor burst; (4) tropospheric scatter communications systems; (5) antenna performance; (6) spectrum management.

JUSTIFICATION: The EMCP requires the procurement of the following replacement and enhancement equipment to sustain the program.

- A. EMC MEASUREMENT EQUIPMENT: Used to conduct EMC surveys to characterize the EM environment. Surveys are used to measure spectrum occupancy, detect interference, and eliminate EM hazards.
- B. SPECTRUM ANALYZERS: Display and record the frequency domain and transmission characteristics of the radio frequency signals acquired.
- C. DIRECTOR OF INFORMATION MANAGEMENT (DOIM) ARMY INTERFERENCE RESOLUTION PROGRAM (AIRP) UPGRADE: These systems include hand-held direction finding equipment and computers to run frequency management software and other EM interference (EMI) software to be supplied to Army DOIMs worldwide to resolve radio frequency interference (RFI) problems. These systems will reduce the use of limited resources by correcting RFI problems at the DOIM level.

Exhibit P-40C Budget Item Justification Sheet		Date February 1999
Appropriation / Budget Activity/Serial No. OTHER PROCUREMENT / 2 / Communications and Electronics Equipment		P-1 Item Nomenclature ELECTROMAG COMP PROG (EMCP) (BD3100)
Program Elements for Code B Items	Code	Other Related Program Elements
<p>JUSTIFICATION (Continued):</p> <p>D. MICROWAVE PROPAGATION PREDICTION SYSTEM: Used to analyse the propagation characteristics and predict the reliability of a microwave communication system, including high data rate digital systems.</p> <p>E. ENGINEERING WORKSTATIONS AND PERIPHERALS: Buys computers and related equipment to perform propagation engineering analysis functions.</p> <p>F. SPECTRUM MONITORING EQUIPMENT: Buys a system that provides the capability to monitor frequency usage over a wide spectrum in real time.</p> <p>G. MEASUREMENT CONTROLLERS: Automates the performance at tests/measurements.</p>		

Exhibit P-40, Budget Item Justification Sheet

Date: February 1999

Appropriation / Budget Activity/Serial No: OTHER PROCUREMENT /Communications and Electronics Equipment / 52182948
 P-1 Item Nomenclature: WW TECH CON IMP PROG (WWTCIP) (BU3610)

Program Elements for Code B Items: Code: Other Related Program Elements:

	Prior Years	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	To Complete	Total Prog
Proc Qty												
Gross Cost	92.9	1.2	0.9	2.0	2.9	2.9	3.0	3.0	3.1	3.2	0.0	115.1
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	92.9	1.2	0.9	2.0	2.9	2.9	3.0	3.0	3.1	3.2		115.1
Initial Spares												
Total Proc Cost	92.9	1.2	0.9	2.0	2.9	2.9	3.0	3.0	3.1	3.2	0.0	115.1
Flyaway U/C												
Wpn Sys Proc U/C												

DESCRIPTION: The Worldwide Technical Control Improvement Program (WWTCIP) provides needed upgrades, expansion, and modernization of the Worldwide Defense Information Systems Network (DISN) technical control facilities in order to effect the integration and efficient operation of DCS digital transmission subsystems, and to reduce operating costs. This program provides DC power, timing and synch, line conditioning equipment, automatic technical control, digital patch and access system (DPAS), VF tactical interface, Defense Communication Systems TRI-TAC interface, and appropriate test equipment and associated hardware. WWTCIP supports worldwide communications transmission media and switching upgrades such as the DISN - Europe, Extended Korean Improvement Program (EKIP), Japan Reconfiguration and Digitization, and Defense Satellite Communications. Program also funds the automation of Technical Control Facilities, as part of the Joint Chiefs of Staff (JCS) directed Korean C4I enhancements under EKIP and Korea Communications Infrastructure upgrade (KCIU).

JUSTIFICATION: FY00 and FY01 funds will be used to continue the upgrade of TrueTime Global Positioning System Receivers to meet security requirements. Funds will also be used to continue the automation/integration of Technical Controls at sites in Europe.

Exhibit P-5, Weapon OPA Cost Analysis		Appropriation/ Budget Activity/Serial No: OTHER PROCUREMENT /Communications and Electronics Equipment / 52182948			P-1 Line Item Nomenclature: WW TECH CON IMP PROG (WWTCIP) (BU3610)			Weapon System Type:			Date: February 1999		
OPA Cost Elements	ID CD	FY 98			FY 99			FY 00			FY 01		
		TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000
Automation/Integration of Technical Controls (AIRC) Equipment	A	301	VAR	VAR									
AIRC EQUIP/Installation	A						1500	3	500	1500	3	500	
AIRC EQUIP/Installation - Germany	A				1500	1	1500						
Contractor Engineering Support	A	30											
AIRC New Equipment Training	A	14											
AIRC Engineering	A	148			165								
Tech Control Facility - Install - Ft Bragg	A	230	1	230									
Tech Control Facility - Instal - Vaihingen	A	186	1	186									
Engineering Support	A				130			130			150		
Project Management	A				230			230			230		
Matrix Switch Upgrades								1031	VAR	VAR	1006	VAR	VAR
TOTAL		909			2025			2891			2886		

Exhibit P-5a, Budget Procurement History and Planning

Date:
February 1999

Appropriation / Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment
 Weapon System Type:
 P-1 Line Item Nomenclature: WW TECH CON IMP PROG (WWTCIP) (BU3610)

WBS Cost Elements: Fiscal Years	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY Each	Unit Cost \$000	Specs Avail Now?	Date Revsn Avail	RFP Issue Date
Automation/Integration of Technical Controls Equip FY98	General Signal, Mt. Laurel, NJ	C/FP	CECOM	Jan-98	Mar-98	VAR				
AITC EQUIP/IN STL FY00	In Range Tech, Mt Laurel, NJ	C/FP	CECOM	Jan-00	Apr-00	3	500			
FY01	In Range Tech, Mt Laurel, NJ	C/FP	CECOM	Jan-01	Apr-01	3	500			
AITC EQUIP/IN STL - Germany FY99	In Range Tech, Mt Laurel, NJ	C/FP	CECOM	Jan-99	Apr-99	1	1500	Yes		
AITC New Equipment Training FY98	In House	MIPR	CECOM	Jul-98	Jul-98	VAR	VAR			
Tech Control Facility - Install FT BRAGG FY98	In-House	C/FP	504TH SIGNAL BN	Jun-98	Jun-98	1	230	Yes		
Automation/Integration of Technical Controls Tech Control Facility - Install Vaihingen FY98	JAYCOR, McLean, VA	C/FP	CECOM	Feb-98	Mar-98	1	186	Yes		
Matrix Switch FY00	In-Range	C/FP	CECOM	Jan-00	Mar-00	VAR	VAR			
FY01				Jan-01	Mar-01	VAR	VAR			

REMARKS: WR - Work Request
 CECOM - Communications-Electronics Command
 In Range Technologies was formerly General Signal
 * Site Specific

Exhibit P-40, Budget Item Justification Sheet

Date: February 1999

Appropriation / Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment
 P-1 Item Nomenclature: INFORMATION SYSTEMS (BB8650)

Program Elements for Code B Items: Code: Other Related Program Elements:

	Prior Years	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	To Complete	Total Prog
Proc Qty												
Gross Cost	804.0	48.5	60.2	84.3	56.9	58.2	82.1	81.7	91.5	80.0	0.0	1447.4
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	804.0	48.5	60.2	84.3	56.9	58.2	82.1	81.7	91.5	80.0	0.0	1447.4
Initial Spares												
Total Proc Cost	804.0	48.5	60.2	84.3	56.9	58.2	82.1	81.7	91.5	80.0	0.0	1447.4
Flyaway U/C												
Wpn Sys Proc U/C												

DESCRIPTION: This program consolidates funding for improvement/modernization of Information Systems worldwide. It encompasses nontactical telecommunications services in support of Army base operations and Information Systems for Command and Control (C2) requirements. Also, it funds acquisition of common user information systems in support of Military Construction, Army (MCA) projects.

JUSTIFICATION: The Information Systems (CONUS/Western Hemisphere) program finances upgrades to the Army's telecommunication infrastructure. It includes the MACOM telephone Modernization Program (MTMP), an integral part of the Power Projection Command Control Communication Computer Infrastructure (PPC4I) initiative which supports the communications requirements of deployed forces and their access to home installation sustaining base systems. The Information Systems (CONUS/Western Hemisphere) program also finances information infrastructure investments and modernization to support the National Guard portion of the Army Distance Learning Program. The MTMP supports replacement of aging electromechanical switches with electronic digital switches to implement the Integrated Services Digital Network (ISDN) concept and insures compatibility with public networks. The Information Systems - MCA Support program finances acquisition of information systems equipment and switch expansion equipment to be installed in conjunction with military construction projects worldwide, which are not included in the MCA funding. The Information Systems - EUCOM program finances the procurement of hardware and software to replace aging communications equipment in an effort to streamline operations and maintenance costs, improve productivity and customer service, and reduce circuit costs in Europe. The Information Systems - PACOM program continues the transition to the ISDN for the Pacific Theater, which will provide intra-base information transfer capability and common data transmission in the place of costly individual stovepipe and non-standard networks.

Exhibit P-5, Weapon OPA Cost Analysis		Appropriation/ Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment			P-1 Line Item Nomenclature: INFORMATION SYSTEMS (BB8650)			Weapon System Type:			Date: February 1999			
OPA Cost Elements		ID	FY 98			FY 99			FY 00			FY 01		
		CD	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
			\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000
INFORMATION SYSTEMS (CONUS/WESTERN HE			53450			56149			50644			51879		
INFORMATION SYSTEMS (EUCOM)			386			15445			421			432		
INFORMATION SYSTEMS (PACOM)			829			6584			896			884		
INFORMATION SYSTEMS (MCA SUPPORT)			5580			6102			4954			5001		
TOTAL			60245			84280			56915			58196		

Exhibit P-40, Budget Item Justification Sheet

Date: February 1999

Appropriation / Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment
 P-1 Item Nomenclature: INFORMATION SYSTEMS (CONUS/WESTERN HEM) (BB8700)

Program Elements for Code B Items: Code: Other Related Program Elements:

	Prior Years	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	To Complete	Total Prog
Proc Qty												
Gross Cost	504.0	37.8	53.4	56.1	50.6	51.9	75.4	74.8	83.9	71.7		1059.1
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	504.0	37.8	53.4	56.1	50.6	51.9	75.4	74.8	83.9	71.7		1059.1
Initial Spares												
Total Proc Cost	504.0	37.8	53.4	56.1	50.6	51.9	75.4	74.8	83.9	71.7		1059.1
Flyaway U/C												
Wpn Sys Proc U/C												

DESCRIPTION: This budget line includes efforts in support of the MACOM Telephone Modernization Program (MTMP) and the European Telephone Switch (ETS) upgrades. MTMP is an integral part of the Power Projection Command, Control, Communications and Computers Initiative (PPC4I). The overall objective of PPC4I is to: (1) support communication requirements of deployed forces and their access to home installation sustaining base systems; and (2) to emplace Information Systems in a coordinated, synchronized, integrated manner, thereby optimizing funding/personnel resources and maximizing the operational benefits. PPC4I identifies the cooperative role and responsibility for installations in the active, direct execution of the National Military Strategy to project forces beyond the borders of the United States to anywhere in the world with little advance notice. The MTMP started in FY 83 to replace the old Dial Central Offices with state-of-the-art digital switches at CONUS Army installations. Upgrading telecommunications equipment insures the most effective interface with existing public telecommunications networks and optimizes the development of evolving Department of the Army programs. MTMP is also assigned with the implementation of the Integrated Services Digital Network (ISDN) within the Army, thus supporting the most efficient utilization of bandwidth.

The ETS network replacements in support of USCINCEUR and USAREUR switching requirements, as documented in CINCEUR letter dated 9 Oct 97 and USAREUR letter dated 20 Oct 97, supports the replacement of existing Army Siemens KNS-4100 switches with state-of-the-art switches as part of the overall DISN-EUR switch replacement program.

JUSTIFICATION: FY00 funds will provide upgrades for five (5) large MTMP switches, which were delayed due to the Y2K redirection of funds. These posts are Ft Bragg, Ft Campbell, Ft Riley, Ft Benning, and Ft Gordon. These upgrades will include the SVR 4002 software and line capacity expansions to allow the switches to function efficiently and provide state-of-the-art service for the warfighter at these power projection sites. FY01 funds will provide software and hardware improvements for twelve small MTMP switches. This will allow the remainder of the switch upgrades that were deferred due to the Y2K redirection of funding to be accomplished.

Exhibit P-40C Budget Item Justification Sheet

Date

February 1999

Appropriation / Budget Activity/Serial No.

OTHER PROCUREMENT / 2 / Communications and Electronics Equipment

P-1 Item Nomenclature

INFORMATION SYSTEMS (CONUS/WESTERN HEM) (BB8700)

Program Elements for Code B Items

Code

Other Related Program Elements

EUCOM has developed an installation sequence list for the DISN-E switch replacement program. The number of switches that will be upgraded in FY00 through FY01 will vary depending on the type of switch (large multifunction, small multifunction, end office or remote switching unit) and on the price negotiated with the winning DSSMP modernization contractor.

FY99 and out reflect project management and engineering support efforts in support of the MTMP program.

Exhibit P-5, Weapon OPA Cost Analysis		Appropriation/ Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment			P-1 Line Item Nomenclature: INFORMATION SYSTEMS (CONUS/WESTERN HEM) (BB8700)			Weapon System Type:			Date: February 1999			
OPA Cost Elements		ID	FY 98			FY 99			FY 00			FY 01		
		CD	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
			\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000
MACOM Telephone Modernization Program (MTMP): (MU2Z)														
Digital Switching System		A							22150	*5	VAR	23383	*12	VAR
MTMP Options/Modifications		A	122	*VAR	VAR	500	*VAR	VAR	500	*VAR	VAR	500	*VAR	VAR
Project Management Support		A				2039			2056			2060		
Engineering Support		A				1435			1441			1463		
Year 2K Software/Hardware		A	21907	*13	VAR	42396	*29	VAR						
EOC Upgrade - Ft Bragg (FORSCOM)		A	762	1	762									
HQ PBX System (MEPCOM)		A	392	1	392									
DISTANCE LEARNING (DCSOPS) Networks		A	17902	*VAR	VAR									
Class Rooms			7419	*VAR	VAR									
Operations			4946	*VAR	VAR									
DISN EUROPE Switch Upgrade (MXKA)		A				9779	*VAR	VAR	20056	*VAR	VAR	20032	*VAR	VAR
Project Management Support		A							1525			1525		
Engineering Support		A							2916			2916		
TOTAL			53450			56149			50644			51879		
*Quantity is purchased at various unit costs.														

Exhibit P-5a, Budget Procurement History and Planning

Date: February 1999

Appropriation / Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment				Weapon System Type:		P-1 Line Item Nomenclature: INFORMATION SYSTEMS (CONUS/WESTERN HEM) (BB8700)					
WBS Cost Elements: Fiscal Years	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY Each	Unit Cost \$000	Specs Avail Now?	Date Revsn Avail	RFP Issue Date	
MACOM Telephone Modernization Prog (MTMP)											
Digital Switching System											
FY 00	DSSMP, LTLCS	OPT/C/FP	CECOM	Jan-00	5 *	VAR	VAR	YES	NO		
FY 01	DSSMP, LTLCS	OPT/C/FP	CECOM	Jan-01	12 *	VAR	VAR	YES	NO		
MTMP Options / Modifications											
FY 98	GTE, DSSMP, LTLCS	OPT/C/FP	CECOM	Jun-98	VAR *	VAR	VAR	YES			
FY 99	GTE, DSSMP, LTLCS	OPT/C/FP	CECOM	Jun-99	VAR *	VAR	VAR	YES			
FY 00	DSSMP, LTLCS	OPT/C/FP	CECOM	Jun-00	VAR *	VAR	VAR	YES			
FY 01	DSSMP, LTLCS	OPT/C/FP	CECOM	Jun-01	VAR *	VAR	VAR	YES	NO		
YEAR 2K SOFTWARE/HARDWARE UPGRADE											
FY98	GTE, DSSMP	C/FP	CECOM	Feb-98	13**	13	VAR	YES	NO		
FY99	DSSMP	C/FP	CECOM	Oct-98	29**	29	VAR	YES	NO		
DISTANCE LEARNING [DCSOPS]											
FY98	VAR	C/FP	GSA Schedule	VAR	VAR	VAR	VAR	YES			
DISN Europe Switch Upgrade											
FY99	DSSMP	C/FP/OPT	CECOM	Feb-99	Aug-99	VAR	VAR	YES			
FY00	DSSMP	C/FP/OPT	CECOM	Feb-00	Aug-00	VAR	VAR	YES			
FY01	DSSMP	C/FP/OPT	CECOM	Feb-01	Aug-98	VAR	VAR	YES			

REMARKS: GTE, Needham, MA
 * Multiple award and delivery dates throughout FY
 ** Site specific. Unit cost varies depending on switch size and use of new or relocated switch.
 DSSMP = Digital Switch Systems Modernization Program (19 Contracts)
 LTLCS = Long Term Life Cycle Support Contract (3 Contracts)

Exhibit P-40, Budget Item Justification Sheet

Date:

February 1999

Appropriation / Budget Activity/Serial No:

OTHER PROCUREMENT / 2 / Communications and Electronics Equipment

P-1 Item Nomenclature:

INFORMATION SYSTEMS (EUCOM) (BB8800)

Program Elements for Code B Items:

Code:

Other Related Program Elements:

	Prior Years	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	To Complete	Total Prog
Proc Qty												
Gross Cost	151.0	0.4	0.4	15.4	0.4	0.4	0.9	0.9	1.3	1.7		172.8
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	151.0	0.4	0.4	15.4	0.4	0.4	0.9	0.9	1.3	1.7		172.8
Initial Spares												
Total Proc Cost	151.0	0.4	0.4	15.4	0.4	0.4	0.9	0.9	1.3	1.7		172.8
Flyaway U/C												
Wpn Sys Proc U/C												

DESCRIPTION: The European Telephone Switch (ETS) network switch replacements in support of USCINCEUR and USAREUR switching requirements, as documented in CINCEUR letter dated 9 Oct 97 and USAREUR letter dated 20 Oct 97, supports the replacement of existing Army Siemens KNS-4100 switches with state-of-the-art switches as part of the overall DISN-EUR switch replacement program.

JUSTIFICATION: EUCOM has developed an Installation Sequence List (ISL) for the DISN-E switch replacement program. The number of switches that will be upgraded in FY00 and FY01 will vary depending on the type of switch (large multifunction, small multifunction, end office or remote switching unit) and on the price negotiated with the winning DSSMP modernization contractor.

The FY99 and out reflect project management and engineering support efforts in support of the DISN-E program.

Exhibit P-5, Weapon OPA Cost Analysis		Appropriation/ Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment			P-1 Line Item Nomenclature: INFORMATION SYSTEMS (EUCOM) (BB8800)			Weapon System Type:			Date: February 1999			
OPA Cost Elements		ID	FY 98			FY 99			FY 00			FY 01		
		CD	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
			\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000
Communication Hardware/Software Upgrades		A	386	VAR	VAR									
European Switch Upgrade		A				12304	VAR	VAR						
Project Management Support		A				2425			421			432		
Engineering Support		A				716								
TOTAL			386			15445			421			432		

Exhibit P-5a, Budget Procurement History and Planning

Date:
February 1999

Appropriation / Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment		Weapon System Type:			P-1 Line Item Nomenclature: INFORMATION SYSTEMS (EUCOM) (BB8800)					
WBS Cost Elements: Fiscal Years	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY Each	Unit Cost \$000	Specs Avail Now?	Date Revsn Avail	RFP Issue Date
Communication Hardware/Software Upgrades FY 98	ALCATEL	OPTION	5TH SIGNAL COMMAND	Mar-98	May-98	VAR	VAR	YES		
European Switch Upgrade FY 99	DSSMP	C/FP/OPT	CECOM	Mar 99*	Aug-99	VAR	VAR	YES		

REMARKS:

ALCATEL, Dallas, TX
 VAR*-multiple contracts awarded/delivered throughout year.
 DSSMP = Digital Switch Systems Modernization Program (19 Contracts)

Exhibit P-40, Budget Item Justification Sheet

Date: February 1999

Appropriation / Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment
 P-1 Item Nomenclature: INFORMATION SYSTEMS (PACOM) (BB8900)

Program Elements for Code B Items: Code: Other Related Program Elements:

	Prior Years	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	To Complete	Total Prog
Proc Qty												
Gross Cost	110.0	0.8	0.8	6.6	0.9	0.9	0.9	0.9	0.9	1.0		123.7
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	110.0	0.8	0.8	6.6	0.9	0.9	0.9	0.9	0.9	1.0		123.7
Initial Spares												
Total Proc Cost	110.0	0.8	0.8	6.6	0.9	0.9	0.9	0.9	0.9	1.0		123.7
Flyaway U/C												
Wpn Sys Proc U/C												

DESCRIPTION: Information Systems (PACOM) encompasses non-tactical telecommunications requirements to support Army base operations and U.S. Military Command and Control (C2) requirements in the Pacific theater, including upgrade of fixed plant telephone systems in Korea and Japan. The upgrades of the Korea Telephone Network (KTN) and Japan Telephone Network (JTN) will modernize the Army telephone systems in the respective countries. The switch hardware and software will be upgraded to provide integrated voice and data capabilities, as well as to provide the added line capacity required to satisfy critical Korean warfighter missions.

JUSTIFICATION: The FY 00 funds will procure software and hardware upgrades for the Korean telephone switches. The FY 01 funds will procure software and hardware upgrades at the host switches in Korea. The upgrades will provide Integrated Services Digital Network (ISDN) capability for the five indicated JTN switches in conjunction with the Year 2000 upgrades that are being implemented at the sites. The upgrades will provide video services over a single integrated connection. Additionally, the upgraded switches will operate more efficiently.

(ID CODE A)

Exhibit P-5, Weapon OPA Cost Analysis		Appropriation/ Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment			P-1 Line Item Nomenclature: INFORMATION SYSTEMS (PACOM) (BB8900)			Weapon System Type:			Date: February 1999			
OPA Cost Elements		ID	FY 98			FY 99			FY 00			FY 01		
		CD	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
			\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000
Korean Telephone Network (KTN), And Telephone Network Switch Upgrade		A	829	VAR	829				896	VAR	VAR	884	VAR	VAR
Year 2K and ISDN Upgrade in Japan		A				6584	7	VAR						
TOTAL			829			6584			896			884		
NOTE: The unit cost varies because it's based on the size differences of individual switches (300 - 4,000 line size) and also inflation factors.														

Exhibit P-5a, Budget Procurement History and Planning

Date: February 1999

Appropriation / Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment
 Weapon System Type:
 P-1 Line Item Nomenclature: INFORMATION SYSTEMS (PACOM) (BB8900)

WBS Cost Elements: Fiscal Years	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY Each	Unit Cost \$000	Specs Avail Now?	Date Revsn Avail	RFP Issue Date
Korean Telephone Network (KTN), And Telephone Network Switch Upgrade FY 98	GTE (LTLCS) or DSSMP	C/FP/OP	CECOM	Mar-99	Nov-99	VAR	VAR	YES		
FY 00	GTE (LTLCS) or DSSMP	C/FP/OP	CECOM	Mar-01	Nov-01	VAR	VAR	YES		
FY 01	GTE (LTLCS) or DSSMP	C/FP/OP	CECOM	Mar-02	Nov-02	VAR	VAR	YES	NO	
Year 2K and ISDN Upgrade in Japan FY 99	GTE (LTLCS)	C/FP/OP	CECOM	Oct-98	Jan-99	7	VAR	YES		

REMARKS: KTN = Korean Telephone Network
 GTE, Needham Heights, MA
 ISDN = Integrated Services Digital Network
 BCS = Batch Change Supplement
 SALC=Sacramento Air Logistics Center, Sacramento, CA
 EUSA = Eighth US Army

JTN = Japan Telephone Network
 BBN, Cambridge, MA

Exhibit P-40, Budget Item Justification Sheet

Date: February 1999

Appropriation / Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment
 P-1 Item Nomenclature: INFORMATION SYSTEMS (MCA SUPPORT) (BB1400)

Program Elements for Code B Items: Code: Other Related Program Elements:

	Prior Years	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	To Complete	Total Prog
Proc Qty												
Gross Cost	39.0	9.5	5.6	6.1	5.0	5.0	5.0	5.2	5.5	5.6		91.5
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	39.0	9.5	5.6	6.1	5.0	5.0	5.0	5.2	5.5	5.6		91.5
Initial Spares												
Total Proc Cost	39.0	9.5	5.6	6.1	5.0	5.0	5.0	5.2	5.5	5.6		91.5
Flyaway U/C												
Wpn Sys Proc U/C												

DESCRIPTION: The program provides state-of-the-art major information system equipment such as integrated voice/data switches; Tier II computers (i.e., common user, multiple-purpose assets supporting Army installations and/or organizations); voice/data switch expansions; common user LAN transport equipment; and basic telephone instruments. This equipment is to be installed in conjunction with Military Construction, Army (MCA) projects.

JUSTIFICATION: FY 00 and FY 01 funds will support information systems requirements associated with approved MCA projects. Funding is applied to specific projects based upon mission priority, timing of construction schedules, beneficial occupancy dates (BOD), and minimum lead time required for acquisition and installation of associated information system equipment. Funding supports regulatory requirements as outlined in AR 415-15 and other applicable U.S. Army Directives. These funds are essential to ensure that information systems are installed in sync with Corps of Engineer construction schedules. FY 00 funds will support IS requirements for the National Ground Intelligence Center. They will provide for a new telephone switch, telephones and LAN equipment for the project. Additional IS support will be provided for a remote switching unit for Fort Bragg in support of the whole barracks renewal program. The remaining funds will provide IS support for an additional sixty eight (68) approved MCA projects. FY01 funds will support IS requirements for two (2) new telephone switches at Fort Irwin in support of a Command and Control MCA project. The remaining funds will provide IS support to an additional seventy-one (71) approved MCA projects.

Exhibit P-5, Weapon OPA Cost Analysis		Appropriation/ Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment			P-1 Line Item Nomenclature: INFORMATION SYSTEMS (MCA SUPPORT) (BB1400)			Weapon System Type:			Date: February 1999			
OPA Cost Elements		ID	FY 98			FY 99			FY 00			FY 01		
		CD	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
			\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000
MCA PROJECTS														
Telephone Switch	A		933	1	933	4500	1	4500	2000	1	2000	2000	2	1000
Switch Upgrades	A		630	12	VAR	175	12	VAR	983	51	VAR	1093	48	VAR
Telephone System	A		380	18	VAR	208	10	VAR	500	70	VAR	424	72	VAR
Engineering	A		800	1	800	800	1	800	800	1	800	800	1	800
LAN Transport System	A		293	13	VAR	419	8	VAR	671	48	VAR	684	58	VAR
Information System Upgrade Eisenhower Hall, Fort McNair (NDU)	A		2544	1	2544									
TOTAL			5580			6102			4954			5001		

Exhibit P-5a, Budget Procurement History and Planning

Date:
February 1999

Appropriation / Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment				Weapon System Type:		P-1 Line Item Nomenclature: INFORMATION SYSTEMS (MCA SUPPORT) (BB1400)				
WBS Cost Elements: Fiscal Years	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY Each	Unit Cost \$000	Specs Avail Now?	Date Revsn Avail	RFP Issue Date
Telephone Switch										
FY 98	HALIFAX/DSSMP	C/FP	ISEC-FREO	VAR	VAR	1	933	YES		
FY 99	GTE LTLCS/DSSMP	C/FP	ISEC-FREO	VAR	VAR	1	4500	YES		
FY 00	GTE LTLCS/DSSMP	C/FP	ISEC-FREO	VAR	VAR	1	2000	YES		
FY 01	GTE LTLCS/DSSMP	C/FP	ISEC-FREO	VAR	VAR	2	1000	YES		
Switch Upgrades										
FY 98	VAR	OPTION**	ISEC-FREO	VAR	VAR	12	VAR	YES		
FY 99	TBS	OPTION**	ISEC-FREO	VAR	VAR	12	VAR	YES		
FY 00	TBS	OPTION**	ISEC-FREO	VAR	VAR	51	VAR	YES		
FY 01	TBS	OPTION**	ISEC-FREO	VAR	VAR	48	VAR	YES		
Telephone System										
FY 98	VAR	C/FP	ISEC-FREO	VAR	VAR	18	VAR	YES		
FY 99	TBS	C/FP	ISEC-FREO	VAR	VAR	10	VAR	YES		
FY 00	TBS	C/FP	ISEC-FREO	VAR	VAR	70	VAR	YES		
FY 01	TBS	C/FP	ISEC-FREO	VAR	VAR	72	VAR	YES		
Engineering										
FY 98	SAIC	C/FP	ISEC-FREO	VAR	VAR	1	800			
FY 99	GOVERNMENT/SAIC	C/FP	ISEC-FREO	VAR	VAR	1	800			
FY 00	GOVERNMENT/SAIC	C/FP	ISEC-FREO	VAR	VAR	1	800			
FY 01	GOVERNMENT/SAIC	C/FP	ISEC-FREO	VAR	VAR	1	800			

REMARKS: * Site Specific. Multiple contracts are awarded to multiple contractors throughout the year based on Corps of Engineers contracts, construction start dates, and Beneficial Occupancy Dates.
 ** Option to existing C/FP contracts
 VAR: ISEC-CONUS supports numerous projects awarded by the Corps of Engineers (COE) throughout the FY. Unit costs vary by project.

Exhibit P-5a, Budget Procurement History and Planning

Date: February 1999

Appropriation / Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment		Weapon System Type:			P-1 Line Item Nomenclature: INFORMATION SYSTEMS (MCA SUPPORT) (BB1400)					
WBS Cost Elements: Fiscal Years	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY Each	Unit Cost \$000	Specs Avail Now?	Date Revsn Avail	RFP Issue Date
LAN Transport System										
FY 98	VAR	C/FP	ISEC-FREO	VAR	VAR	13	VAR	YES		
FY 99	TBS	C/FP	ISEC-FREO	VAR	VAR	8	VAR	YES		
FY 00	TBS	C/FP	ISEC-FREO	VAR	VAR	48	VAR	YES		
FY 01	TBS	C/FP	ISEC-FREO	VAR	VAR	58	VAR	YES		
Information System Upgrade Eisenhower Hall, Fort McNair (NDU) FY 98	Ellerby Beckett, Inc.	C/FP	COE	Nov-97	Apr-98	VAR	VAR	YES		

REMARKS: Site Specific. Multiple contracts are awarded to multiple contractors throughout the year based on Corps of Engineers contracts, construction start dates, and Beneficial Occupancy Dates.
 VAR: ISEC-CONUS supports numerous projects awarded by the Corps of Engineers (COE) throughout the FY. Unit costs vary by project.
 Ellerby Beckett, Inc., Washington DC

Exhibit P-40, Budget Item Justification Sheet

Date: February 1999

Appropriation / Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment
 P-1 Item Nomenclature: DEFENSE MESSAGE SYSTEM (DMS) (BU3770)

Program Elements for Code B Items: Code: Other Related Program Elements:

	Prior Years	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	To Complete	Total Prog
Proc Qty												
Gross Cost	181.3	6.3	8.8	16.7	18.5	11.8	11.9	11.9	0.0	0.0	0.0	267.1
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	181.3	6.3	8.8	16.7	18.5	11.8	11.9	11.9	0.0	0.0	0.0	267.1
Initial Spares												
Total Proc Cost	181.3	6.3	8.8	16.7	18.5	11.8	11.9	11.9	0.0	0.0	0.0	267.1
Flyaway U/C												
Wpn Sys Proc U/C												

DESCRIPTION: The Defense Message System (DMS) provides Y2K compliant regional, installation level and user interfaces to DOD record communications services Armywide. In Dec 1999, the program emphasis will transition from Sustaining Base to Tactical. The AUTODIN Mail Server (AMS) Desktop Interface to Automatic Digital Network (AUTODIN) Host (DINAH), Automated Special Security Information System Terminal (ASSIST) and other AUTODIN terminals are DMS Phase I actions. Phase I is completed. Phase II focuses on the full scale implementation of Consultative Committee on International Telegraphy and Telephony (CCITT) standardized X.400/X.500 messaging products and the phase down of the AUTODIN system. Implementation of DMS replaces AUTODIN. DMS will be the Army's primary messaging system. The new message system will feature: (1) A user operated service concept, (2) A single form of message service using a simplified message format, (3) Multilevel secure processing and (4) Automated local distribution via information transfer networks.

JUSTIFICATION: FY 00/01 funds will continue to procure the Tactical Messaging System (TMS) and DMS compliant components off the Air Force sponsored DMS Government Open System Interconnection Profile (GOSIP) contract. Once procured and fielded, these components, which consist of the User Agent (UA) e-mail software package and Subordinate Mail Transfer Agent (SMTA) SW/HW, will extend DMS to the battlefield in support of the Warfighter.

Exhibit P-5, Weapon OPA Cost Analysis		Appropriation/ Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment			P-1 Line Item Nomenclature: DEFENSE MESSAGE SYSTEM (DMS) (BU3770)			Weapon System Type:			Date: February 1999			
OPA Cost Elements		ID	FY 98			FY 99			FY 00			FY 01		
		CD	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
			\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000
Engineer, Furnish, Install & Test DMS GOSIP Components to include: User Agent (UA) e-mail Subordinate Mail Transfer Agent (SMTA)		A	8554	VAR*	VAR*	5633	VAR*	VAR*	2147	VAR*	VAR*	1534	VAR*	VAR*
Tactical Messaging System (TMS)		A				10141	VAR*	VAR*	16307	VAR*	VAR*	10297	VAR*	VAR*
Secure Network Servers (SNS)		A	215	5	43	903	21	43						
*Unit cost and quantities vary by configuration and site.														
TOTAL			8769			16677			18454			11831		

Exhibit P-5a, Budget Procurement History and Planning

Date:
February 1999

Appropriation / Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment				Weapon System Type:		P-1 Line Item Nomenclature: DEFENSE MESSAGE SYSTEM (DMS) (BU3770)					
WBS Cost Elements: Fiscal Years	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY Each	Unit Cost \$000	Specs Avail Now?	Date Revsn Avail	RFP Issue Date	
Engineer, Furnish, Install & Test DMS GOSIP Components*											
FY 98	Lockheed Martin	C/FP/Optn	USAF	Apr-98	VAR**	VAR	VAR	YES			
FY 99	Lockheed Martin	C/FP/Optn	USAF	Apr-99	VAR**	VAR	VAR	YES			
FY 00	Lockheed Martin	C/FP/Optn	USAF	Apr-00	VAR**	VAR	VAR	YES			
FY 01	Lockheed Martin	C/FP/Optn	USAF	Apr-01	VAR**	VAR	VAR	YES			
Tactical Messaging System (TMS)*											
FY 99	TBS	C/FP	CECOM	Feb-99	Sep-99	VAR	VAR	YES			
FY 00	TBS	C/FP	CECOM	Nov-99	Aug-00	VAR	VAR	YES			
FY 01	TBS	C/FP	CECOM	Nov-00	Aug-01	VAR	VAR	YES			
Secure Network Servers (SNS)											
FY 98	Wang Federal Systems	C/FP	NSA	May-98	VAR**	5	43	YES			
FY 99	Wang Federal Systems	C/FP	NSA	May-99	VAR**	21	43	YES			

REMARKS:

GOSIP - Government Open System Interconnection Profile
 USAF - Gunter AF Base, Gunter, AL CA
 Lockheed Martin, Manassas, VA
 NSA - National Security Agency, Fort Meade, MD
 Wang Federal Systems, McLean, VA

*Multiple awards and delivery dates throughout the FY

Exhibit P-40, Budget Item Justification Sheet

Date: February 1999

Appropriation / Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment
 P-1 Item Nomenclature: LOCAL AREA NETWORK (LAN) (BU4165)

Program Elements for Code B Items: Code: Other Related Program Elements:

	Prior Years	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	To Complete	Total Prog
Proc Qty												
Gross Cost	129.6	17.7	10.4	10.0	100.0	90.0	140.2	175.0	122.3	128.7		923.8
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	129.6	17.7	10.4	10.0	100.0	90.0	140.2	175.0	122.3	128.7		923.8
Initial Spares												
Total Proc Cost	129.6	17.7	10.4	10.0	100.0	90.0	140.2	175.0	122.3	128.7		923.8
Flyaway U/C												
Wpn Sys Proc U/C												

DESCRIPTION: The Common User Installation Transport Networks (CUITN), fielded under this program, are part of the Installation Information Transfer Systems Improvement Program (IITSIP) designed to improve data communications transfer capabilities at Army installations. This program provides state-of-the-art, high-speed, common-user, data backbone networks and includes the hardware, software and interfaces to both site internal and external systems, networks and terminals, and turnkey approach to the implementation of these networks. The backbone network provides the capability for connections to site workstations, data processing installations, mainframes, and networks while providing access to gateways on the site and the Defense Information Systems Network (DISN) Wide Area Network (WAN) external to the site. The installation backbone CUITN program will ensure a smooth transition to the Army's long-term objective architecture. The Army has increased the number of computers in use at installations Army wide. Fielding of these systems and workstations coupled with changes to and fielding of interactive databases for Automated Information Systems, which require the movement of large amounts of data quickly, has placed the need for increased services on installation information transfer systems. Users, whether in garrison or deployed in support of CONUS-Centric Power Projection Strategy, require access to databases, Data Processing Centers, other networks on their home installation, and common user capabilities of the DISN. This expansion of data transfer has overloaded the installation data transfer capabilities. To satisfy installation data transfer requirements, it is necessary to upgrade the base communications infrastructure via replacement/upgrade of switches/cable facilities and procurement of CUITN backbone networks. The CUITN backbone will complement the Integrated Services Digital Network (ISDN) when this capability becomes available. The CUITN backbone provides the means for transferring information within the confines of the Army's posts, camps and stations and will be provided by a mix of resources, depending on the switching technology used at an installation, the installation's information transfer requirements, and availability of funds. The technical make-up of each backbone will be determined on a case-by-case basis and may have gateways to the DISN, tenant organizations (including tactical units), and the Open Systems Interconnection (OSI) protocols as identified by the Government OSI Profile (GOSIP).

Exhibit P-40C Budget Item Justification Sheet

Date
February 1999

Appropriation / Budget Activity/Serial No.
OTHER PROCUREMENT / 2 / Communications and Electronics Equipment

P-1 Item Nomenclature
LOCAL AREA NETWORK (LAN) (BU4165)

Program Elements for Code B Items

Code

Other Related Program Elements

The CUITN Program is an integral part of the Power Projection Command Control Communications, and Computer Infrastructure (PPC4I) initiative. The overall objectives of PPC4I are to: (1) support communications requirements of deployed forces and their access to home installation sustaining base systems; and (2) emplace Information Systems in a coordinated, synchronized, integrated manner, thereby optimizing funding/personnel resources and maximizing the operational benefits. PPC4I identifies the cooperative role and responsibility for installations in the active, direct execution of the National Military Strategy to project forces beyond the borders of the United States to anywhere in the world with little advance notice.

JUSTIFICATION: FY00 funds will engineer, furnish and install installation backbone local area networks at three (3) sites at the Minimum Essential Requirements (MER) level and eight (8) sites at the Initial Critical Capability (ICC) level on the Installation Sequence List (ISL), and continue/complete implementation at various sites. FY 01 funds will engineer, furnish and install installation backbone local area networks at five (5) sites at the MER level and five (5) sites at the ICC level on the ISL, and continue/complete implementation at various sites. The CUITN effort is a continuing project. Installations to be upgraded are determined by the number and locations completed in the prior year. LAN installations are critical to support the ever increasing data transfer requirements attributable to actions supporting key Army wartime doctrines and the drawdown of Conventional Forces, Europe. The Army is currently using outdated systems, obsolete, overstressed telephone resources, and expensive, non-standard measures to satisfy the increasing data communications requirements. High speed, backbone LANs will be installed to modernize site data transport capability, improve connectivity, standardize transport networks, and increase capacity for key Army systems such as Defense Message System (DMS), Installation Support Module (ISM), Joint Computer-Aided Acquisition and Logistics System (JCALS), Combined Health Care System (CHCS), Global Combat Support System Army (GCSSA) and Distance Learning. FY 99 and out reflects both project management and engineering efforts in support of the CUITN Program.

Installation Backbone Local Area Network funds will continue to provide the second level of PPC4I connectivity identified as Minimum Essential Requirements (MERs) through site number 43 on DA's Installation Sequence List. Funding for Initial Critical Capability (ICC), (first level of PPC4I connectivity) for FY00 and out will provide a "bare-bones" backbone, i.e., a "starter kit" for the remaining sites 44-95 on DA's Installation Sequence List.

Exhibit P-5, Weapon OPA Cost Analysis		Appropriation/ Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment			P-1 Line Item Nomenclature: LOCAL AREA NETWORK (LAN) (BU4165)			Weapon System Type:			Date: February 1999			
OPA Cost Elements		ID	FY98			FY99			FY00			FY01		
		CD	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
			\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000
Installation Backbone Local Area Network		A	10355*	1	VAR	6413*	1	VAR	29597*	3	VAR	42532	5	VAR
Initial Critical Capability (ICC)		A							64270	8	VAR	40961	5	VAR
Project Management Support		A				1219			1513			1638		
Engineering Support		A				2319			4638			4869		
TOTAL			10355			9951			100018			90000		
* NOTE: Site specific and costs vary at each site.														
\$9074 was reprogrammed for Y2K in FY98														

Exhibit P-5a, Budget Procurement History and Planning

Date: February 1999

Appropriation / Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment				Weapon System Type:			P-1 Line Item Nomenclature: LOCAL AREA NETWORK (LAN) (BU4165)				
WBS Cost Elements: Fiscal Years	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY Each	Unit Cost \$000	Specs Avail Now?	Date Revsn Avail	RFP Issue Date	
Installation Backbone Local Area Network											
FY 98 * **	LUCENT, EDS, LOCKHEED, GTE	C/FP	CECOM/AF	Dec-97	Jul-98	1	VAR	YES			
FY 99 * **	LUCENT, EDS, LOCKHEED, GTE	C/FP	CECOM/AF	Feb-99	Aug-99	1	VAR	YES			
FY 00 * **	LUCENT, EDS, LOCKHEED, GTE	C/FP	CECOM/AF	Jan-00	Aug-00	3	VAR	YES			
FY 01 * **	LUCENT, EDS, LOCKHEED, GTE	C/FP	CECOM/AF	Jan-01	Aug-01	5	VAR	YES	NO		
Initial Critical Capability (ICC)											
FY 00 * **	DSSMP	C/FP	CECOM	Mar-00	Dec-00	8	VAR	YES			
FY 01 * **	DSSMP	C/FP	CECOM	Mar-01	Dec-01	5	VAR	YES	NO		

REMARKS: AT&T, Greensboro, NC * Multiple awards and deliveries throughout the year.
 EDS = Electronic Data Systems Corp, Herdon, VA ** Site specific/unique. Configuration varies by site.
 LORAL = Loral Federal Systems, Springfield, VA
 GTE = GTE Government System Corp, Needham, MA
 Lockheed = Lockheed Martin Federal Systems, Owego, NY
 Lucent = Lucent Technologies, Greensboro, NC
 DSSMP= Digital Switch Systems Modernization Program (19 Contracts)

Exhibit P-40, Budget Item Justification Sheet

Date: February 1999

Appropriation / Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment
 P-1 Item Nomenclature: PENTAGON INFORMATION MGT AND TELECOM (BQ0100)

Program Elements for Code B Items: Code: Other Related Program Elements:

	Prior Years	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	To Complete	Total Prog
Proc Qty												
Gross Cost	47.6	50.2	24.7	39.1	17.3	68.0	36.7	18.4	18.8	19.3	0.0	340.1
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	47.6	50.2	24.7	39.1	17.3	68.0	36.7	18.4	18.8	19.3	0.0	340.1
Initial Spares												
Total Proc Cost	47.6	50.2	24.7	39.1	17.3	68.0	36.7	18.4	18.8	19.3	0.0	340.1
Flyaway U/C												
Wpn Sys Proc U/C												

DESCRIPTION: The Pentagon Renovation Project is an on-going construction project directed by Office of the Secretary of Defense and implemented by a Resident Program Manager, Corps of Engineers (COE), and a Project Manager for Information Management & Telecommunications (PM, IM&T), U.S. Army Materiel Command (USAMC). PM, IM&T is responsible for relocating existing IM&T facilities while sustaining operations and implementing a new Pentagon IM&T physical and electronic infrastructure in concert with COE construction. Relocation includes moving the National Military Command Center (NMCC)/Service Operation centers, consolidating seven Telecommunications Control facilities, collocating 11 Automated Data Processing (ADP) facilities to two facilities, and consolidating 15 command and control, tactical, and administrative telephone switches to 8. The IM&T infrastructure includes the installation of an unclassified/classified backbone and a Network and Systems Management Center. The implementation of IM&T requirements is integral to each phase of the Pentagon Renovation construction program due to the synchronization of both programs. The Pentagon Renovation IM&T Project will provide modern integrated information and telecommunication capabilities to all levels of command in the Pentagon including OSD, the Joint Staff, the Army, Navy, Marine Corp, Air Force and Defense Agencies.

DESCRIPTION: This line includes funding for the Pentagon Telecommunications Center (PTC) and the Pentagon Renovation Information Management and Telecommunications Project. The Pentagon Telecommunications Center System (PTCS) provides, by Congressional mandate, General Service (GENSER) message origination and termination services for the headquarters of the military services, the Joint Chiefs of Staff, the Office of the Secretary of Defense, and many other DOD/non-DOD subscribers throughout the National Capital Region. In addition, the PTCS provides needed Automated Digital Network (AUTODIN) gateway access to civilian agencies, including the White House, Central Intelligence Agency and Departments of State, Energy, and Commerce. For the subscribers served, the system provides message services for command and control, crisis management, operational and administrative functions.

Exhibit P-40C Budget Item Justification Sheet

Date

February 1999

Appropriation / Budget Activity/Serial No.

OTHER PROCUREMENT / 2 / Communications and Electronics Equipment

P-1 Item Nomenclature

PENTAGON INFORMATION MGT AND TELECOM (BQ0100)

Program Elements for Code B Items

Code

Other Related Program Elements

JUSTIFICATION: PENTAGON RENOVATION IM&T: The Deputy Secretary of Defense has directed the continuation of the Pentagon Renovation Program by starting Wedge construction in FY98. A portion of the FY00 program will complete the telecommunications backbone infrastructure installation for Wedge 1 and begin procurement for Wedge 2. The largest portion of the FY01 program will be the purchase and installation of telecommunications infrastructure equipment in the Wedge 2 above ground area of the Pentagon as the Corps of Engineer's construction progresses through that area. Also planned for FY00 and 01 is the continuance of backbone infrastructure equipment purchases, such as data switches, routers, media and cable, and installation as Basement areas are renovated by the Corps of Engineers. FY00 and FY01 funds will continue procurement of hardware, such as servers and workstations, and management software to build out the Network and Systems Management Center, which manages the Unclassified and Classified Backbones for the Pentagon. Portions of the FY00 and 01 program will purchase equipment and cutover circuits in the Consolidated Technical Control Facility in the renovated area of the basement. Also in FY00 and FY01 the IM&T office will continue cutover of circuits for renovated area tenants to the Black and Red Command and Control Switches and the Optical Remote Module Administrative Switch.

JUSTIFICATION: PENTAGON TELECOMMUNICATIONS CENTER: FY00-FY01 funds procure Defense Message System (DMS) equipment platforms and electronic message delivery systems. Equipment platforms include: User Agents (UAS); Subordinate Message Transfer Agents (Smuts); Hardware (H/W) and Software (S/W); Certification Authority Work Stations (CAWs) H/W and S/W); Profile User Agents (PUAs); Bridge Head Servers; Multi-Functional Interpreters (MFIs) H/W and S/W); PCMCIA Card Readers; and FORTEZZA Cards. The objective is to provide secure and reliable message delivery to the customers' desktop. The rate at which DMS support technology evolves and DMS migration and deployment strategy is adopted, will dictate the types and quantities of electronic message delivery systems procured. DMS will be mandatory once the system is fully implemented. DMS will be the only system available for Army customers who require messaging services, and it is currently being developed as a building-wide network in conjunction with the Pentagon Renovation Project. Programmed funding will equip a user community, which includes the highest levels of the Army staff and key decision making personnel, with the tolls necessary to use DMS. Additionally, due to the ongoing Pentagon Renovation Project, the PTCS will be required to provide communication to those customers moving outside Pentagon during renovation.

Exhibit P-5, Weapon OPA Cost Analysis		Appropriation/ Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment			P-1 Line Item Nomenclature: PENTAGON INFORMATION MGT AND TELECOM (BQ0100)			Weapon System Type:			Date: February 1999			
OPA Cost Elements		ID	FY 98			FY 99			FY 00			FY01		
		CD	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
			\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000
PENTAGON RENOVATION IM&T														
Unclass/Class Backbone, Basement			11237	*VAR	VAR	5400	*VAR	VAR	7887	*VAR	VAR	15000	*VAR	VAR
Command/Ops Centers Equip/Install			4272	*VAR	VAR	1257	*VAR	VAR	1200	*VAR	VAR	1200	*VAR	VAR
Network & Sys Mgmt Ctr HW/SW, Install			4193	*VAR	VAR	2500	*VAR	VAR	400	*VAR	VAR	400	*VAR	VAR
Upgrade/Install/Cutover Primary Red Switch						300	*VAR	VAR	150	*VAR	VAR	500	*VAR	VAR
Consolidated Tech Cntrl Equip/Reterm			1953	*VAR	VAR	6100	*VAR	VAR	2100	*VAR	VAR	1500	*VAR	VAR
Digital Conferencing Switching System						750	*VAR	VAR	150	*VAR	VAR			
Optical Remote Module/Equip/Install			465			1000	*VAR	VAR	450	*VAR	VAR	2500	*VAR	VAR
Primary Black Cmd/Cntrl Switch Equip/Cutover						300	*VAR	VAR	100	*VAR	VAR	150	*VAR	VAR
Unclass/Class Backbone, Wedge 1			1800	*VAR	VAR	18732	*VAR	VAR	1299	*VAR	VAR			
Support Equip/Components			250	*VAR	VAR	250	*VAR	VAR	250	*VAR	VAR	250	*VAR	VAR
Site Preparation IM&T Facilities						500	*VAR	VAR	250	*VAR	VAR	500	*VAR	VAR
Unclass/Class Bkbone, Wedge 2									1000	*VAR	VAR	43884	*VAR	VAR
PTC														
Electronic Message Delivery Systems			540	*VAR	VAR	1999	*VAR	VAR	2020	*VAR	VAR	2118	*VAR	VAR
TOTAL			24710			39088			17256			68002		

Exhibit P-5a, Budget Procurement History and Planning

Date:
February 1999

Appropriation / Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment		Weapon System Type:			P-1 Line Item Nomenclature: PENTAGON INFORMATION MGT AND TELECOM (BQ0100)					
WBS Cost Elements: Fiscal Years	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY Each	Unit Cost \$000	Specs Avail Now?	Date Revsn Avail	RFP Issue Date
Unclass/Class Backbone, Basement FY98	Bell Atlantic FEDSIM	C/FP MIPR	DSS-W FEDSIM	Nov-97 Nov-96	Dec-97 Jan-97	VAR VAR	VAR VAR	Yes Yes		
FY99	Bell Atlantic	C/FP	DSS-W	Nov-98	Dec-98	VAR	VAR	Yes		
FY00	Bell Atlantic	C/FP	DSS-W	Oct-99	Nov-99	VAR	VAR	Yes		
FY01	Bell Atlantic	C/FP	DSS-W	Oct-00	Nov-00	VAR	VAR	Yes		
Command/Ops Centers Equip/Install FY98	SRA Horizon Technology	C/FP MIPR	Hanscom AFB Hanscom AFB	Nov-97 Dec-96	Jan-98 Mar-97	VAR VAR	VAR VAR	Yes Yes		
FY99	SRA	C/FP	Gunter AFB	Jan-99	Feb-99	VAR	VAR	Yes		
FY00	SRA	C/FP	Gunter AFB	Jan-00	Feb-00	VAR	VAR	Yes		
FY01	SRA	C/FP	Gunter AFB	Jan-01	Feb-01	VAR	VAR	Yes		
Network & Sys Mgmt Ctr HW/SW, Install FY98	GMSI FEDSIM CPI	IDIQ MIPR IDIQ	DISA FEDSIM DISA	Aug-98 Mar-98 Mar-98	Aug-98 Apr-98 Apr-98	VAR VAR VAR	VAR VAR VAR	Yes Yes Yes		
FY99	FEDSIM	MIPR	FEDSIM	Jan-98	Mar-99	VAR	VAR	Yes		
FY 99	GMSI	IDIQ	DISA	Oct-98	Nov-98	VAR	VAR	Yes		
FY00	FEDSIM	MIPR	FEDSIM	Nov-98	Jan-99	VAR	VAR	Yes		
FY01	FEDSIM	MIPR	FEDSIM	Nov-99	Dec-99	VAR	VAR	Yes		
FY01	FEDSIM	MIPR	FEDSIM	Nov-00	Dec-00	VAR	VAR	Yes		
Consolidated Tech Cntrl Equip/Re term FY98	NET SAIC	C/FP Rqmts	DISA Ft. Huachuca, AZ	Jul-98 Apr-98	Aug-98 Jun-98	VAR VAR	VAR VAR	Yes Yes		
FY99	NET	C/FP	DISA	Nov-98	Jan-99	VAR	VAR	Yes		
	DITCO	MIPR	DISA	Oct-98	Nov-98	VAR	VAR	Yes		

REMARKS:

DISA = Defense Information Systems Agency	GMSI = Global Mgmt Systems Inc.
DSSW = Defense Supply Service-Washington	IMCEN = Information Mgmt Support Center-Army
SM-ALC = Sacramento Air Logistics Center, Sacramento, CA	SAM = Single Agency Manager
NET = Network Equipment Technologies, Rockville, MD	DITCO = Defense Info Technology Contracting Office
FEDSIM = Federal System Integration Mgmt Center	CSC = Computer Sciences Corporation
SAIC = Science Applications International Corp.	
SRA = Systems Research Applications	

Exhibit P-5a, Budget Procurement History and Planning

Date:
February 1999

Appropriation / Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment		Weapon System Type:			P-1 Line Item Nomenclature: PENTAGON INFORMATION MGT AND TELECOM (BQ0100)					
WBS Cost Elements: Fiscal Years	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY Each	Unit Cost \$000	Specs Avail Now?	Date Revsn Avail	RFP Issue Date
FY00	SAIC	Rqmts	Ft. Huachuca, AZ	Jan-99	Mar-99	VAR	VAR	Yes		
	Telenex Corp	IDIQ	Ft. Monmouth, NJ	Nov-98	Jan-99	VAR	VAR	Yes		
	NET	C/FP	DISA	Oct-99	Nov-99	VAR	VAR	Yes		
FY01	SAIC	Rqmts	Ft. Huachuca, AZ	Oct-99	Nov-99	VAR	VAR	Yes		
	NET	C/FP	DISA	Oct-00	Nov-00	VAR	VAR	Yes		
	SAIC	Rqmts	Ft. Huachuca, AZ	Oct-00	Nov-00	VAR	VAR	Yes		
Optical Remote Module/Equip/Install										
FY 98	CSC	IDIQ	Ft. Monmouth, NJ	Jan-98	Feb-98	VAR	VAR	Yes		
FY 99	Bell Atlantic	C/FP	DSS-W	Jan-99	Mar-99	VAR	VAR	Yes		
FY00	CSC	IDIQ	Ft. Monmouth, NJ	Jan-99	Feb-99	VAR	VAR	Yes		
	Bell Atlantic	C/FP	DSS-W	Oct-99	Nov-99	VAR	VAR	Yes		
FY01	CSC	IDIQ	Ft. Monmouth, NJ	Jan-00	Feb-00	VAR	VAR	Yes		
	Bell Atlantic	C/FP	DSS-W	Oct-00	Dec-00	VAR	VAR	Yes		
	CSC	IDIQ	Ft. Monmouth, NJ	Jan-01	Feb-01	VAR	VAR	Yes		
Unclass/Class Backbone, Wedge 1										
FY98	GTE	C/FP/OP	DSS-W	Aug-98	Sep-98	VAR	VAR	Yes		
FY99	GTE	C/FP/OP	DSS-W	Oct-98	Nov-98	VAR	VAR	Yes		
FY00	GTE	C/FP/OP	DSS-W	Oct-99	Nov-99	VAR	VAR	Yes		
Support Equip/Components										
FY98	SAIC	C/FP	CECOM	Nov-97	Dec-97	VAR	VAR	Yes		
FY99	SAIC	C/FP	CECOM	Nov-98	Dec-98	VAR	VAR	Yes		
FY00	SAIC	C/FP	CECOM	Nov-99	Dec-99	VAR	VAR	Yes		
FY01	SAIC	C/FP	CECOM	Nov-00	Dec-00	VAR	VAR	Yes		

REMARKS:

DISA = Defense Information Systems Agency	GMSI = Global Mgmt Systems Inc.
DSSW = Defense Supply Service-Washington	IMCEN = Information Mgmt Support Center-Army
SM-ALC = Sacramento Air Logistics Center, Sacramento, CA	SAM = Single Agency Manager
NET = Network Equipment Technologies, Rockville, MD	DITCO = Defense Info Technology Contracting Office
FEDSIM = Federal System Integration Mgmt Center	CSC = Computer Sciences Corporation
SAIC = Science Applications International Corp.	
SRA = Systems Research Applications	

Exhibit P-5a, Budget Procurement History and Planning

Date:
February 1999

Appropriation / Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment		Weapon System Type:			P-1 Line Item Nomenclature: PENTAGON INFORMATION MGT AND TELECOM (BQ0100)					
WBS Cost Elements: Fiscal Years	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY Each	Unit Cost \$000	Specs Avail Now?	Date Revsn Avail	RFP Issue Date
Upgrade/Install Primary Red Switch										
FY99	Raytheon	C/FP	SM-ALC	Oct-98	Nov-98	VAR	VAR	Yes		
FY00	Raytheon	C/FP	SM-ALC	Oct-99	Nov-99	VAR	VAR	Yes		
FY01	Raytheon	C/FP	SM-ALC	Oct-00	Nov-00	VAR	VAR	Yes		
Digital Conferencing Switching System										
FY99	Bell Atlantic	C/FP	DSS-W	Nov-98	Dec-98	VAR	VAR	Yes		
FY00	Bell Atlantic	C/FP	DSS-W	Nov-99	Dec-99	VAR	VAR	Yes		
Primary Black Cmd/Cntrl Switching Equip										
FY99	Raytheon	C/FP	SM-ALC	Oct-98	Nov-98	VAR	VAR	Yes		
FY00	Raytheon	C/FP	SM-ALC	Oct-99	Nov-99	VAR	VAR	Yes		
FY01	Raytheon	C/FP	SM-ALC	Oct-00	Nov-00	VAR	VAR	Yes		
Site Preparation IM&T Facilities										
FY99	TBD 8(a)	IDIQ	DSS-W	Oct-98	Nov-98	VAR	VAR	Yes		
FY00	TBD 8(a)	IDIQ	DSS-W	Oct-99	Nov-99	VAR	VAR	Yes		
FY01	TBD 8(a)	IDIQ	DSS-W	Oct-00	Nov-00	VAR	VAR	Yes		
Unclass/Class Bkbone, Wedge 2										
FY00	GTE	C/FP/OP	DSS-W	Oct-99	Nov-99	VAR	VAR	Yes		
FY01	GTE	C/FP/OP	DSS-W	Oct-00	Nov-00	VAR	VAR	Yes		
Electronic Message Delivery Systems										
FY98	Air Force	MIPR	SAM	Nov-97	Jan-98	VAR	VAR	Yes		
FY99	Air Force	MIPR	SAM	Dec-98	Feb-99	VAR	VAR	Yes		
FY00	Air Force	MIPR	SAM	Dec-99	Feb-00	VAR	VAR	Yes		
FY01	Air Force	MIPR	SAM	Dec-00	Feb-01	VAR	VAR	Yes		

REMARKS:

DISA = Defense Information Systems Agency	GMSI = Global Mgmt Systems Inc.
DSSW = Defense Supply Service-Washington	IMCEN = Information Mgmt Support Center-Army
SM-ALC = Sacramento Air Logistics Center, Sacramento, CA	SAM = Single Agency Manager
NET = Network Equipment Technologies, Rockville, MD	DITCO = Defense Info Technology Contracting Office
FEDSIM = Federal System Integration Mgmt Center	CSC = Computer Sciences Corporation
SAIC = Science Applications International Corp.	
SRA = Systems Research Applications	

Exhibit P-40, Budget Item Justification Sheet

Date:

February 1999

Appropriation / Budget Activity/Serial No:

OTHER PROCUREMENT / 2 / Communications and Electronics Equipment

P-1 Item Nomenclature:

FOREIGN COUNTERINTELLIGENCE PROG (FCI) (BK5282)

Program Elements for Code B Items:

Code:

Other Related Program Elements:

	Prior Years	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	To Complete	Total Prog
Proc Qty												
Gross Cost	11099.0	0.5	3.8	0.9	1.8	0.9	0.9	1.6	1.7	1.7	0.0	11112.8
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	11099.0	0.5	3.8	0.9	1.8	0.9	0.9	1.6	1.7	1.7	0.0	11112.8
Initial Spares												
Total Proc Cost	11099.0	0.5	3.8	0.9	1.8	0.9	0.9	1.6	1.7	1.7	0.0	11112.8
Flyaway U/C												
Wpn Sys Proc U/C												

CLASSIFIED PROGRAM. INFORMATION WILL BE PROVIDED UPON REQUEST.

Exhibit P-40, Budget Item Justification Sheet

Date:

February 1999

Appropriation / Budget Activity/Serial No:

OTHER PROCUREMENT / 2 / Communications and Electronics Equipment

P-1 Item Nomenclature:

GENERAL DEFENSE INTELL PROG (GDIP) (BD3900)

Program Elements for Code B Items:

Code:

Other Related Program Elements:

	Prior Years	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	To Complete	Total Prog
Proc Qty												
Gross Cost	324124.0	27.5	20.4	21.6	18.3	21.7	19.0	21.0	22.7	21.8	0.0	513982.0
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	324124.0	27.5	20.4	21.6	18.3	21.7	19.0	21.0	22.7	21.8	0.0	513982.0
Initial Spares												
Total Proc Cost	324124.0	23.5	20.4	21.6	18.3	21.7	19.0	21.0	22.7	21.8	0.0	513982.0
Flyaway U/C												
Wpn Sys Proc U/C												

CLASSIFIED PROGRAM. INFORMATION WILL BE PROVIDED UPON REQUEST.

Exhibit P-40, Budget Item Justification Sheet

Date: February 1999

Appropriation / Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment
 P-1 Item Nomenclature: ASAS - MODULES (TIARA) BLOCK II (KA4400)

Program Elements for Code B Items: Code: A Other Related Program Elements:

	Prior Years	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	To Complete	Total Prog
Proc Qty												
Gross Cost	439.0	13.8	22.6	30.8	56.5	70.6	51.0	66.4	68.2	53.1	222.0	1094.0
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	439.0	13.8	22.6	30.8	56.5	70.6	51.0	66.4	68.2	53.1	222.0	1094.0
Initial Spares	19.2	0.6	1.0		0.7	0.8	0.8	0.8	1.1			24.9
Total Proc Cost	458.2	14.4	23.6	30.8	57.2	71.4	51.8	67.2	69.3	53.1	222.0	1118.9
Flyaway U/C												
Wpn Sys Proc U/C												

(U) DESCRIPTION: The All Source Analysis System (ASAS) provides US Army commanders at echelons above corps through battalion a standard all source intelligence processing/reporting system and provides the means for gaining a timely and comprehensive understanding of Opposing Force (OPFOR) deployments, capabilities, and potential courses of action. The system interfaces with selected national, joint, and theater Intelligence assets, adjacent/higher/lower military intelligence processors and sensors, Army Battle Command System (ABCS), and organic deployed Intelligence/Electronic Warfare (IEW) teams and assets. The ASAS also is a user of terrain and weather data. The ASAS system uses standard joint and Army protocols and message formats to interface with forward deployed sensor/teams, intelligence processors and joint/national/Army C3I systems.

In March 1994, the Vice Chief of Staff, Army directed that an accelerated fielding of the ASAS capability across the force (including all Army Military Intelligence units and National Guard Enhanced Readiness Brigades) be accomplished by FY99. This accelerated fielding, called ASAS-Extended, is being accomplished by issuing ASAS software operating on Non-Developmental Item (NDI) commercial off-the-shelf (COTS) Common Hardware/ Software (CHS-2) to provide an ASAS capability to units not receiving the 12 previously procured ASAS Block I. ASAS-Extended is based on a modular approach which allows for incremental enhancements of ASAS capabilities using the fielded ASAS baseline and by leveraging the traditional acquisition successes of ASAS Block I.

(U) JUSTIFICATION: FY00 funding supports the initial procurement and fielding of the ASAS Block II Remote Workstation to six divisions and two Corps. FY01 funding will continue the Remote Workstation procurement and fielding.

IDENTIFICATION CODE: A

Exhibit P-5, Weapon OPA Cost Analysis		Appropriation/ Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment			P-1 Line Item Nomenclature: ASAS - MODULES (TIARA) BLOCK II (K28801)			Weapon System Type:			Date: February 1999			
OPA Cost Elements		ID	FY 98			FY 99			FY 00			FY 01		
		CD	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
			\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000
ASAS-Extended Systems and Modules		A	1284	6	214	856	4	214						
ASAS Hardware Modules		A	12623	*	VAR	16745	*	VAR	35254	*	VAR	49197	*	VAR
Project Management Administration			1250			1288			1400			1479		
Engineering Support			1700			1733			2140			2250		
Fielding			2478			6800			11000			10780		
Interim Contractor Support			3262			3360			6720			6922		
TOTAL			22597			30782			56514			70628		
* Cost and composition of ASAS unit sets vary because of unit mission, echelon assigned and hardware module replaced.														

Exhibit P-5a, Budget Procurement History and Planning

Date: February 1999

Appropriation / Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment		Weapon System Type:			P-1 Line Item Nomenclature: ASAS - MODULES (TIARA) BLOCK II (K28801)						
WBS Cost Elements: Fiscal Years	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY Each	Unit Cost \$000	Specs Avail Now?	Date Revsn Avail	RFP Issue Date	
ASAS-Extended Systems (Workstations)											
FY 98	GTE Taunton, MA	C/Option	CECOM	Nov-97	Jan-98	12	60	N/A	N/A	N/A	
FY 99	GTE Taunton, MA	C/Option	CECOM	Nov-98	Jun-99	8	60	N/A	N/A	N/A	
ASAS-Extended Systems (Comms Modules)											
FY 98	CMI Woodland Hills, CA	CP/AF	ARL	Nov-97	Jun-98	6	94	N/A	N/A	N/A	
FY 99	CMI Woodland Hills, CA	CP/AF	ARL	Nov-98	Jun-99	4	94	N/A	N/A	N/A	
ASAS Hardware Modules											
FY 98	EWA, Fairmont, WV	FFP	CECOM	Nov-97	May-98	*	VAR	Yes	N/A	N/A	
	GTE Taunton, MA	C/Option	CECOM	Nov-97	May-98	*	VAR	N/A	N/A	N/A	
FY 99	GTE Taunton, MA	C/Option	CECOM	Nov-98	Jun-99	*	VAR	N/A	N/A	N/A	
	EWA, Fairmont, WV	FFP	CECOM	Nov-98	Jun-99	*	VAR	Yes	N/A	N/A	
FY 00	GTE Taunton, MA	C/Option	CECOM	Nov-99	Mar-00	*	VAR	N/A	N/A	N/A	
FY 01	GTE Taunton, MA	C/Option	CECOM	Nov-00	Mar-01	*	VAR	N/A	N/A	N/A	

REMARKS: All equipment is NDI/COTS purchased through PM CHS or other Army Activities.
* Equipment quantity and cost covers several workstation modules, components and communications interfaces.

Exhibit P-40, Budget Item Justification Sheet

Date: February 1999

Appropriation / Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment
 P-1 Item Nomenclature: JTT/CIBS-M (TIARA) (V29600)

Program Elements for Code B Items: Code: Other Related Program Elements:

	Prior Years	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	To Complete	Total Prog
Proc Qty	100		54	50	165	183	42	40	120	82		N/A
Gross Cost	0.0	20.8	13.8	10.3	24.3	27.0	12.1	12.6	15.1	13.2	0.0	149.2
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	0.0	20.8	13.8	10.3	24.3	27.0	12.1	12.6	15.1	13.2	0.0	149.2
Initial Spares		2.7	0.7	4.5								7.9
Total Proc Cost	0.0	23.5	14.5	14.8	24.3	27.0	12.1	12.6	15.1	13.2	0.0	157.1
Flyaway U/C			0.2	0.2	0.2	0.2	0.2	0.2	0.0	0.0		
Wpn Sys Proc U/C			.3	.3	.2	.2	.3	.3	0.0	0.0		

The Joint Tactical Terminal (JTT) are a family of special application UHF Line of Sight (LOS)/Satellite Communications (SATCOM) Secure Intelligence dissemination reporting systems for deployment with tactical units. The system uses airborne and satellite relay platforms to provide robust, reliable jam resistant targeting and intelligence data and voice connectivity throughout the battlefield. Data from various sensors and HUMINT sources are transmitted over the Integrated Broadcast Service (IBS). Specific IBS transmission networks include the Tactical/Reconnaissance Exchange System (TRIXS) network, the Tactical Information Broadcast Service (TIBS), the Tactical Receive equipment and related Applications Data Dissemination System (TDDS) and Tactical Data Information eXchange System (TADIXS) networks. The IBS is the worldwide DOD standard Network for transmitting tactical and strategic intelligence and battle management data. The JTT is the next generation DOD standard system which provides additional channels. The JTT terminals deliver critical, time sensitive battlefield intelligence and targeting information at collateral and system high security levels in near real time (NRT) to the worldwide tactical commanders and intelligence nodes at all echelons. The terminals provide direct, secure and dedicated connectivity/interoperability for rapid targeting, threat avoidance, battle management, mission planning and sensor cueing. The equipment can be mounted in fixed and rotary wing aircraft as well as fixed or mobile ground platforms. The JTT facilitates reaction inside the enemy decision cycle and is necessary to winning the information war on the battlefield. The JTT Briefcase(Reduced Size)(RS) effort will be awarded in FY 99 to satisfy the US Army Special Operations Command JTT requirements for a Manpack variant that will weigh 35 lbs or less. This is in compliance with the JTT ORD objective requirement. JUSTIFICATION: FY00/01 quantities include receive only and full duplex (receive/transmit) variants based on user identified requirements. JTT is a part of the Army's high priority initiative to digitize the battlefield across four Battlefield Operating Systems (Intel, Aviation, Fire Support and Air Defense). The increase to JTT procurement quantities will close the gap for demand by host system platforms in FY01.

Exhibit P-5, Weapon OPA Cost Analysis		Appropriation/ Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment			P-1 Line Item Nomenclature: JTT/CIBS-M (TIARA) (V29600)			Weapon System Type:			Date: February 1999			
OPA Cost Elements		ID	FY 98			FY 99			FY 00			FY 01		
		CD	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
			\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000
HARDWARE														
JTT (T/R) Transmits and Receives	B		8624	44	196	5720	40	143	16016	112	143	14586	102	143
JTT (R ONLY) Receives Only			1570	10	157	1130	10	113	4294	38	113	5989	53	113
JTT (OTHER SERVICE RQMTS)				41			59			50			45	
JTT (RS) Receive only									1500	15	100	2800	28	100
SUPPORT														
ECOs			1627			1880			659			1504		
DATA			194			200			200			245		
SYSTEM TEST & EVAL			212			72			245			255		
ENGINEERING SUPPORT														
IN-HOUSE			419			312			236			255		
CONTRACTOR			408			390			345			438		
Subtotal - ENGINEERING SUPPORT			827			702			581			693		
FIELDING*														
PROGRAM MGMT (ADMIN)			162			8			142			224		
			592			600			625			650		
TOTAL			13808			10312			24262			26946		
Other services quantities are identified in order to load P21 production delivery data														
* Fielding in FY 98/99 relate to CTT only.														

Exhibit P-5a, Budget Procurement History and Planning

Date:
February 1999

Appropriation / Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment				Weapon System Type:		P-1 Line Item Nomenclature: JTT/CIBS-M (TIARA) (V29600)				
WBS Cost Elements: Fiscal Years	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY Each	Unit Cost \$000	Specs Avail Now?	Date Revsn Avail	RFP Issue Date
JTT (T/R)										
FY98	RAYTHEON SYSTEMS ST PETE, FL	C/FFP	CECOM	Apr-98	Mar-00	44	196	YES		
FY99	RAYTHEON SYSTEMS	C/FFP/Opt	CECOM	Jun-99	Nov-00	40	143	YES		
FY00	RAYTHEON SYSTEMS	C/FFP/Opt	CECOM	Jun-00	Feb 01	112	143	YES		
FY01	RAYTHEON SYSTEMS	C/FFP/Opt	CECOM	Jan 01	Jan 02	102	143	YES		
JTT R ONLY										
FY98	RAYTHEON SYSTEMS ST PETE, FL	C/FFP	CECOM	Apr-98	Mar-00	10	157	YES		
FY99	RAYTHEON SYSTEMS	C/FFP/Opt	CECOM	Jun-99	Nov-00	10	113	YES		
FY00	RAYTHEON SYSTEMS	C/FFP/Opt	CECOM	Jun-00	Feb 01	38	113	YES		
FY01	RAYTHEON SYSTEMS	C/FFP/Opt	CECOM	Jan 01	Jan 02	53	113	YES		
JTT (RS)										
FY 00	RAYTHEON SYSTEMS	C/FFP	CECOM	Jun-00	Apr 01	15	100	YES		
FY 01	RAYTHEON SYSTEMS	C/FFP/Opy	CECOM	JAN 01	JAN 02	28	100	YES		
OTHER SERVICES										
FY98	RAYTHEON SYSTEMS	C/FFP	CECOM	Apr-98	Apr-00	41	196	YES		
FY99	RAYTHEON SYSTEMS	C/FFP/Opt	CECOM	Jun-99	Set 01	59	143	YES		
FY00	RAYTHEON SYSTEMS	C/FFP/Opt	CECOM	JUN 00	Apr 01	50	143	YES		
FY01	RAYTHEON SYSTEMS	C/FFP/Opt	CECOM	JAN 01	Jan 02	45	143	YES		

REMARKS: "

FY 00 / 01 BUDGET PRODUCTION SCHEDULE							P-1 Item Nomenclature: JTT/CIBS-M (TIARA) (V29600)													Date: February 1999	L A T E R																												
COST ELEMENTS	M F R	FY	S E R V	PROC QTY Each	ACCEP. PRIOR TO 1 OCT	BAL DUE AS OF 1 OCT	Fiscal Year 98												Fiscal Year 99																														
							97			Calendar Year 98						Calendar Year 99																																	
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V		D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P																		
																													5	10	15																		
JTT (T/R)		FY96	A	89	0	89																																											
		FY98	A	44	0	44									A																																		
		FY99	A	40	0	40																																	A										
		FY00	A	112	0	112																																											
		FY01	A	102	0	102																																											
JTT (R ONLY)		FY96	A	11	0	11																																											
		FY98	A	10	0	10									A																																		
		FY99	A	10	0	10																																				A							
		FY00	A	38	0	38																																											
		FY01	A	53	0	53																																											
JTT (OTHER SERVICE RQMTS)		FY97	O/S	32	0	32																																											
		FY98	O/S	41	0	41									A																																		
		FY99	O/S	59	0	59																																							A				
		FY00	O/S	50	0	50																																											
		FY01	O/S	45	0	45																																											
JTT (RS)		FY99	A	10	0	10																																								A			
		FY00	A	15	0	15																																											
		FY01	A	28	0	28																																											

M F R	NAME / LOCATION	PRODUCTION RATES			REACHED D +	MFR Number	ADMIN LEAD TIME		MFR After 1 Oct.	TOTAL After 1 Oct.	REMARKS
		MIN.	1-8-5	MAX.			Prior 1 Oct.	After 1 Oct.			
						INITIAL	96		12	24	36
	RAYTHEON SYSTEMS, ST PETE, FL	2	20	30		REORDER	98		6	22	28
						INITIAL					
						REORDER	99		5	16	21
						INITIAL					
						REORDER	00		5	12	17
						INITIAL					
						REORDER	01		3	12	15
						INITIAL					
						REORDER					

FY 00 / 01 BUDGET PRODUCTION SCHEDULE

P-1 Item Nomenclature: JTT/CIBS-M (TIARA) (V29600)

Date: February 1999

COST ELEMENTS	MFR	FY	SERV	PROC QTY Each	ACCEP. PRIOR TO 1 OCT	BAL DUE AS OF 1 OCT	Fiscal Year 02												Fiscal Year 03												LATER												
							1			Calendar Year 02									Calendar Year 03																								
							OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP													
JTT (T/R)		FY98	A	44	44																																						
		FY99	A	40	40																																						
		FY00	A	112	81	31	11	14	6																																		
		FY01	A	102	0	102				10	10	10	10	10	10	10	10	10	12																								
JTT (R ONLY)		FY98	A	10	10																																						
		FY99	A	10	10																																						
		FY00	A	38	29	9	3	3	3																																		
		FY01	A	53	0	53				5	5	5	5	5	5	5	5	5	5	8																							
JTT (OTHER SERVICE RQMTS)		FY98	O/S	41	41																																						
		FY99	O/S	59	59																																						
		FY00	O/S	50	41	9	6	3																																			
		FY01	O/S	45	0	45				5	5	5	5	5	5	5	5	5	5																								
JTT (RS)		FY00	A	15	15																																						
		FY01	A	28	0	28				2	2	3	3	3	3	3	3	3	3																								

MFR	NAME / LOCATION	PRODUCTION RATES			REACHED D +	MFR Number	ADMIN LEAD TIME		MFR After 1 Oct.	TOTAL After 1 Oct.	REMARKS
		MIN.	1-8-5	MAX.			Prior 1 Oct.	After 1 Oct.			
	RAYTHEON SYSTEMS, ST PETE, FL	2	20	30		INITIAL	96	12	24	36	
						REORDER	98	6	22	28	
						INITIAL					
						REORDER	99	5	16	21	
						INITIAL					
						REORDER	00	5	12	17	
						INITIAL					
						REORDER	01	3	12	15	
						INITIAL					
						REORDER					

Exhibit P-40, Budget Item Justification Sheet

Date: February 1999

Appropriation / Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment
 P-1 Item Nomenclature: IEW - GND BASE COMMON SENSORS (TIARA) (BZ7326)

Program Elements for Code B Items: Code: Other Related Program Elements:

	Prior Years	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	To Complete	Total Prog
Proc Qty												
Gross Cost	103.9	35.6	0.0	12.0	0.0	0.0	0.0	34.6	134.9	101.8	Cont	Cont
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	103.9	35.6	0.0	12.0	0.0	0.0	0.0	34.6	134.9	101.8	Cont	Cont
Initial Spares	13.0	7.2		5.7							Cont	Cont
Total Proc Cost	116.9	42.8	0.0	17.7	0.0	0.0	0.0	34.6	134.9	101.8	Cont	Cont
Flyaway U/C												
Wpn Sys Proc U/C												

DESCRIPTION: Ground Base Common Sensor (GBCS) provides the Commanders of Army Divisions, Armored Cavalry Regiments and Separate Brigades with an organic capability to listen to, precisely locate for hard kill or order-of-battle resolution, or render threat command and control and fire control communications nets ineffective. GBCS provides capability to identify and precisely locate threat counter/mortar, counter/battery and ground surveillance radar emissions. The system is designed to ensure transportability, prime mover maintainability, and over terrain mobility equal to that of the supported divisions, regiments and brigades. GBCS-Light is in a High Mobility Multipurpose Wheeled Vehicle (HMMWV) for deployment with first to fight, Light, Airborne and Air Assault elements in support of contingency operations.

GBCS exploits or eliminates, at the Commander's discretion, the latest most modern types of hostile modulations including modern radar and Low Probability of Intercept (LPI) communications, and transmissions techniques at the key time and place on the battlefield. When deployed in conjunction with Advanced QUICKFIX, it's heliborne counterpart, GBCS provides for targeting accuracy sufficient for first round hit by organic artillery. GBCS mission equipment is also being configured in a Light Armored Vehicle (LAV) for use by the United States Marine Corps.

The U.S. Army decided the objective GBCS-L systems were not ready to enter IOT&E. The Army has decided to restructure the former IEWCSC program, essentially making a "right turn" from IEWCSC into a new program to be called Prophet. Prophet will consist of air and ground platforms and a ground control element. FY99 will be the transition year leading to a Special In Process Review (SIPR) in 3QFY99 for continuation of the EMD phase. Funding FY03 and beyond supports the restructured Prophet program.

JUSTIFICATION: There are no funds in FY00/FY01.

Exhibit P-5, Weapon OPA Cost Analysis		Appropriation/ Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment			P-1 Line Item Nomenclature: IEW - GND BASE COMMON SENSORS (TIARA) (BZ7326)			Weapon System Type:			Date: February 1999			
OPA Cost Elements		ID	FY 98			FY 99			FY 00			FY 01		
		CD	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
			\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000
SUPPORT:														
ECO'S														
SW CHANGES						3750								
HW CHANGES						5839								
DATA						350								
SYS TEST & EVAL						600								
ENGINEERING SPT:														
IN-HOUSE														
CONTRACT						1500								
FIELDING														
INTERIM CONTRACT SUPPORT														
TOTAL						12039								

Exhibit P-5a, Budget Procurement History and Planning

Date: February 1999

Appropriation / Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment
 Weapon System Type:
 P-1 Line Item Nomenclature: IEW - GND BASE COMMON SENSORS (TIARA) (BZ7326)

WBS Cost Elements: Fiscal Years	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY Each	Unit Cost \$000	Specs Avail Now?	Date Revsn Avail	RFP Issue Date
GBCS-L HARDWARE										
FY96	Lockheed/Martin, Owego, NY	C/FP	CECOM	Jan-96	Jan-99	4	9561	Yes		
FY97	Lockheed/Martin, Owego, NY	Option	CECOM	Nov-96	Apr-00	2	8908	Yes		

REMARKS: FY96 initiated competitive production.
 FY97 completes Limited Procurement requirements with the purchase of two systems.

FY 2000 / FY 2001 BUDGET PRODUCTION SCHEDULE

P-1 Item Nomenclature:

IEW - GND BASE COMMON SENSORS (TIARA) (BZ7326)

Date:

February 1999

COST ELEMENTS	MFR	FY	SERV	PROC QTY Each	ACCEP. TO 1 OCT	BAL DUE AS OF 1 OCT	Fiscal Year 98												Fiscal Year 99												LATER																																																																																																																																																	
							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																																																																																																																																																		
GBCS-L HARDWARE	1	97&Pr	A	6	0	6																			3	3																																																																																																																																																						
	2	97&Pr	A	6	0	6																						1													5																																																																																																																																							
<table border="1"> <thead> <tr> <th rowspan="2">MFR</th> <th rowspan="2">NAME / LOCATION</th> <th colspan="3">PRODUCTION RATES</th> <th rowspan="2">REACHED</th> <th rowspan="2">D +</th> <th rowspan="2">MFR Number</th> <th colspan="2">ADMIN LEAD TIME</th> <th rowspan="2">MFR</th> <th rowspan="2">TOTAL</th> <th rowspan="2">REMARKS</th> </tr> <tr> <th>MIN.</th> <th>1-8-5</th> <th>MAX.</th> <th>Prior 1 Oct.</th> <th>After 1 Oct.</th> <th>After 1 Oct.</th> <th>After 1 Oct.</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>ESI Inc, Richardson, TX</td> <td>1</td> <td>2</td> <td>4</td> <td>12</td> <td>1</td> <td>INITIAL</td> <td>95</td> <td>12</td> <td>3</td> <td>49</td> <td>52</td> <td rowspan="10"></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>REORDER</td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>2</td> <td>Lockheed/Martin, Owego, NY</td> <td>1</td> <td>2</td> <td>4</td> <td>12</td> <td>2</td> <td>INITIAL</td> <td>96</td> <td>12</td> <td>3</td> <td>36</td> <td>39</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>REORDER</td> <td>97</td> <td>3</td> <td>1</td> <td>40</td> <td>41</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>INITIAL</td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>REORDER</td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>INITIAL</td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>REORDER</td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>INITIAL</td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>REORDER</td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table>																										MFR	NAME / LOCATION	PRODUCTION RATES			REACHED	D +	MFR Number	ADMIN LEAD TIME		MFR	TOTAL	REMARKS	MIN.	1-8-5	MAX.	Prior 1 Oct.	After 1 Oct.	After 1 Oct.	After 1 Oct.	1	ESI Inc, Richardson, TX	1	2	4	12	1	INITIAL	95	12	3	49	52									REORDER						2	Lockheed/Martin, Owego, NY	1	2	4	12	2	INITIAL	96	12	3	36	39								REORDER	97	3	1	40	41								INITIAL													REORDER													INITIAL													REORDER													INITIAL													REORDER					
MFR	NAME / LOCATION	PRODUCTION RATES			REACHED	D +	MFR Number	ADMIN LEAD TIME		MFR	TOTAL	REMARKS																																																																																																																																																																				
		MIN.	1-8-5	MAX.				Prior 1 Oct.	After 1 Oct.				After 1 Oct.	After 1 Oct.																																																																																																																																																																		
1	ESI Inc, Richardson, TX	1	2	4	12	1	INITIAL	95	12	3	49	52																																																																																																																																																																				
							REORDER																																																																																																																																																																									
2	Lockheed/Martin, Owego, NY	1	2	4	12	2	INITIAL	96	12	3	36	39																																																																																																																																																																				
							REORDER	97	3	1	40	41																																																																																																																																																																				
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							REORDER																																																																																																																																																																									

FY 2000 / FY 2001 BUDGET PRODUCTION SCHEDULE

P-1 Item Nomenclature:

IEW - GND BASE COMMON SENSORS (TIARA) (BZ7326)

Date:

February 1999

COST ELEMENTS	MFR	FY	SERV	PROC QTY Each	ACCEP. PRIOR TO 1 OCT	BAL DUE AS OF 1 OCT	Fiscal Year 00												Fiscal Year 01												LATER
							Calendar Year 00												Calendar Year 01												
							OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	
GBCS-L HARDWARE	1	97&Pr	A	6	6																										
	2	97&Pr	A	6	1	5						1	2	2																	
							OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	
MFR	PRODUCTION RATES				REACHED D +	MFR Number	ADMIN LEAD TIME		MFR After 1 Oct.	TOTAL After 1 Oct.	REMARKS																				
NAME / LOCATION	MIN.	1-8-5	MAX.	Prior 1 Oct.			After 1 Oct.																								
1 ESI Inc, Richardson, TX	1	2	4	12	1	INITIAL	95	12	3	49	52																				
2 Lockheed/Martin, Owego, NY	1	2	4	12	2	INITIAL	96	12	3	36	39																				
						REORDER	97	3	1	40	41																				
						INITIAL																									
						REORDER																									
						INITIAL																									
						REORDER																									
						INITIAL																									
						REORDER																									

Exhibit P-40, Budget Item Justification Sheet

Date: February 1999

Appropriation / Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment
 P-1 Item Nomenclature: TACTICAL UNMANNED AERIAL VEHICLE (BA0330)

Program Elements for Code B Items: Code: Other Related Program Elements:

	Prior Years	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	To Complete	Total Prog
Proc Qty						8	8	8	8	6		38
Gross Cost	0.0	0.0	0.0	0.0	45.9	61.1	71.6	54.0	56.9	52.9	0.0	342.2
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	0.0	0.0	0.0	0.0	45.9	61.1	71.6	54.0	56.9	52.9	0.0	342.2
Initial Spares												
Total Proc Cost	0.0	0.0	0.0	0.0	45.9	61.1	71.6	54.0	56.9	52.9	0.0	342.2
Flyaway U/C						6.6	6.6	6.6	6.6	6.6		33.0
Wpn Sys Proc U/C						6.7	6.7	6.7	6.7	6.7		33.5

DESCRIPTION: The Tactical Unmanned Aerial Vehicle (TUAV) provides the Army brigade and battalion levels with dedicated Reconnaissance, Surveillance and Target Acquisition (RSTA) and Combat Assessment (CA). The TUAV air vehicle objective is to fly up to 200 kilometers and remain on station for up to four hours. The baseline payload is EO/IR. Procurement of systems including attrition air vehicles will commence in FY 2001. The TUAV system consists of multiple air vehicles, Highly Mobile Multi-Wheeled Vehicles (HMMWV) with shelters, trailers, 2 ground control stations, 2 ground data terminals and a Mobile Maintenance Facility capable of supporting up to three systems. Flyaway and Weapon System procurement unit cost is averaged across all production years and does not include attrition air vehicles. The program Acquisition Strategy for this program calls for an LRIP in FY00 to support an Initial Operational Test and Evaluation (IOT&E). Consistent with current funding policy, LRIP units for IOT&E must be funded with RDT&E dollars. Consequently, the use of FY00 procurement funds are not covered in this P-Form.

JUSTIFICATION: These FY00 funds need to be transferred to RDT&E funds under Program Element 0305204A, Project D114 to acquire TUAV LRIP systems for IOT&E. The FY01 funds will procure TUAV systems for initial fielding and the training base.

Exhibit P-5, Weapon OPA Cost Analysis		Appropriation/ Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment			P-1 Line Item Nomenclature: TACTICAL UNMANNED AERIAL VEHICLE (BA0330)			Weapon System Type:			Date: February 1999		
OPA Cost Elements	ID CD	FY 98			FY 99			FY 00			FY 01		
		TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000
TUAV Systems (4 Air Vehicle/System)	B												
Recurring Costs:													
Air Vehicle											15031	40	376
Launch and Recovery Equipment											642		
Air Vehicle Trailer											1028		
Ground Control Station											10405		
Ground Control Terminal											3986		
Remote Video Terminal											564		
Modular Maintenance Facility											434		
System Integration & Assembly											3164		
Recurring Engineering											3077		
Quality Control											3049		
Recurring System Manufacturing Subtotal:											41380	10	4138
Contractor System Engineering & Mgmt											3596		
Training Equipment & Services											1250		
System Test and Acceptance											1816		
Engineering Change Orders											344		
Recurring TUAV System Costs Total:											48386		
Government Furnished Equipment (HMMWVs, trailers, generators, radios, etc.)											3744		
Attrition Air Vehicles											2632	7	376
Initial Fielding Support											3927		
Program Management											2373		
Total System Cost											61062		
Note: The quantity in the RDAISA database must be revised to reflect the correct quantity as depicted on this P-5.													

Exhibit P-5a, Budget Procurement History and Planning

Date:
February 1999

Appropriation / Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment				Weapon System Type:			P-1 Line Item Nomenclature: TACTICAL UNMANNED AERIAL VEHICLE (BA0330)				
WBS Cost Elements: Fiscal Years	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY Each	Unit Cost \$000	Specs Avail Now?	Date Revsn Avail	RFP Issue Date	
TACTICAL UNMANNED AERIAL VEHICLE	To Be Selected	Option/FPIF	AMCOM	Apr-01	Mar-02	10	4138	Yes	NA	NA	

REMARKS: The current acquisition strategy is pending final approval at the Defense Acquisition Board review planned for March 1999.

Exhibit P-40, Budget Item Justification Sheet

Date: February 1999

Appropriation / Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment
 P-1 Item Nomenclature: JOINT STARS (ARMY) (TIARA) (BA1080)

Program Elements for Code B Items: Code: Other Related Program Elements:

	Prior Years	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	To Complete	Total Prog
Proc Qty	45	16	20	18	12	10						121
Gross Cost	266.8	84.7	89.3	86.9	82.2	57.8	13.5	4.2	14.2	26.9	203.8	930.3
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	266.8	84.7	89.3	86.9	82.2	57.8	13.5	4.2	14.2	26.9	0.0	726.5
Initial Spares	13.0	8.6	6.1	8.7	6.3	6.2	6.9	4.4				60.2
Total Proc Cost	279.8	93.3	95.4	95.6	88.5	64.0	20.4	8.6	14.2	26.9	0.0	786.7
Flyaway U/C	4.5	4.3	3.7	3.9	4.2	4.3						
Wpn Sys Proc U/C	6.2	5.9	4.0	4.3	4.8	4.9						

DESCRIPTION: The Joint Surveillance Target Attack Radar System (Joint STARS) is a surveillance battle management and targeting system. It is a Joint Army and Air Force program with the Air Force as the executive Service. The Joint STARS Radar is an airborne multimodal radar system incorporating an electronically scanned antenna and combines both Moving and Fixed Target indicator (MTI/FTI) and Synthetic Aperture Radar (SAR) functions. The radar is carried aboard a modified Joint STARS E-8 aircraft and broadcasts radar data to the Army Common Ground Station (CGS). In addition to Joint STARS data, the CGS will receive and process Unmanned Aerial Vehicle (UAV) and Commanders Tactical Terminal (CTT) data. The CGS is a tactical data processing and evaluation center that links into the Army's Battle Command System (ABCS). The CGS will assist commanders in determining battle management and targeting. The CGS integrates signal, imagery and other intelligence processing into a single ground station, resulting in enhanced battle management capabilities. The Joint STARS will fulfill an urgent air-land battlefield deficiency by providing an Army/Air Force battlefield sensor and attack control capability designed to detect, locate, track, classify and assist in attacking both moving and stationary ground targets beyond the Forward Line of Troops (FLOT).

The Joint STARS CGS has repeatedly provided high value targeting and intelligence data to Field Commanders during contingencies (Operation Joint Endeavor), as well as during standard mission operations of fielded units. Joint STARS is a proven force multiplier, fielded to high priority units for worldwide deployment

JUSTIFICATION: The FY00-01 funds procure 22 CGS units (12 in FY00 and 10 in FY01) to be fielded across all echelons. This funding also provides for continuing implementation of the approved P3I program and incorporation of approved modifications into existing systems.

Exhibit P-5, Weapon OPA Cost Analysis		Appropriation/ Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment			P-1 Line Item Nomenclature: JOINT STARS (ARMY) (TIARA) (BA1080)			Weapon System Type:			Date: February 1999			
OPA Cost Elements		ID	FY 98			FY 99			FY 00			FY 01		
		CD	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
			\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000
HARDWARE														
COMMON GROUND STATION (CGS) LRIP			18112	4	4528	42180	12	3515						
COMMON GROUND STATION (CGS) Full Rate Production (FRP)						21090	6	3515	46980	12	3915	38250	10	3825
MGSM UPGRADE TO CGS CAPABILITY Dismounted Work Station (DWS)			25520	16	1595	2000	4	500						
SUBTOTAL			43632			65270			46980			38250		
SUPPORT														
P3I Installation						1750			6000			8550		
ECO'S			38476			14100			25237			6893		
DATA			400			208								
SYSTEM TEST AND EVAL			1089			1857								
SUBTOTAL			39965			17915			31237			15443		
ENGINEERING SUPPORT														
IN HOUSE			552			446			356			350		
PRIME CONTRACTOR			2987			430			440			500		
SUBTOTAL			3539			876			796			850		
FIELDING			1034			1673			1800			1815		
PROGRAM MANAGEMENT (ADMIN)			1106			1161			1363			1415		
TOTAL			89276			86895			82176			57773		
The quantities on the P40 track to the RDAISA Data Base. However, the corrected quantities of 20 in FY98 and 18 in FY99 had been submitted prior to this cycle.														

Exhibit P-5a, Budget Procurement History and Planning

Date:
February 1999

Appropriation / Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment		Weapon System Type:			P-1 Line Item Nomenclature: JOINT STARS (ARMY) (TIARA) (BA1080)					
WBS Cost Elements: Fiscal Years	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY Each	Unit Cost \$000	Specs Avail Now?	Date Revsn Avail	RFP Issue Date
COMMON GROUND STATION (CGS)										
FY 98	Motorola, Scottsdale, AZ	C/FFP/Opt	CECOM	May-98	Sep-99	4	4528	YES		
FY 99	Motorola, Scottsdale, AZ	C/FFP/Opt	CECOM	Dec-98	Dec-99	12	3515	YES		
FY 99	Motorola, Scottsdale, AZ	C/FFP/Opt	CECOM	Jun-99	Jun-00	6	3515	YES		
FY 00	Motorola, Scottsdale, AZ	C/FFP/Opt	CECOM	Dec-99	Dec-00	12	3915	YES		
FY 01	Motorola, Scottsdale, AZ	C/FFP/Opt	CECOM	Dec-00	Dec-01	10	3825	YES		
MGSM UPGRADE TO CGS CAPABILITY										
FY 98	Motorola, Scottsdale, AZ	C/FFP/Opt	CECOM	Dec-97	Jan-99	16	1595	YES		
DWS										
FY 99	Motorola, Scotsdale, AZ	SS/T&M	CECOM	Jun-99	Sep-99	4	500	YES		

REMARKS: .MS III DAB review is scheduled for the 3rd Qtr 99.

FY 00 / 01 BUDGET PRODUCTION SCHEDULE

P-1 Item Nomenclature: **JOINT STARS (ARMY) (TIARA) (BA1080)**

Date: **February 1999**

COST ELEMENTS	MFR	FY	SERV	PROC QTY Each	ACCEP. PRIOR TO 1 OCT	BAL DUE AS OF 1 OCT	Fiscal Year 98												Fiscal Year 99												L A T E R
							Calendar Year 98						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	
COMMON GROUND STATION (CGS)																															
	1	FY 98	A	4	0	4										A															
	1	FY 99	A	12	0	12												A									12				
	1	FY 99	A	6	0	6																A					6				
	1	FY 00	A	12	0	12																					12				
	1	FY 01	A	10	0	10																					10				
MGSM UPGRADE TO CGS CAPABILITY																															
	1	FY 98	A	16	0	16			A											2	2	2	2	2	2	2	2				
DWS	1	FY 99	A	4	4	0																			A		4				

MFR	NAME / LOCATION	PRODUCTION RATES			REACHED D +	MFR Number	ADMIN LEAD TIME		MFR After 1 Oct.	TOTAL After 1 Oct.	REMARKS	
		MIN.	1-8-5	MAX.			Prior 1 Oct.	After 1 Oct.				
1	Motorola, Scottsdale, AZ	1	2	3	9		INITIAL	8	2	16	18	
							REORDER		3	12	15	
							INITIAL					
							REORDER					
							INITIAL					
							REORDER					
							INITIAL					
							REORDER					
							INITIAL					
							REORDER					

FY 00 / 01 BUDGET PRODUCTION SCHEDULE						P-1 Item Nomenclature: JOINT STARS (ARMY) (TIARA) (BA1080)												Date: February 1999		L A T E R																
COST ELEMENTS	M F R	FY	S E R V	PROC QTY Each	ACCEP. PRIOR TO 1 OCT	BAL DUE AS OF 1 OCT	Fiscal Year 02						Fiscal Year 03																							
							Calendar Year 02						Calendar Year 03																							
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P						
COMMON GROUND STATION (CGS)																																				
	1	FY 98	A	4	4																															
	1	FY 99	A	12	12																															
	1	FY 99	A	6	6																															
	1	FY 00	A	12	10	2	1	1																												
	1	FY 01	A	10	0	10			2	2	2	2	2																							
MGSM UPGRADE TO CGS CAPABILITY																																				
	1	FY 98	A	16	16																															
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P						
M F R	PRODUCTION RATES				REACHED D +	MFR Number	ADMIN LEAD TIME		MFR After 1 Oct.	TOTAL After 1 Oct.	REMARKS																									
	NAME / LOCATION						MIN.	1-8-5				MAX.	Prior 1 Oct.	After 1 Oct.																						
1	Motorola, Scottsdale, AZ				1	2	3	9		INITIAL	8	2	16	18																						
										REORDER		3	12	15																						
										INITIAL																										
										REORDER																										
										INITIAL																										
										REORDER																										
										INITIAL																										
										REORDER																										
										INITIAL																										
										REORDER																										

Exhibit P-40, Budget Item Justification Sheet

Date:

February 1999

Appropriation / Budget Activity/Serial No:

OTHER PROCUREMENT / 2 / Communications and Electronics Equipment

P-1 Item Nomenclature:

INTEGRATED BROADCAST TERMINAL MODS (TIAR (BA1081))

Program Elements for Code B Items:

Code:

Other Related Program Elements:

	Prior Years	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	To Complete	Total Prog
Proc Qty												
Gross Cost	0.0	0.0	0.4	6.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.9
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	0.0	0.0	0.4	6.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.9
Initial Spares												
Total Proc Cost	0.0	0.0	0.4	6.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.9
Flyaway U/C												
Wpn Sys Proc U/C												

DESCRIPTION: The Integrated Broadcast Service (IBS) is the worldwide DOD standard network for transmitting tactical and strategic intelligence as well as battle management data. Starting in FY99, all DOD systems requiring access to the IBS will gain this access via a new family of common IBS modules (CIBS-M) and Joint Tactical Terminals (JTT). The initial CIBS modules will begin production in FY99 and ultimately upgrade all IBS migration tactical terminals currently in use by the services. Prior to the initiation of the CIBS-M program, the services received the IBS Broadcast via the Commander's Tactical Terminal (CTT), Multi-Missioned Advanced Tactical Terminal (MATT) and Tactical Receive Equipment (TRE). It was anticipated that the CTTs would require modifications to maintain accessibility and interoperability with the IBS Broadcasts. This was to be done via CIBS-M. Based on a detailed migration plan for the CTT Hybrid/Receive (H/R) and CTT 3, and the slip in IBS initial Operating Capability to FY02, it has been determined that it is more cost effective from a life cycle perspective to replace existing CTT Hybrid Receive (H/R) and CTT 3 with baseline JTT. FY99 Mod in Service funding will be used to support a modification to the baseline JTT. This modification, a reduced size JTT, is needed to support special operations forces requirements (i.e. man portable, briefcase) which the baseline JTT cannot satisfy due to size/weight constraints.

JUSTIFICATION: No funding required in FY 00/01.

Exhibit P-40M Budget Item Justification Sheet

Date
February 1999

Appropriation / Budget Activity/Serial No. OTHER PROCUREMENT / 2 / Communications and Electronics Equipment
P-1 Item Nomenclature INTEGRATED BROADCAST TERMINAL MODS (TIAR (BA1081))

Program Elements for Code B Items Code Other Related Program Elements

Description		Fiscal Years									
OSIP NO.	Classification	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	TC	Total
REDUCED SIZE JTT (NON-RECURRING AND RECURRING)											
1-98-XXX1	OPERATIONAL	0.4	6.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.9
Totals		0.4	6.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.9

INDIVIDUAL MODIFICATION

Date February 1999

MODIFICATION TITLE: REDUCED SIZE JTT (NON-RECURRING & RECURRING 1-98-XXX1)

MODELS OF SYSTEMS AFFECTED:

DESCRIPTION / JUSTIFICATION:

JUSTIFICATION: The JTT Joint Operational Requirements Document (JORD) defined requirements for a reduced size JTT Briefcase version to satisfy man-pack, man-portable and palletized JTT requirements. Current support for this reduced size JTT is very high from Army Special Operations Command, and U S Special Operations Command (SOCOM). The effort funded via this program will accelerate fielding of a critical capability to truly disadvantaged tactical users (i.e. airborne platforms and special operations forces). Installation costs will not be required in FY 99 as Host platforms will be responsible for costs. Host platforms are MI groups, CGS, DWS, GRCS, ETRAC, ACS, ASAS, Patriot, THAAD, SHORAD, MEADS, JLENS and MLRS.

DEVELOPMENT STATUS / MAJOR DEVELOPMENT MILESTONES:

Enter Milestones Here.

	PLANNED	ACCOMPLISHED
REDUCED SIZE JTT CONTRACT AWARD	MAR 99	
CONTRACTOR TEST	APR 00	
INITIAL DELIVERY FUE	JUN 00	

Installation Schedule:

Pr Yr	FY 1999				FY 2000				FY 2001				FY 2002				FY 2003			
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Totals																				
Inputs																				
Outputs							5	5												

	FY 2004				FY 2005				FY 2006				FY 2007				To Complete	Totals
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4		
Inputs																		
Outputs																		10

METHOD OF IMPLEMENTATION:

ADMINISTRATIVE LEADTIME: 3 Months

PRODUCTION LEADTIME: 15 Months

Contract Dates: FY 1999 MAR 99

FY 2000

FY 2001

Delivery Date: FY 1999

FY 2000 JUN 00

FY 2001

INDIVIDUAL MODIFICATION

Date

February 1999

MODIFICATION TITLE (Cont): REDUCED SIZE JTT (NON-RECURRING & RECURRING 1-98-XXX1)

FINANCIAL PLAN: (\$ in Millions)

	FY 1998 and Prior		FY 1999		FY 2000		FY 2001		FY 2002		FY 2003		FY 2004		FY 2005		TC		TOTAL		
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	
RDT&E																					
PROCUREMENT																					
Kit Quantity	77																			77	
Installation Kits	77	0.9																		77	0.9
Installation Kits, Nonrecurring	77	0.5																		77	0.5
Equipment			10	1.0																10	1.0
Equipment, Nonrecurring																					
Engineering Change Orders				5.5																	5.5
Data																					
Training Equipment																					
Support Equipment																					
Other		0.4																			0.4
Interim Contractor Support																					
Installation of Hardware																					
FY 1998 & Prior Eqpt -- Kits																					
FY 1999 Eqpt -- Kits																					
FY 2000 Eqpt -- Kits																					
FY 2001 Eqpt -- Kits																					
FY 2002 Eqpt -- kits																					
FY 2003 Eqpt -- kits																					
FY 2004 Eqpt -- kits																					
FY 2005 Eqpt -- kits																					
TC Equip-Kits																					
Total Installment																					
Total Procurement Cost		1.8		6.5																	8.3

Exhibit P-40, Budget Item Justification Sheet

Date: February 1999

Appropriation / Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment
 P-1 Item Nomenclature: DIGITAL TOPOGRAPHIC SPT SYS (DTSS) (TIAR (KA2550))

Program Elements for Code B Items: Code: Other Related Program Elements:

	Prior Years	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	To Complete	Total Prog
Proc Qty	58	3	4	10	36	12	3	4	5	12		147
Gross Cost	42.9	6.4	7.2	21.2	24.5	20.2	4.5	4.5	29.6	64.3	74.0	299.4
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	42.9	6.4	7.2	21.2	24.5	20.2	4.5	4.5	29.6	64.3	74.0	299.4
Initial Spares												
Total Proc Cost	42.9	6.4	7.2	21.2	24.5	20.2	4.5	4.5	29.6	64.3	74.0	299.4
Flyaway U/C												
Wpn Sys Proc U/C												

DESCRIPTION:

The current terrain analysis, topographic and reproduction support provided by Army Engineer Terrain Teams are slow, labor intensive processes that do not meet the needs of the Force XXI digitized battlefield in which the commander must have the ability to rapidly obtain terrain information and topographic products such as cross-country movement, concealment, supply routes, avenues of approach, and line of sight. The DTSS will automate the updating and processing of terrain information into terrain analysis products, provide rapid reproduction of low volume, up-to-date, large format, full color imagery maps, situation overlays, special graphics (e.g., captured enemy maps) and other topographic and terrain products. The Combat Terrain Information Systems (CTIS) Modernization Plan, approved in April 1994 by the Combat Developer, emphasized the development of a combined, integrated terrain analysis and graphics reproduction capability. With the advent of new technology, these capabilities can be provided in an integrated and downsized (HMMWV) configuration (DTSS-Light). The DTSS-Light is capable of supporting highly mobile contingency operations, stability and support operations, and split based operations. The DTSS-Heavy incorporates terrain analysis and reproduction capabilities into a single platform while preserving the Army's investment in the 5-ton system. The DTSS-Deployable (D)(formerly the DTSS-Multispectral Imagery Processor (MSIP)) provides a digital capability to generate and print image maps where standard NIMA map products do not exist. The DTSS-D has been upgraded to a commercial configuration that operates all of the software available on the DTSS-L and DTSS-H. The DTSS-Base (formerly the Topographic Imagery Integration Prototype (TIIP)) is designed to augment NIMA capabilities at the EAC level by providing quick response, special purpose mapping, terrain analysis and data base generation. The DTSS-B includes a Top Secret - SCI component that is capable of handling national asset information in a secure environment. CTIS systems operate within the Army Battle Command System architecture and are deployed from Brigade through EAC. CTIS systems are vital players in Army Digitization and in the quest for Information Dominance.

Exhibit P-40C Budget Item Justification Sheet

Date

February 1999

Appropriation / Budget Activity/Serial No.

OTHER PROCUREMENT / 2 / Communications and Electronics Equipment

P-1 Item Nomenclature

DIGITAL TOPOGRAPHIC SPT SYS (DTSS) (TIAR (KA2550)

Program Elements for Code B Items

Code

Other Related Program Elements

JUSTIFICATION:

FY00/01 funding will be used for procurement of the DTSS-L (FY00/01), DTSS-D(FY00) and DTSS-B (FY01). Procurement of the DTSS-L in FY00/01 supports HQDA approved Army Order of Precedence fielding requirements. DTSS-D and DTSS-B procurement is in accordance with a HQDA approved 5-yr. cyclic upgrade plan for modernization of Commercial Off-the-Shelf (COTS) and Non-developmental Item (NDI) components. Based upon lessons learned from the Division XXI Army Warfighter Experiment, HQ TRADOC has approved an ORD requirement to field the DTSS-L to Brigade level. The FY00-01 OPA funding profile has been increased to reflect the Brigade requirement. CTIS systems will be fielded to Army Engineer Terrain Teams in CONUS (FORSCOM), USAEUR, Hawaii, and Korea (PACOM).

Exhibit P-5, Weapon OPA Cost Analysis		Appropriation/ Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment			P-1 Line Item Nomenclature: DIGITAL TOPOGRAPHIC SPT SYS (DTSS) (TIAR (KA2550))			Weapon System Type:			Date: February 1999			
OPA Cost Elements		ID	FY 98			FY 99			FY 00			FY 01		
		CD	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
			\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000
1. Hardware		A												
a. DTSS-Deployable (Enhancements)									9302	28	332			
b. DTSS-Heavy			5000	4	1250									
c. DTSS-Light						13822	20	691	10828	16	677	12140	18	674
d. DTSS-Base (Enhancements)												3110	3	1037
2. Engineering Support														
a. DTSS ECP Engineering			200			1200			1200			1300		
b. Misc Out-of-House Engineering			300			300			300			400		
3. Fielding														
a. Total Package Fielding			250			400			510			560		
b. New Equipment Training			275			450			610			660		
c. First Destination Transportation			66			200			450			600		
4. Project Management and Administration			800			800			900			900		
5. Interim Contractor Support			300			300			400			500		
6. Institutional Training (Hardware & Software Procurement)						3700								
TOTAL			7191			21172			24500			20170		
Note: DTSS-L Qty increase reflects approved BOIP change from dual shelter to single shelter configuration.														

Exhibit P-5a, Budget Procurement History and Planning

Date: February 1999

Appropriation / Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment		Weapon System Type:			P-1 Line Item Nomenclature: DIGITAL TOPOGRAPHIC SPT SYS (DTSS) (TIAR (KA2550))					
WBS Cost Elements: Fiscal Years	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY Each	Unit Cost \$000	Specs Avail Now?	Date Revsn Avail	RFP Issue Date
a. DTSS-Deployable (Enhancements) FY 00	TBS	C/FP	USA Topo Eng Center	Nov-99	May-00	28	332	No		
b. DTSS-Heavy FY 98	SFA Inc., Frederick, MD	C/FP	Aberdeen Proving Grounds	Feb-98	Nov-98	4	1250	Yes		
c. DTSS-Light FY 99	TBS	C/FP	USA Topo Eng Center	Feb-99	Feb-00	20	691	Yes		
FY 00	TBS	C/FP	USA Topo Eng Center	Nov-99	Nov-00	16	677	Yes		
FY 01	TBS	C/FP	USA Topo Eng Center	Nov-00	Nov-01	18	674	Yes		
d. DTSS-Base (Enhancements) FY 01	TBS	C/FP	USA Topo Eng Center	Nov-00	May-01	3	1037	No		

REMARKS: FY00/01 funding will be used for procurement of the DTSS-L (FY00/01), DTSS-D(FY00) and DTSS-B (FY01). Procurement of the DTSS-L in FY00/01 supports HQDA approved Army Order of Precedence delivery requirements. DTSS-D and DTSS-B procurement is in accordance with a HQDA approved 5-yr. cyclic upgrade plan for modernization of Commercial Off-the-Shelf (COTS) and Non-developmental Item (NDI) components.

Exhibit P-40, Budget Item Justification Sheet

Date: February 1999

Appropriation / Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment
 P-1 Item Nomenclature: TACTICAL EXPLOITATION OF NATIONAL CAPABILITIES (BZ7315)

Program Elements for Code B Items: Code: Other Related Program Elements:

	Prior Years	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	To Complete	Total Prog
Proc Qty												
Gross Cost	95.0	1.8	1.6	6.1	4.4	12.9	13.9	15.7	3.9	2.9	0.0	158.2
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	95.0	1.8	1.6	6.1	4.4	12.9	13.9	15.7	3.9	2.9	0.0	158.2
Initial Spares												
Total Proc Cost	95.0	1.8	1.6	6.1	4.4	12.9	13.9	15.7	3.9	2.9	0.0	158.2
Flyaway U/C												
Wpn Sys Proc U/C												

Description: The Tactical Exploitation of National Capabilities (TENCAP) Program provides tactical commanders with rapid access to critical information collected by National Intelligence Sources. To date, the program has been responsible for provisioning the AN/TSQ 134(V) (Advanced Electronic Processing and Dissemination System (AEPDS), the Forward Area Support Terminal (FAST), the Mobile Integrated Tactical Terminal (MITT) and the emerging Tactical Exploitation System (TES) to Army Echelons Above Corps, Corps and maneuver divisions. All systems are characterized as stand alone systems, with multiple communications capability defined in UHF S-Band and terrestrial communications packages, and with the exception of FAST, systems are contained in shelters or vans, with a dedicated primemover and system operators. The TENCAP Program also manages the Enhanced Tactical Radar Correlator (ETRAC) and the Modernized Imagery Exploitation System (MIES). Further information may be found at the Tactical Intelligence and Related Activities (TIARA) Congressional Justification Book, Volume II and the Army's TENCAP Master Plan.

Justification: The FY00/01 funds procure both military and commercial hardware and software (GOTS/COTS) capabilities to enhance TENCAP systems' performance and to maintain interoperability with National systems and Army tactical communications architecture. The Units procured under this line are components that are incorporated into all TENCAP systems (including ETRAC and MIES) and fall under the TENCAP Common Baseline Project, which addresses common subsystems, planned improvements, key activities and ongoing/planned initiatives determined to have potential application to multiple TENCAP systems. The FY00/01 funds procure both military and commercial hardware and software (GOTS/COTS) capabilities necessary to field the TES which brings all of the existing and emerging Army TENCAP capabilities into an integrated common baseline; downsized, modular and scalable to meet a wide range of contingency requirements as well as incorporates the standards and protocols dictated by the Common Imagery Ground/Surface System (CIG/SS) program.

Exhibit P-5, Weapon OPA Cost Analysis		Appropriation/ Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment			P-1 Line Item Nomenclature: TACTICAL EXPLOITATION OF NATIONAL CAPABILITIES (BZ7315)			Weapon System Type:			Date: February 1999			
OPA Cost Elements		ID	FY 98			FY 99			FY 00			FY 01		
		CD	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
			\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000
- TMV Van			1618	3	539	1673	3	558				2400	4	600
- DAMA Capable Radios									3740	7	534	4446	8	556
-Common Imagery Processor												3000	4	750
- Increased carrying capacity HMMWV									100	9	11	100	9	11
-Sterling CSP									380	2	190	800	4	200
-MIDAS												2000	2	1000
-GBS Receiver												200	4	50
-Communications Guard									150	3	50			
-Grenadier Brat						4400	400	11						
TOTAL			1618			6073			4370			12946		
<p>DAMA: Demand Assigned Multiple Access for UHF Satellite Communications</p> <p>TES: Tactical Exploitation System</p> <p>DTES: Division TacticalExploitation System</p> <p>TMV: Tactical Mission Van</p> <p>CSP:Communications System Processor</p> <p>GBS: Global Broadcast System</p>														

Exhibit P-5a, Budget Procurement History and Planning

Date:
February 1999

Appropriation / Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment		Weapon System Type:			P-1 Line Item Nomenclature: TACTICAL EXPLOITATION OF NAT'L CAPABILITIES (BZ7315)					
WBS Cost Elements: Fiscal Years	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY Each	Unit Cost \$000	Specs Avail Now?	Date Revsn Avail	RFP Issue Date
FY 98 - TMV Van	Classified	C/CPAF	Classified	1Q98	4Q98	3	539	Yes		
FY 99 - TMV Van	Classified	C/CPAF	Classified	2Q99	4Q99	3	558	Yes		
FY 01 - TMV Van	Classified	C/CPAF	Classified	2Q01	4Q01	4	600	Yes		
FY 00 - DAMA Capable Radios	Classified	SS/CPAF	Classified	3Q00	2Q01	7	534	Yes		
FY 01 - DAMA Capable Radios	Classified	SS/CPAF	Classified	2Q01	1Q02	8	556	Yes		
FY 01 - Common Imagery Processor	Northrup Grumman	C/CPAF	USAF ASC	1Q01	1Q02	4	750	Yes		
FY 00 - Increased Capacity HMMWV	OGA	N/A	N/A	1Q00	4Q00	9	11	Yes		
FY 01 - Increased Capacity HMMWV	OGA	N/A	N/A	1Q01	4Q01	9	11	Yes		
FY 00 - Sterling CSP	TBD	TBD	TBD	1Q00	4Q00	2	190	Yes		
FY 01 - Sterling CSP	TBD	TBD	TBD	1Q01	4Q01	4	200	Yes		
FY 01 - MIDAS	Classified	SS/CPAF	Classified	1Q01	1Q02	2	1000	Yes		
FY 01 - GBS Receiver	Raytheon Co, Marlboro, MA	C/CPAF	TBD	2Q01	4Q01	4	50	Yes		
FY 00 - Communications Guard	TBD	TBD	TBD	2Q00	4Q00	3	50	Yes		
FY 99 - Grenadier Brat	Classified	SS/CPAF	ARL	2Q99	4Q99	400	11	Yes		

REMARKS: TMV: Tactical Mission Van
DAMA: Demand Assigned Multiple Access for UHF Satellite Communications
CSP: Communications System processor
GBS: Global Broadcast System

Exhibit P-40, Budget Item Justification Sheet

Date: February 1999

Appropriation / Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment
 P-1 Item Nomenclature: COMMON IMAGERY GROUND/SURFACE SYSTEM (CIGSS) (BZ7316)

Program Elements for Code B Items: Code: Other Related Program Elements:

	Prior Years	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	To Complete	Total Prog
Proc Qty												
Gross Cost	0.0	0.0	0.0	2.5	2.8	2.9	2.6	2.6	2.7	2.8	Cont	Cont
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	0.0	0.0	0.0	2.5	2.8	2.9	2.6	2.6	2.7	2.8	Cont	Cont
Initial Spares												
Total Proc Cost	0.0	0.0	0.0	2.5	2.8	2.9	2.6	2.6	2.7	2.8	Cont	Cont
Flyaway U/C												
Wpn Sys Proc U/C												

Description: The Common Imagery Ground/Surface System (CIGSS) is a Department of Defense (DoD) project aggregating all imagery ground/surface systems into a single project. The CIGSS objective is to enable all systems to receive, process, exploit, and report any imagery source regardless of platform or sensor type to meet the intelligence and targeting needs of tactical commanders. The CIGSS project provides the warfighter with an integrated and interoperable airborne reconnaissance imagery processing and exploitation capability that can be tailored for all levels of conflict. CIGSS consolidates the JROC and DARSC approved restructure of the Joint Service Imagery Processing System (JSIPS) program including the JSIPS-Navy, JSIPS-Air Force, JSIPS-Marine Corps, Enhanced Tactical Radar Correlator (ETRAC), Modernized Imagery Exploitation System (MIES), PACAF Interim National Exploitation System (PINES), and Tactical Exploitation Group (TEG) into a single project.

Justification: The Army CIGSS components consist of the MIES, ETRAC, and the imagery portion of the Tactical Exploitation System (TES). ETRAC is a stand-alone synthetic radar (SAR) processing and limited exploitation system based on the Common SAR Processor (CSARP). ETRAC and MIES are combined in the TES to be fielded beginning in FY99. MIES is a COTS/GOTS developed system that receives and exploits national and theater imagery and generates intelligence reports and products.

FY98 and prior, this effort was funded through the DARO in PE 0305154D (FY 95/96/97) and 0305208D (FY 98).

Exhibit P-5, Weapon OPA Cost Analysis		Appropriation/ Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment			P-1 Line Item Nomenclature: COMMON IMAGERY GROUND SURFACE SYSTEM (BZ7316)			Weapon System Type:			Date: February 1999			
OPA Cost Elements		ID	FY 98			FY 99			FY 00			FY 01		
		CD	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
			\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000
Procure DEs						2501	2	1251	2791	2	1424	2853	2	1427
TOTAL						2501			2791			2853		
DE: Dissemination Element														

Exhibit P-5a, Budget Procurement History and Planning

Date: February 1999

Appropriation / Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment				Weapon System Type:		P-1 Line Item Nomenclature: COMMON IMAGERY GROUND SURFACE SYSTEM (BZ7316)				
WBS Cost Elements: Fiscal Years	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY Each	Unit Cost \$000	Specs Avail Now?	Date Revsn Avail	RFP Issue Date
Procure DEs										
FY 99	Lockheed Martin, Philadelphia PA	SS/CPAF	NIMA	2Q99	4Q99	2	1251	Yes		
FY 00	Lockheed Martin, Philadelphia PA	SS/CPAF	NIMA	2Q00	4Q00	2	1424	Yes		
FY 01	Lockheed Martin, Philadelphia PA	SS/CPAF	NIMA	2Q01	4Q01	2	1459	Yes		

REMARKS: DE: Dissemination Element

Exhibit P-40, Budget Item Justification Sheet

Date: September 1998

Appropriation / Budget Activity/Serial No:
OTHER PROCUREMENT / 2 / Communications and Electronics Equipment

P-1 Item Nomenclature:
JOINT TACTICAL GROUND STATION MODS (BZ8420)

Program Elements for Code B Items:

Code:

Other Related Program Elements:

	Prior Years	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	To Complete	Total Prog
Proc Qty												
Gross Cost	0.0	0.0	0.1	2.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.7
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	0.0	0.0	0.1	2.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.7
Initial Spares												
Total Proc Cost	0.0	0.0	0.1	2.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.7
Flyaway U/C												
Wpn Sys Proc U/C												

DESCRIPTION:

The Joint Tactical Ground Station (JTAGS) Modification program integrates the Joint Tactical Information Distribution System (JTIDS) into JTAGS to which will distribute JTAGS data via the Joint Theater Missile Defense (JTMD) communication nets, implement Year 2000 (Y2K) compliance changes, and fuse Defense Support Program (DSP) sensor data with data from other sensors for improved cueing and predicted ground impact point (PGIP) accuracies.

JUSTIFICATION:

FY99 funding procures and integrates JTIDS radios and sensor fusion improvements into JTAGS that are needed to interface directly with the Joint Theater Warning Net and improve cueing and PGIP accuracies.

Exhibit P-40, Budget Item Justification Sheet

Date: February 1999

Appropriation / Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment
 P-1 Item Nomenclature: TROJAN (TIARA) (BA0326)

Program Elements for Code B Items: Code: Other Related Program Elements:

	Prior Years	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	To Complete	Total Prog
Proc Qty												
Gross Cost	151.0	4.2	3.7	4.0	4.3	4.4	4.4	4.5	4.6	4.7	0.0	190.1
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	151.0	4.2	3.7	4.0	4.3	4.4	4.4	4.5	4.6	4.7	0.0	190.1
Initial Spares												
Total Proc Cost	151.0	4.2	3.7	4.0	4.3	4.4	4.4	4.5	4.6	4.7	0.0	190.1
Flyaway U/C												
Wpn Sys Proc U/C												

DESCRIPTION: TROJAN is a combined operational and readiness mission system which uses advanced networking technology to provide rapid relay; secure communications to include voice, data, facsimile; and electronic reconnaissance support to U.S. forces throughout the world. TROJAN operations may be easily tailored to fit military intelligence unit training schedules, and surged during specific events to involve every aspect of the tactical intelligence collection, processing analysis and reporting efforts.

JUSTIFICATION: Funds are for the collection and processing of system upgrades, dissemination enhancements, networking improvements, and migration to a National Common Remoted Systems (CRS) architecture, and to complete fielding of TROJAN SPIRIT 6.1m Mobile Antenna Platforms (MAP).

Exhibit P-5, Weapon OPA Cost Analysis		Appropriation/ Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment			P-1 Line Item Nomenclature: TROJAN (TIARA) (BA0326)			Weapon System Type:			Date: February 1999		
OPA Cost Elements		FY 98			FY 99			FY 00			FY 01		
ID	CD	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
		\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000
TROJAN CLASSIC (TIARA)		3225			3519			4268			4382		
TROJAN SPIRIT - TERMINALS (TIARA)		462			461								
TOTAL		3687			3980			4268			4382		

Exhibit P-40, Budget Item Justification Sheet

Date:

February 1999

Appropriation / Budget Activity/Serial No:

OTHER PROCUREMENT / 2 / Communications and Electronics Equipment

P-1 Item Nomenclature:

TROJAN CLASSIC (TIARA) (BA0331)

Program Elements for Code B Items:

Code:

Other Related Program Elements:

	Prior Years	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	To Complete	Total Prog
Proc Qty												
Gross Cost	98.3	2.1	3.2	3.5	4.3	4.4	4.4	4.4	4.6	4.7	0.0	134.0
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	98.3	2.1	3.2	3.5	4.3	4.4	4.4	4.4	4.6	4.7	0.0	134.0
Initial Spares												
Total Proc Cost	98.3	2.1	3.2	3.5	4.3	4.4	4.4	4.4	4.6	4.7	0.0	134.0
Flyaway U/C												
Wpn Sys Proc U/C												

DESCRIPTION: TROJAN is a combined operational and readiness mission system which uses advanced networking technology to provide rapid radio relay; secure communications and electronic reconnaissance support to U.S. forces throughout the world. TROJAN operations may be easily tailored to fit military intelligence unit training schedules, and surged during specific events to involve every aspect of the tactical intelligence collection, processing, analysis and reporting efforts.

TROJAN Classic consist of four subsystems: Remote Receiver Groups, located at border sites; Monitor Control Groups to include analyst workstation groups, located at unit garrisons; digital data switching group which provides the automated switching capability; and switch extensions which provide operational control, intelligence dissemination, administrative and logistics functions.

JUSTIFICATION: Funds for collection and processing system upgrades to the TROPJAN Classic system and migration to a National Common Remoted Systems (CRS) architecture.

Exhibit P-5, Weapon OPA Cost Analysis		Appropriation/ Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment			P-1 Line Item Nomenclature: TROJAN CLASSIC (TIARA) (BA0331)			Weapon System Type:			Date: February 1999			
OPA Cost Elements		ID	FY 98			FY 99			FY 00			FY 01		
		CD	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
			\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000
Hardware Procurement			2550	VAR	VAR	2855	VAR	VAR	3593	VAR	VAR	3707	VAR	VAR
Engineering/Technical Support														
In-House			500			500			500			500		
Contractor			175			175			175			175		
TOTAL			3225			3530			4268			4382		

Exhibit P-5a, Budget Procurement History and Planning

Date:
February 1999

Appropriation / Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment				Weapon System Type:		P-1 Line Item Nomenclature: TROJAN CLASSIC (TIARA) (BA0331)				
WBS Cost Elements: Fiscal Years	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY Each	Unit Cost \$OOO	Specs Avail Now?	Date Revsn Avail	RFP Issue Date
Hardware Procurement FY98	Hewlet Packard, MD	C/FP(Op)	CECOM	Dec-97	Apr-98	VAR	VAR	YES	NO	
	ASC, Winterpark, FL	FP(Op)	CECOM	Apr-98	Aug-98	VAR	VAR	YES	NO	
	Sun Microsystems	FP(Op)	GSA	Apr-98	Jul-98	VAR	VAR	YES	NO	
	CISCO Systems, Waltham MA	FP(Op)	GSA	May-98	Aug-98	VAR	VAR	YES	NO	
	OAO, Greenbelt, MD	FP(Op)	NIH	Jul-98	Oct-98	VAR	VAR	YES	NO	
Hardware Procurement FY99	Novas Technology, Alex. VA	FP(Op)	CECOM	Dec-98	May-99	VAR	VAR	YES	NO	
	Sun Microsystems	FP(Op)	GSA	Jan-99	May-99	VAR	VAR	YES	NO	
	CISCO Systems, Waltham MA	FP(Op)	GSA	Mar-99	Jul-99	VAR	VAR	YES	NO	
	Watkins Johnson	FP(Op)	CECOM	Apr-99	Sep-99	VAR	VAR	YES	NO	
	Dynamic Instruments	FP(Op)	GSA Fast	Apr-99	Sep-99	VAR	VAR	YES	NO	
Hardware Procurement FY00	Andrews-SICOM, Garland, TX	FP(Op)	GSA	Nov-99	May-00	VAR	VAR	YES	NO	
	Sun Microsystems	FP(Op)	GSA	Dec-99	May-00	VAR	VAR	YES	NO	
	STC Olectron	FP(Op)	GSA Fast	Mar-00	Jul-00	VAR	VAR	YES	NO	
	Dynamic Instruments, CA	FP(Op)	GSA Fast	Apr-00	Sep-00	VAR	VAR	YES	NO	
Hardware Procurement FY01	Andrews-SICOM, Garland, TX	FP(Op)	GSA	Nov-00	May-01	VAR	VAR	YES	NO	
	Sun Microsystems	FP(Op)	GSA	Dec-00	May-01	VAR	VAR	YES	NO	
	CISCO Systems, Waltham MA	FP(Op)	GSA	Mar-01	Jul-01	VAR	VAR	YES	NO	
	Watkins Johnson	FP(Op)	GSA	Apr-01	Sep-01	VAR	VAR	YES	NO	

REMARKS: Peculiarities of specific TROJAN Classic XXI mission and fielding locations require subsystems to be compatible and interoperable, but hardware may vary from location to location due to specific mission requirements. Hardware acquisitions reflect this requirement.

Exhibit P-40, Budget Item Justification Sheet

Date: February 1999

Appropriation / Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment
 P-1 Item Nomenclature: TROJAN SPIRIT - TERMINALS (TIARA) (BA0333)

Program Elements for Code B Items: Code: Other Related Program Elements:

	Prior Years	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	To Complete	Total Prog
Proc Qty												
Gross Cost	44.2	2.1	0.5	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	47.2
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	44.2	2.1	0.5	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	47.2
Initial Spares												
Total Proc Cost	44.2	2.1	0.5	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	47.2
Flyaway U/C												
Wpn Sys Proc U/C												

DESCRIPTION: The TROJAN SPIRIT II is a collection of electronics equipment which provides contingency forces with an operational readiness capability providing an intelligence processing and dissemination system consisting of secure voice, secure data, secure facsimile and secondary imagery worldwide via an organic long haul satellite communications network split-based, multi-echelon force projection operations.

TROJAN SPIRIT II systems consist of five major subsystems: power generation subsystem; communications subsystem (C, Ku, X Bands; (HF/MSE/CTT receive only) UHF SatCom); prime mission movers with shelters; and communications interface equipment.

JUSTIFICATION: Funds for completion of fielding of the TROJAN SPIRIT II 6.1 meter Mobile Antenna Platforms.

Exhibit P-5, Weapon OPA Cost Analysis		Appropriation/ Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment			P-1 Line Item Nomenclature: TROJAN SPIRIT - TERMINALS (TIARA) (BA0333)			Weapon System Type:			Date: February 1999			
OPA Cost Elements		ID	FY 98			FY 99			FY 00			FY 01		
		CD	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
			\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000
TROJAN 6.1m MAP Fielding Support			462	VAR	VAR	461	VAR	VAR						
TOTAL			462			461								

Exhibit P-5a, Budget Procurement History and Planning

Date: February 1999

Appropriation / Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics
 Equipment

Weapon System Type:

P-1 Line Item Nomenclature: TROJAN SPIRIT - TERMINALS (TIARA) (BA0333)

WBS Cost Elements: Fiscal Years	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY Each	Unit Cost \$000	Specs Avail Now?	Date Revsn Avail	RFP Issue Date
Contractor Fielding/Deployment Support FY 98 FY 99	Raytheon E-Systems, TX Raytheon E-Systems, TX	C/FP(Op) C/FP(Op)	CECOM CECOM	Aug-98 Sep-99	Jul-99 Oct-99	VAR VAR	VAR VAR	YES YES	NO NO	

REMARKS:

Exhibit P-40, Budget Item Justification Sheet

Date: February 1999

Appropriation / Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment
 P-1 Item Nomenclature: MOD OF IN-SVC EQUIP (INTEL SPT) (TIARA) (BZ9750)

Program Elements for Code B Items: Code: Other Related Program Elements:

	Prior Years	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	To Complete	Total Prog
Proc Qty												
Gross Cost	209.5	14.4	1.6	4.9	9.1	2.8	2.9	0.1	5.9	9.8	Cont	Cont
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	209.5	14.4	1.6	4.9	9.1	2.8	2.9	0.1	5.9	9.8	Cont	Cont
Initial Spares												
Total Proc Cost	209.5	14.4	1.6	4.9	9.1	2.8	2.9	0.1	5.9	9.8	Cont	Cont
Flyaway U/C												
Wpn Sys Proc U/C												

DESCRIPTION:

Modifications of in service equipment (MODS) provide for three materiel change/upgrades to: (1) TRAILBLAZER, AN/TSQ-138, SINGGARS Interference Cancellation upgrade to resolve problems (hardware and software) associated with integration of the Single Channel Ground and Airborne Radio system (SINGGARS). SINGGARS is the new generation of Combat Net Radio (CNR). SINGGARS is replacing the AN/VRC-12 family of single channel radios. The integration of SINGGARS requires other hardware and software changes because of differences from the AN/VRC-12 series radios being replaced. (2) The AN/PRD-13(V)2 provides for an organic system that can intercept, DF and provide threat warning and situational awareness information directly to the support unit. The system is modular, very light weight, with minimal power requirements and configurable to support man-pack operations. (3) GBCS upgrades are required to support the units that will be deployed to the 82nd Airborne Division in response to an urgent operational need. The upgrades will sustain the systems in the field and allow performance to keep pace with expected threat.

JUSTIFICATION: The AN/PRD-13 will be fielded by Special Operations Command (SOCOM) to US Army Light Divisions. The FY 00 and FY 01 funding is required to support the GBCS LPU units which will be deployed to the 82nd ABN Division in FY00 in response to an urgent operational need.

Exhibit P-40M Budget Item Justification Sheet

Date
February 1999

Appropriation / Budget Activity/Serial No. OTHER PROCUREMENT / 2 / Communications and Electronics Equipment
P-1 Item Nomenclature MOD OF IN-SVC EQUIP (INTEL SPT) (TIARA) (BZ9750)

Program Elements for Code B Items Code Other Related Program Elements

Description		Fiscal Years									
OSIP NO.	Classification	FY 1998 and p	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	TC	Total
SINCGARS Interference Cancellation											
1-91-07-0003	Operational	32.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	32.6
AN/PRD-13(V)2 Procurement											
1-97-07-0001	Operational	0.0	4.9	8.1	0.2	0.2	0.1	1.0	2.0	0.0	16.5
GBCS Upgrades											
1-97-07-0002	Operational	0.0	0.0	1.0	2.6	2.7	0.0	4.9	7.8	Cont	Cont
Totals		32.6	4.9	9.1	2.8	2.9	0.1	5.9	9.8	Cont	Cont

INDIVIDUAL MODIFICATION

Date February 1999

MODIFICATION TITLE: SINGGARS Interference Cancellation 1-91-07-0003

MODELS OF SYSTEMS AFFECTED: AN/TSQ-138(TRAILBLAZER)

DESCRIPTION / JUSTIFICATION:

This Materiel Change will resolve problems (hardware and software) associated with integration of the Single Channel Ground and Airborne Radio system (SINGGARS) into Intelligence Electronic Warfare (IEW) systems. SINGGARS is the new generation of Combat Net Radio (CNR). It is replacing the AN/VRC-12 family of single channel radios. SINGGARS provides effective Electronic Counter-Countermeasures (ECCM) by randomly hopping to preassigned frequencies. This random hopping causes anomalies in IEW mission equipment which require hardware/software changes. In addition, its integration into IEW systems requires other hardware and software changes because of differences from the AN/VRC-12 series radios being replaced. This modification program to be completed in December 1999.

DEVELOPMENT STATUS / MAJOR DEVELOPMENT MILESTONES:

	Planned	Accomplished
Inprocess Review/Production Decision	Sep 93	Sep 93
Contract Award for 3 Models	Mar 94	Mar 94
Competitive Production Contract Award	Jun 96	Jun 96
Materiel Fielding Agreement/MWO Field Plan Negotiated	Feb 98	Feb 98
First Kit Applied	Oct 97	Oct 97
Last Kit Applied	Dec 99	

Installation Schedule:

Pr Yr	FY 1999				FY 2000				FY 2001				FY 2002				FY 2003			
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Inputs	37																			
Outputs	30				7															

	FY 2004				FY 2005				FY 2006				FY 2007				To Complete	Totals
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4		
Inputs																		37
Outputs																		37

METHOD OF IMPLEMENTATION:

ADMINISTRATIVE LEADTIME:

Months

PRODUCTION LEADTIME:

Months

Contract Dates: FY 1999
 Delivery Date: FY 1999

FY 2000
 FY 2000

FY 2001
 FY 2001

INDIVIDUAL MODIFICATION

Date

February 1999

MODIFICATION TITLE (Cont): SINGARS Interference Cancellation 1-91-07-0003

FINANCIAL PLAN: (\$ in Millions)

	FY 1998 and Prior		FY 1999		FY 2000		FY 2001		FY 2002		FY 2003		FY 2004		FY 2005		TC		TOTAL		
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	
RDT&E																					
PROCUREMENT																					
Kit Quantity	37	26.6																		37	26.6
Installation Kits																					
Installation Kits, Nonrecurring																					
Equipment																					
Equipment, Nonrecurring																					
Engineering Change Orders		0.5																			0.5
Data		0.3																			0.3
Training Equipment																					
Support Equipment																					
Other		3.5																			3.5
Interim Contractor Support																					
Installation of Hardware																					
FY 1998 & Prior Eqpt -- Kits	37	1.7																		37	1.7
FY 1999 Eqpt -- Kits																					
FY 2000 Eqpt -- Kits																					
FY 2001 Eqpt -- Kits																					
FY 2002 Eqpt -- kits																					
FY 2003 Eqpt -- kits																					
FY 2004 Eqpt -- kits																					
FY 2005 Eqpt -- kits																					
TC Equip-Kits																					
Total Installment	37	1.7																		37	1.7
Total Procurement Cost		32.6																			32.6

INDIVIDUAL MODIFICATION

Date February 1999

MODIFICATION TITLE: AN/PRD-13(V)2 Procurement 1-97-07-0001

MODELS OF SYSTEMS AFFECTED: AN/PRD-12 Interim Fix

DESCRIPTION / JUSTIFICATION:

The AN/PRD-12 is a man-transportable radio direction finding (DF) system fielded to Army units that performs intercept and line of bearing measurements and provides fix calculations when operating in the netted mode. The Army units rarely use the netting capability of the AN/PRD-12 as it is operationally difficult to establish and bears little influence on mission success. A requirement exists for an organic system to provide threat warning and situational awareness information directly to the supported unit. The system must be modular, very light weight, with minimal power requirements and configurable to support man-pack operations.

JUSTIFICATION: The AN/PRD-13(V)2 procurement is an interim fix for the AN/PRD-12. Headquarters Department of the Army has directed the AN/PRD-13 be fielded by Special Operations Command (SOCOM) to US Army Light Divisions. The sustainment will be provided by Contractor Logistics Support with the primary vendor. All fielding and training will be accomplished by SOCOM.

DEVELOPMENT STATUS / MAJOR DEVELOPMENT MILESTONES:

Contract Award Date	PLANNED: Jan 99	ACCOMPLISHED:
First Production Hardware Delivered	Dec 99	
Materiel Fielding Agreement/MWO Fielding Plan	Jul 99	
First Kit Applied	Nov 99	
Last Kit Applied	Oct 00	

Installation Schedule:

Pr Yr	FY 1999				FY 2000				FY 2001				FY 2002				FY 2003			
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Inputs					30	30	30	30	30											
Outputs					30	30	30	30	30											

	FY 2004				FY 2005				FY 2006				FY 2007				To Complete	Totals
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4		
Inputs																		150
Outputs																		150

METHOD OF IMPLEMENTATION: ADMINISTRATIVE LEADTIME: 12 Months PRODUCTION LEADTIME: 12 Months

Contract Dates: FY 1999 Jan 99 FY 2000 Nov 99 FY 2001
 Delivery Date: FY 1999 Jan 00 FY 2000 Nov 00 FY 2001

INDIVIDUAL MODIFICATION

Date February 1999

MODIFICATION TITLE (Cont): AN/PRD-13(V)2 Procurement 1-97-07-0001

FINANCIAL PLAN: (\$ in Millions)

	FY 1998 and Prior		FY 1999		FY 2000		FY 2001		FY 2002		FY 2003		FY 2004		FY 2005		TC		TOTAL		
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	
RDT&E																					
PROCUREMENT																					
Kit Quantity																					
Installation Kits			55	4.9	95	8.1														150	13.0
Installation Kits, Nonrecurring Equipment																					
Equipment, Nonrecurring																					
Engineering Change Orders																					
Data																					
Training Equipment																					
Support Equipment																					
Other - Sustainment								0.2	0.2		0.1		1.0		2.0						3.5
Interim Contractor Support																					
Installation of Hardware																					
FY 1998 & Prior Eqpt -- Kits																					
FY 1999 Eqpt -- Kits					55																55
FY 2000 Eqpt -- Kits					65		30														95
FY 2001 Eqpt -- Kits																					
FY 2002 Eqpt -- kits																					
FY 2003 Eqpt -- kits																					
FY 2004 Eqpt -- kits																					
FY 2005 Eqpt -- kits																					
TC Equip-Kits																					
Total Installment						120	30														150
Total Procurement Cost				4.9		8.1		0.2	0.2		0.1		1.0		2.0						16.5

INDIVIDUAL MODIFICATION

Date February 1999

MODIFICATION TITLE: GBCS Upgrades 1-97-07-0002

MODELS OF SYSTEMS AFFECTED: GBCS-L LP(U)

DESCRIPTION / JUSTIFICATION:

Funding is required to support the LPU units which will be deployed to the 82nd ABN Div in FY00 in response to an urgent operational need. The efforts will sustain them in the field and allow performance to keep pace with expected threat.

DEVELOPMENT STATUS / MAJOR DEVELOPMENT MILESTONES:

PLANNED

ACCOMPLISHED

Fielding/Deployment

JUN 00

Installation Schedule:

Pr Yr	FY 1999				FY 2000				FY 2001				FY 2002				FY 2003			
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Totals																				
Inputs																				
Outputs																				

	FY 2004				FY 2005				FY 2006				FY 2007				To Complete	Totals
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4		
Inputs																		
Outputs																		

METHOD OF IMPLEMENTATION:

ADMINISTRATIVE LEADTIME:

PRODUCTION LEADTIME:

Contract Dates: FY 1999
 Delivery Date: FY 1999

FY 2000
 FY 2000

FY 2001
 FY 2001

INDIVIDUAL MODIFICATION

Date

February 1999

MODIFICATION TITLE (Cont): GBCS Upgrades 1-97-07-0002

FINANCIAL PLAN: (\$ in Millions)

	FY 1998 and Prior		FY 1999		FY 2000		FY 2001		FY 2002		FY 2003		FY 2004		FY 2005		TC		TOTAL		
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	
RDT&E																					
PROCUREMENT																					
Kit Quantity																					
Installation Kits																					
Installation Kits, Nonrecurring																					
Equipment																					
Equipment, Nonrecurring																					
Engineering Change Orders								0.5	0.5												1.0
Data							0.1	0.1													0.2
Training Equipment																					
Support Equipment																					
Other													4.9	7.8							12.7
Interim Contractor Support						1.0	2.0	2.1													5.1
Installation of Hardware																					
FY 1998 & Prior Eqpt -- Kits																					
FY 1999 Eqpt -- Kits																					
FY 2000 Eqpt -- Kits																					
FY 2001 Eqpt -- Kits																					
FY 2002 Eqpt -- kits																					
FY 2003 Eqpt -- kits																					
FY 2004 Eqpt -- kits																					
FY 2005 Eqpt -- kits																					
TC Equip-Kits																					
Total Installment																					
Total Procurement Cost						1.0	2.6	2.7				4.9	7.8								19.0

Exhibit P-40, Budget Item Justification Sheet

Date: February 1999

Appropriation / Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment
 P-1 Item Nomenclature: CI HUMINT AUTOMATED TOOL SET (CHATS) (TI (BK5275))

Program Elements for Code B Items: Code: Other Related Program Elements:

	Prior Years	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	To Complete	Total Prog
Proc Qty												
Gross Cost	0.0	0.0	0.0	3.7	3.1	0.4	1.5	3.9	5.2	1.5	1.0	20.2
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	0.0	0.0	0.0	3.7	3.1	0.4	1.5	3.9	5.2	1.5	1.0	20.2
Initial Spares												
Total Proc Cost	0.0	0.0	0.0	3.7	3.1	0.4	1.5	3.9	5.2	1.5	1.0	20.2
Flyaway U/C												
Wpn Sys Proc U/C												

DESCRIPTION: The Counter Intelligence/Human Intelligence (CI/HUMINT) Management System (CHIMS) is the All Source Analysis System (ASAS) CI/HUMINT subsystem. It is a counter intelligence and human intelligence automation system that meets Army tactical CI/HUMINT information collection, investigation, interrogation, operation, document exploitation, and force protection automation requirements. The architecture is built from four sub-elements:

- o Individual Tactical Reporting Tools (ITRT) for agent/interrogator remote operations.
- o CI/HUMINT Automated Tool Set (CHATS) which operates at the Counter Intelligence Team/Interrogation Prisoner of War (IPW) Team level.
- o Counter Intelligence and Interrogation Operations workstation (CI&I OPS) for DS/GS MI unit command and control which provides functional interfaces to the All Source Analysis System.
- o CI Single-Source Processors (CI SSP) which will operate within the ASAS Analysis and Control Element (ACE).

JUSTIFICATION: FY00 funding supports the replacement of CHATS fielded in FY97 that will have reached the end of their life cycle. Additionally, initial procurement cycle of the ITRTs will begin in FY00 and will continue through FY01. Second ITRT procurement cycle will begin in FY02.

Exhibit P-40, Budget Item Justification Sheet

Date: February 1999

Appropriation / Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment
 P-1 Item Nomenclature: ITEMS LESS THAN \$5.0M (TIARA) (BK5278)

Program Elements for Code B Items: Code: Other Related Program Elements:

	Prior Years	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	To Complete	Total Prog
Proc Qty												
Gross Cost	0.0	0.0	0.0	1.5	0.5	0.6	0.6	0.6	0.7	0.7	0.0	5.3
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	0.0	0.0	0.0	1.5	0.5	0.6	0.6	0.6	0.7	0.7	0.0	5.3
Initial Spares												
Total Proc Cost	0.0	0.0	0.0	1.5	0.5	0.6	0.6	0.6	0.7	0.7	0.0	5.3
Flyaway U/C												
Wpn Sys Proc U/C												

DESCRIPTION:
 This budget line supports automation requirements for the Army Intelligence and Electronic Warfare Master Plan (AIMP). The AIMP uses capabilities from the Force Integration Masterplanner (FIM) to develop decision support aids that facilitate development and display of intelligence force structure, architectures and systems. The FIM is a computer-based system of systems using commercial-off-the-shelf (COTS) software to support PPBES decision making in the Intelligence and Electronic Warfare (IEW) community. The AIMP is a publication mechanism that presents the IEW future vision to Army consumers over Intelink and Intelink-S.

JUSTIFICATION:
 FY00 funds will be used to continue replacing proprietary and obsolete hardware with standard COTS UNIX platforms and software. This provides the potential for interoperability with other UNIX applications, reduces hardware maintenance costs, and provides significantly better processing capability. FY99 funds will also be used to acquire high speed product servers for Intelink & Intelink-S networks making the FIM products available to any Army consumer, world-wide. Hardware and software procured will support Headquarters, Department of the Army, and FIM field support sites at Fort Belvoir, Fort Huachuca, and Fort Monmouth.

Exhibit P-40, Budget Item Justification Sheet

Date: February 1999

Appropriation / Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment
 P-1 Item Nomenclature: SHORTSTOP (VA8000)

Program Elements for Code B Items: 64270A/DL18
 Code: B
 Other Related Program Elements:

	Prior Years	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	To Complete	Total Prog
Proc Qty												
Gross Cost	11.0	5.0	5.8	10.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	31.8
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	11.0	5.0	5.8	10.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	31.8
Initial Spares												
Total Proc Cost	11.0	5.0	5.8	10.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	31.8
Flyaway U/C												
Wpn Sys Proc U/C												

DESCRIPTION: The SHORTSTOP Electronic Protection System (SEPS) is a fully integrated Radio Frequency Countermeasure system which is designed to provide protection for personnel and high value assets against proximity fuzes. There are three configurations of the SHORTSTOP Electronic Protection System: a manpack system, a stand alone system, and a vehicle mounted system. SHORTSTOP will maximize tactical utility and provide protection against indirect fire. SHORTSTOP will be used by Infantry, Engineering, Armor, Field Artillery and Intelligence units to enhance survivability.

JUSTIFICATION: FY97/98/99 funding supports an Urgent Requirement to provide SHORTSTOP vehicle mounted systems to Korea and Kuwait.

Exhibit P-5, Weapon OPA Cost Analysis		Appropriation/ Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment			P-1 Line Item Nomenclature: SHORTSTOP (VA8000)			Weapon System Type:			Date: February 1999		
OPA Cost Elements	ID CD	FY 98			FY 99			FY 00			FY 01		
		TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000
Hardware (SEPS)	B	5240	30	175	8400	48	175						
Hardware (Antennas)					384	48	8						
Government Engineering Support		169			350								
System Test/Evaluation		100			225								
Fielding/Contractor Logistics Support		150			270								
Program Management		121			344								
TOTAL		5780			9973								

Exhibit P-5a, Budget Procurement History and Planning

Date: February 1999

Appropriation / Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment		Weapon System Type:			P-1 Line Item Nomenclature: SHORTSTOP (VA8000)					
WBS Cost Elements: Fiscal Years	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY Each	Unit Cost \$000	Specs Avail Now?	Date Revsn Avail	RFP Issue Date
Hardware										
FY97	Condor/Whittaker Electronic Systems, Simi Valley, CA	SS/FFP	CECOM	Dec-97	Mar-99	14	290	No		
FY98	Condor/Whittaker Electronic Systems, Simi Valley, CA	Option	CECOM	Apr-98	Jun-99	30	175	No		
FY99	Condor/Whittaker Electronic Systems, Simi Valley, CA	SS/FFP	CECOM	Apr-99	Jun-00	48	175	No		

REMARKS:

FY 2000 / FY 2001 BUDGET PRODUCTION SCHEDULE

P-1 Item Nomenclature:

SHORTSTOP (VA8000)

Date:

February 1999

COST ELEMENTS	MFR	FY	SERV	PROC QTY Each	ACCEP. PRIOR TO 1 OCT	BAL DUE AS OF 1 OCT	Fiscal Year 00												Fiscal Year 01												L A T E R
							Calendar Year 00												Calendar Year 01												
							O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	
Hardware	1	FY 97	A	14	14																										
	1	FY 98	A	30	17	13	5	5	3																						
	1	FY99	A	48	0	48							6	6	6	6	6	6	6	6											

MFR	NAME / LOCATION	PRODUCTION RATES			REACHED	MFR Number	ADMIN LEAD TIME		MFR After 1 Oct.	TOTAL After 1 Oct.	REMARKS
		MIN.	1-8-5	MAX.			D +	Prior 1 Oct.			
1	Condor/Whittaker Electronic Systems, Simi Valley, CA	3	5	8	12	INITIAL	0	9	15	24	
						REORDER	0	2	12	14	
						INITIAL					
						REORDER					
						INITIAL					
						REORDER					
						INITIAL					
						REORDER					
						INITIAL					
						REORDER					

Exhibit P-40, Budget Item Justification Sheet

Date:

February 1999

Appropriation / Budget Activity/Serial No:

OTHER PROCUREMENT / 2 / Communications and Electronics Equipment

P-1 Item Nomenclature:

COUNTERINTELLIGENCE/SECURITY COUNTERMEAS (BL5283)

Program Elements for Code B Items:

Code:

Other Related Program Elements:

	Prior Years	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	To Complete	Total Prog
Proc Qty												
Gross Cost	7.3	0.0	2.3	1.7	1.7	2.4	2.4	2.4	2.4	2.5	0.0	25.1
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	7.3	0.0	2.3	1.7	1.7	2.4	2.4	2.4	2.4	2.5	0.0	25.1
Initial Spares												
Total Proc Cost	7.3	0.0	2.3	1.7	1.7	2.4	2.4	2.4	2.4	2.5	0.0	25.1
Flyaway U/C												
Wpn Sys Proc U/C												

CLASSIFIED PROGRAM. INFORMATION WILL BE PROVIDED UPON REQUEST.

Exhibit P-40, Budget Item Justification Sheet

Date: February 1999

Appropriation / Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment
 P-1 Item Nomenclature: SENTINEL (FAAD GBS) (WK5053)

Program Elements for Code B Items: Code: Other Related Program Elements:

	Prior Years	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	To Complete	Total Prog
Proc Qty	34	28	27	24	11	3	3	3	8	9	46	196
Gross Cost	133.5	68.9	58.9	57.9	38.4	24.4	23.8	26.2	35.1	37.9	136.5	641.5
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	133.5	68.9	58.9	57.9	38.4	24.4	23.8	26.2	35.1	37.9	136.5	641.5
Initial Spares	2.3	3.6	5.3	7.2	4.4	2.1	3.2	0.7	3.9	2.8	2.5	38.0
Total Proc Cost	135.8	72.5	64.2	65.1	42.8	26.5	27.0	26.9	39.0	40.7	139.0	679.5
Flyaway U/C	3.0	2.2	1.9	2.2	3.0	7.2	7.3	7.8	4.1	3.9	2.7	2.8
Wpn Sys Proc U/C	3.9	2.5	2.2	2.4	3.5	8.1	7.9	8.7	4.4	4.2	3.0	3.3

DESCRIPTION: Sentinel AN/MPQ-64 consists of a radar-based sensor with its prime mover/power, identification friend or foe (IFF), and FAAD Command, Control, and Intelligence (C2I) interfaces. The sensor is an advanced three dimensional battlefield X-Band air defense phased-array radar with an instrumented range of 40 km. The Sentinel is capable of operating day or night, in adverse weather conditions, in the battlefield environments of dust, smoke, aerosols, and enemy countermeasures. It provides 360 degree azimuth coverage for acquisition tracking. The Sentinel contributes to the digital battlefield by automatically detecting, classifying, identifying, and reporting targets (cruise missiles, unmanned aerial vehicle, rotary wing and fixed wing aircraft). Targets can be hovering to fast moving, as well as from nap of the earth to the maximum engagement altitude of Short Range Air Defense (SHORAD) weapons. Very accurate and quick reacting, Sentinel acquires targets sufficiently forward of the Forward Line of Troops to improve SHORAD weapons reaction time and allow engagement at optimum ranges. The Sentinel integrated IFF reduces the potential for fratricide of Army Aviation and Air Force aircraft. Highly mobile and reliable, the Sentinel Anti-Radiation Missile and Electronic Countermeasures resistant performance supports Army Corps and Divisional Air Defense operations across the full spectrum of conflict.

JUSTIFICATION: FY 00 and FY 01 funds provide production hardware for two National Guard units (2-174 ADA and 2-263 ADA).

Exhibit P-5, Weapon OPA Cost Analysis		Appropriation/ Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment			P-1 Line Item Nomenclature: SENTINEL (FAAD GBS) (WK5053)			Weapon System Type:			Date: February 1999		
OPA Cost Elements	ID CD	FY 98			FY 99			FY 00			FY 01		
		TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000
HARDWARE SENTINEL SYSTEMS		45012	27	1667	45576	24	1899	29385	11	2671	18197	3	6066
TRAINERS/TRAINING		855			687			487			389		
ENGINEERING CHANGE ORDERS		3483			950			188			29		
SYSTEM TEST & EVALUATION		136											
INTERIM CONTRACTOR SUPPORT		924			2330			1715					
ENGINEERING SUPPORT													
LABOR		1388			1297			1451			1480		
SIMULATIONS		710			471			446			455		
CONTRACTOR		2138			1782			1234			279		
FIELDING		605			1537			783			800		
SYSTEM SOFTWARE CHANGES		894			655			638			650		
PROGRAM MGT/ADMIN													
LABOR IN-HOUSE		1048			1039			1018			1031		
LABOR CONTRACTS		1665			1553			1034			1052		
Subtotal - PROGRAM MGT/ADMIN		2713			2592			2052			2083		
TOTAL		58858			57877			38379			24362		

Exhibit P-5a, Budget Procurement History and Planning

Date: February 1999

Appropriation / Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment		Weapon System Type:			P-1 Line Item Nomenclature: SENTINEL (FAAD GBS) (WK5053)					
WBS Cost Elements: Fiscal Years	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY Each	Unit Cost \$000	Specs Avail Now?	Date Revsn Avail	RFP Issue Date
HARDWARE SENTINEL SYSTEMS										
FY 98	Raytheon Co, Forest, MS	C/Option	AMCOM	Feb-98	May-99	27	1667	Yes		
FY 99	Raytheon Co, Forest, MS	SS/FP	AMCOM	Feb-99	May-00	24	1899	Yes		Jul-98
FY 00	Raytheon Co, Forest, MS	SS/FP	AMCOM	Feb-00	May-01	11	2671	Yes		
FY 01	Raytheon Co, Forest, MS	SS/FP	AMCOM	Feb-01	May-02	3	6066	Yes		

REMARKS:

FY 00 / 01 BUDGET PRODUCTION SCHEDULE

P-1 Item Nomenclature: SENTINEL (FAAD GBS) (WK5053)

Date: February 1999

COST ELEMENTS	MFR	FY	SERV	PROC QTY Each	ACCEP. PRIOR TO 1 OCT	BAL DUE AS OF 1 OCT	Fiscal Year 00												Fiscal Year 01												LATE R
							Calendar Year 00						Calendar Year 01						Calendar Year 01												
							OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	
SENTINEL SYSTEMS				62	62																										
	1	Prior to 98																													
	1	FY 98	A	27	11	16	2	3	2	2	2	3	2																		
	1	FY 99	A	24	0	24								2	2	2	2	2	2	2	2	2	2	2	2						
	1	FY 00	A	11	0	11																	1	1	1	1	1	6			
	1	FY 01	A	3	0	3															A						3				
	1	FY 02	A	3	0	3																					3				
	1	FY 03	A	3	0	3																					3				
	1	FY 04	A	8	0	8																					8				
	1	FY 05	A	9	0	9																					9				

MFR	NAME / LOCATION	PRODUCTION RATES			REACHED D +	MFR Number	ADMIN LEAD TIME		MFR After 1 Oct.	TOTAL After 1 Oct.	REMARKS
		MIN.	1-8-5	MAX.			Prior 1 Oct.	After 1 Oct.			
	Raytheon Company, Forest, MS	1	3	4		1	INITIAL 98	5	4	15	19
							REORDER 99	5	4	15	19
							INITIAL				
							REORDER				
							INITIAL				
							REORDER				
							INITIAL				
							REORDER				
							INITIAL				
							REORDER				

FY 00 / 01 BUDGET PRODUCTION SCHEDULE							P-1 Item Nomenclature: SENTINEL (FAAD GBS) (WK5053)													Date: February 1999														
COST ELEMENTS	M F R	FY	S E R V	PROC QTY Each	ACCEP. PRIOR TO 1 OCT	BAL DUE AS OF 1 OCT	Fiscal Year 02												Fiscal Year 03												L A T E R			
							Calendar Year 02						Calendar Year 03						Calendar Year 03															
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P				
SENTINEL SYSTEMS							Prior to 98		62	62																								
1		FY 98	A	27	27																													
1		FY 99	A	24	24																													
1		FY 00	A	11	5	6	1	1			1	1	1	1																				
1		FY 01	A	3	0	3						1	1	1																				
1		FY 02	A	3	0	3				A																								
1		FY 03	A	3	0	3																			A									
1		FY 04	A	8	0	8																												
1		FY 05	A	9	0	9																												

M F R	NAME / LOCATION	PRODUCTION RATES			REACHED D +	MFR Number	ADMIN LEAD TIME		MFR After 1 Oct.	TOTAL After 1 Oct.	REMARKS		
		MIN.	1-8-5	MAX.			Prior 1 Oct.	After 1 Oct.					
	Raytheon Company, Forest, MS	1	3	4		1	INITIAL	98	3	4	15	19	Starting in FY01, the production line for Sentinel systems slows to a rate that is below the economical order quantity of 1 per month. However, in an attempt to keep the production line active, work on Sentinel modifications will be performed during that time.
						REORDER	99	5	4	15	19		
						INITIAL							
						REORDER							
						INITIAL							
						REORDER							
						INITIAL							
						REORDER							

FY 00 / 01 BUDGET PRODUCTION SCHEDULE						P-1 Item Nomenclature: SENTINEL (FAAD GBS) (WK5053)												Date: February 1999													
COST ELEMENTS	M F R	FY	S E R V	PROC QTY Each	ACCEP. PRIOR TO 1 OCT	BAL DUE AS OF 1 OCT	Fiscal Year 04												Fiscal Year 05												L A T E R
							Calendar Year 04						Calendar Year 05						Calendar Year 05												
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	
SENTINEL SYSTEMS		Prior to 98		62	62																										
	1	FY 98	A	27	27																										
	1	FY 99	A	24	24																										
	1	FY 00	A	11	11																										
	1	FY 01	A	3	3																										
	1	FY 02	A	3	3																										
	1	FY 03	A	3	0	3							1	1	1																
	1	FY 04	A	8	0	8				A																1	1	1	5		
	1	FY 05	A	9	0	9													A										9		
						O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P		
M F R	PRODUCTION RATES			REACHED		MFR Number	ADMIN LEAD TIME				MFR	TOTAL	REMARKS																		
	NAME / LOCATION	MIN.	1-8-5	MAX.	D +		Prior 1 Oct.		After 1 Oct.		After 1 Oct.	After 1 Oct.																			
	Raytheon Company, Forest, MS	1	3	4		1	INITIAL	98	3	4	15	19	Starting in FY01, the production line for Sentinel systems slows to a rate that is below the economical order quantity of 1 per month. However, in an attempt to keep the production line active, work on Sentinel modifications will be performed during that time.																		
							REORDER	99	5	4	15	19																			
							INITIAL																								
							REORDER																								
							INITIAL																								
							REORDER																								
							INITIAL																								
							REORDER																								

FY 00 / 01 BUDGET PRODUCTION SCHEDULE

P-1 Item Nomenclature:

SENTINEL (FAAD GBS) (WK5053)

Date:

February 1999

COST ELEMENTS	MFR	FY	SERV	PROC QTY Each	ACCEP. PRIOR TO 1 OCT	BAL DUE AS OF 1 OCT	Fiscal Year 06												Fiscal Year 07												LATER
							Calendar Year 06						Calendar Year 07																		
							OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR							
SENTINEL SYSTEMS		Prior to 98		62	62																										
	1	FY 98	A	27	27																										
	1	FY 99	A	24	24																										
	1	FY 00	A	11	11																										
	1	FY 01	A	3	3																										
	1	FY 02	A	3	3																										
	1	FY 03	A	3	3																										
	1	FY 04	A	8	3	5	1	1		1	1				1																
	1	FY 05	A	9	0	9									1		1	1	1	1	1	1									

MFR	NAME / LOCATION	PRODUCTION RATES			REACHED D+	MFR Number	ADMIN LEAD TIME		MFR After 1 Oct.	TOTAL After 1 Oct.	REMARKS	
		MIN.	1-8-5	MAX.			Prior 1 Oct.	After 1 Oct.				
	Raytheon Company, Forest, MS	1	3	4		1	INITIAL	5	4	15	19	Starting in FY01, the production line for Sentinel systems slows to a rate that is below the economical order quantity of 1 per month. However, in an attempt to keep the production line active, work on Sentinel modifications will be performed during that time.
							REORDER	5	4	15	19	
							INITIAL					
							REORDER					
							INITIAL					
							REORDER					
							INITIAL					
							REORDER					

Exhibit P-40, Budget Item Justification Sheet

Date: February 1999

Appropriation / Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment
 P-1 Item Nomenclature: SENTINEL MODS (WK5057)

Program Elements for Code B Items: Code: Other Related Program Elements:

	Prior Years	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	To Complete	Total Prog
Proc Qty												
Gross Cost	0.0	0.0	0.0	0.0	0.0	7.1	9.5	20.1	24.7	26.3	26.5	114.2
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	0.0	0.0	0.0	0.0	0.0	7.1	9.5	20.1	24.7	26.3	26.5	114.2
Initial Spares												
Total Proc Cost	0.0	0.0	0.0	0.0	0.0	7.1	9.5	20.1	24.7	26.3	26.5	114.2
Flyaway U/C												
Wpn Sys Proc U/C												

DESCRIPTION: Sentinel consists of a radar-based sensor system with its prime mover/power, identification friend or foe, and FAAD Command, Control, and Intelligence (C2I) interfaces. Sentinel Modernization Program provides Sentinel several new capabilities: 1) increased range against small and advanced target, 2) performs target recognition, and 3) passively acquires/classifies targets.

Sentinel Modernization Program is a material enhancement of the Sentinel system. The system provides forward area "radar protection" for maneuver forces and critical assets. The data acquired and processed by the system (Sentinel Modernization Program and FAAD C2I) provides the commander an integrated battlefield picture and cueing/target identification information for Short Range Air Defense (SHORAD) assets. Modernization Program will enable Sentinel to cue SHORAD weapons against advanced targets, thereby increasing engagements of advanced cruise missiles and unmanned aerial vehicles significantly.

JUSTIFICATION: FY 01 funds provide for procurement of 23 transmitter retrofit kits.

Exhibit P-40M Budget Item Justification Sheet

Date
February 1999

Appropriation / Budget Activity/Serial No. OTHER PROCUREMENT / 2 / Communications and Electronics Equipment	P-1 Item Nomenclature SENTINEL MODS (WK5057)
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Program Elements for Code B Items	Code	Other Related Program Elements
-----------------------------------	------	--------------------------------

Description		Fiscal Years									
OSIP NO.	Classification	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	TC	Total
Acquisition Range Improvements											
111-11	Operational	0.0	0.0	0.0	7.1	9.5	14.3	19.1	20.6	19.5	90.0
Improved Target Classification											
111-12	Operational	0.0	0.0	0.0	0.0	0.0	0.4	0.0	0.0	0.0	0.4
Adjunct Sensor											
111-13	Operational	0.0	0.0	0.0	0.0	0.0	5.4	5.6	5.7	7.0	23.8
Totals		0.0	0.0	0.0	7.1	9.5	20.1	24.7	26.3	26.5	114.1

INDIVIDUAL MODIFICATION

Date

February 1999

MODIFICATION TITLE: Acquisition Range Improvements 111-11

MODELS OF SYSTEMS AFFECTED: AN/MPQ-64

DESCRIPTION / JUSTIFICATION:

Sentinel Modernization Program funds system improvements that increase acquisition range against smaller, more lethal and more advanced targets. Funds provide Sentinels a redesigned Power Amplifier Module, enhanced waveforms (with hardware modifications), a low altitude search raster and a 20 RPM rotation rate. These improvements are essential to increase power, duty cycle, bandwidth and stability in order to increase acquisition range against smaller, advanced targets. Without these improvements, maneuver forces and critical assets are at risk if confronting cruise missile or UAV aggressors.

DEVELOPMENT STATUS / MAJOR DEVELOPMENT MILESTONES:

Acquisition Range Improvements	Planned	Accomplished
Transmitter Contract Award	2Q 01	
First Kit Applied	1Q 03	
Waveforms Contract Award	1Q 02	
First Kit Applied	1Q 03	

Note: Transmitter/Waveform kits are being coordinated so that both kits are installed simultaneously to minimize trips to depot for retrofits.

Installation Schedule:

Pr Yr	FY 1999				FY 2000				FY 2001				FY 2002				FY 2003				
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	
Totals																	2			6	6
Inputs																	2			6	6
Outputs																	2			6	6

	FY 2004				FY 2005				FY 2006				FY 2007				To Complete	Totals
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4		
Inputs	6	6	6	2	6	6	6	6	6	6	6	6	6	6	6	6	21	127
Outputs	6	6	6	2	6	6	6	6	6	6	6	6	6	6	6	6	21	127

METHOD OF IMPLEMENTATION: Contractor's Facility **ADMINISTRATIVE LEADTIME:** **PRODUCTION LEADTIME:** (Trans / Wave) 16/12 Months
Contract Dates: FY 1999 FY 2000 FY 2001 2Q 01
Delivery Date: FY 1999 FY 2000 FY 2001

INDIVIDUAL MODIFICATION

Date

February 1999

MODIFICATION TITLE (Cont): Acquisition Range Improvements 111-11

FINANCIAL PLAN: (\$ in Millions)

	FY 1998 and Prior		FY 1999		FY 2000		FY 2001		FY 2002		FY 2003		FY 2004		FY 2005		TC		TOTAL			
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$		
RDT&E			2.8		5.1		6.4		2.1												16.4	
PROCUREMENT																						
Kit Quantity																						
Installation Kits																						
Installation Kits, Nonrecurring																						
Equipment							23	6.0	28	8.1	43	12.2	55	16.4	58	17.7	44	16.4	251	76.7		
Transmitter							23	6.0	14	3.8	21	5.6	27	7.3	29	8.0	10	2.8	124	33.5		
Waveform									14	4.3	22	6.6	28	9.1	29	9.7	34	13.5	127	43.2		
Equipment, Nonrecurring								0.3		0.3		0.1		0.1		0.1					1.0	
Engineering Change Orders								0.2		0.3		0.1		0.2		0.1		0.1			1.1	
Data Changes to Equip Pubs								0.1		0.1		0.2		0.2		0.2		0.2			1.1	
Training Equipment																						
Training												0.2		0.3		0.4		0.4			1.3	
Support Equipment																						
Product Management								0.5		0.7		1.4		1.8		1.9		1.9			8.3	
Interim Contractor Support																						
Installation of Hardware																						
FY 1998 & Prior Eqpt -- Kits																						
FY 1999 Eqpt -- Kits																						
FY 2000 Eqpt -- Kits																						
FY 2001 Eqpt -- Kits																						
FY 2002 Eqpt -- kits												14	0.0								14	0.0
FY 2003 Eqpt -- kits														20	0.0	2	0.0				22	0.1
FY 2004 Eqpt -- kits																28	0.1				28	0.1
FY 2005 Eqpt -- kits																		29	0.2		29	0.2
TC Equip-Kits																		34	0.2		34	0.2
Total Installment											14	0.0	20	0.0	30	0.1	63	0.4		127	0.6	
Total Procurement Cost								7.1		9.5		14.3		19.1		20.6		19.5			90.0	

INDIVIDUAL MODIFICATION

Date February 1999

MODIFICATION TITLE: Improved Target Classification 111-12

MODELS OF SYSTEMS AFFECTED: AN/MPQ-64

DESCRIPTION / JUSTIFICATION:

Sentinel Modernization funds target classification software improvements that provide the capability for high fidelity and a high degree of certainty target classification and recognition. Funds provide existing and future systems with hostile aircraft identification (HAIDE), high range resolution waveform (HRR), and corresponding FAAD C2 upgraded target classification reporting. These improvements are essential in order to increase target recognition and classification capabilities. Without these improvements, maneuver forces and critical assets are at risk if confronting cruise missile or UAV aggressors.

DEVELOPMENT STATUS / MAJOR DEVELOPMENT MILESTONES:

	Planned	Accomplished
Improved Target Classification		
Planned Contract Award	2Q 03	
Software Fix Implemented	3Q 04	

Installation Schedule:

Pr Yr	FY 1999				FY 2000				FY 2001				FY 2002				FY 2003			
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Inputs																				
Outputs																				
	FY 2004				FY 2005				FY 2006				FY 2007				To	Totals		
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	Complete			
Inputs				133														133		
Outputs				133														133		

METHOD OF IMPLEMENTATION: Depot Field Team **ADMINISTRATIVE LEADTIME:** **PRODUCTION LEADTIME:** 18 Months
Contract Dates: FY 1999 FY 2000 FY 2001
Delivery Date: FY 1999 FY 2000 FY 2001

INDIVIDUAL MODIFICATION

Date February 1999

MODIFICATION TITLE (Cont): Improved Target Classification 111-12

FINANCIAL PLAN: (\$ in Millions)

	FY 1998 and Prior		FY 1999		FY 2000		FY 2001		FY 2002		FY 2003		FY 2004		FY 2005		TC		TOTAL		
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	
RDT&E							2.1		1.9											4.0	
PROCUREMENT																					
Kit Quantity																					
Installation Kits																					
Installation Kits, Nonrecurring																					
Equipment											133	0.3							133	0.3	
Equipment, Nonrecurring																					
Engineering Change Orders												0.0									0.0
Data																					
Training Equipment																					
Support Equipment																					
Product Management												0.0									0.0
Interim Contractor Support																					
Installation of Hardware																					
FY 1998 & Prior Eqpt -- Kits																					
FY 1999 Eqpt -- Kits																					
FY 2000 Eqpt -- Kits																					
FY 2001 Eqpt -- Kits																					
FY 2002 Eqpt -- kits																					
FY 2003 Eqpt -- kits														133						133	
FY 2004 Eqpt -- kits																					
FY 2005 Eqpt -- kits																					
TC Equip-Kits																					
Total Installment													133							133	
Total Procurement Cost												0.4									0.4

INDIVIDUAL MODIFICATION

Date February 1999

MODIFICATION TITLE: Adjunct Sensor

MODELS OF SYSTEMS AFFECTED: AN/MPQ-64

DESCRIPTION / JUSTIFICATION:

Sentinel Modernization funds provide the capability to passively detect, acquire, and track targets and denies the enemy valuable information on Sentinel location and disposition. Funds provide a passive sensor, that is integrated with the radar and is dual mode capable. This improvement is essential in order to have a passive acquisition capability. Without this improvement, Sentinel assets, maneuver forces and critical assets could be unnecessarily jeopardized or limited in use based on use of current active mode. These funds allow for fielding of the adjunct sensor capability to Force Package units.

DEVELOPMENT STATUS / MAJOR DEVELOPMENT MILESTONES:

	Planned	Accomplished
Adjunct Sensor		
Planned Contract Award	3Q 03	
First Sensor Applied	3Q 05	

Installation Schedule:

Pr Yr	FY 1999				FY 2000				FY 2001				FY 2002				FY 2003			
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Totals																				
Inputs																				
Outputs																				

	FY 2004				FY 2005				FY 2006				FY 2007				To Complete	Totals
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4		
Inputs							6			6		6		6			14	38
Outputs							6			6		6		6			14	38

METHOD OF IMPLEMENTATION: Depot Field Team **ADMINISTRATIVE LEADTIME:** **PRODUCTION LEADTIME:** 24 Months
Contract Dates: FY 1999 FY 2000 FY 2001
Delivery Date: FY 1999 FY 2000 FY 2001

INDIVIDUAL MODIFICATION

Date

February 1999

MODIFICATION TITLE (Cont): Adjunct Sensor 111-13

FINANCIAL PLAN: (\$ in Millions)

	FY 1998 and Prior		FY 1999		FY 2000		FY 2001		FY 2002		FY 2003		FY 2004		FY 2005		TC		TOTAL		
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	
RDT&E			4.0						6.0												10.0
PROCUREMENT																					
Kit Quantity																					
Installation Kits																					
Installation Kits, Nonrecurring																					
Equipment											9	5.3	9	5.4	9	5.5	11	6.9	38	23.2	
Equipment, Nonrecurring												0.0		0.1		0.1				0.2	
Engineering Change Orders												0.1		0.1		0.0				0.2	
Data														0.1		0.1				0.2	
Training Equipment																					
Support Equipment																					
Product Management																					
Interim Contractor Support																					
Installation of Hardware																					
FY 1998 & Prior Eqpt -- Kits																					
FY 1999 Eqpt -- Kits																					
FY 2000 Eqpt -- Kits																					
FY 2001 Eqpt -- Kits																					
FY 2002 Eqpt -- kits																					
FY 2003 Eqpt -- kits															6		3			9	
FY 2004 Eqpt -- kits																	9			9	
FY 2005 Eqpt -- kits																	9			9	
TC Equip-Kits																	11			11	
Total Installment															6		32			38	
Total Procurement Cost											5.4	5.6		5.7		7.0				23.8	

Exhibit P-40, Budget Item Justification Sheet

Date: February 1999

Appropriation / Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment
 P-1 Item Nomenclature: TARGET LOCATION OBSERVATION SYSTEM (K38400)

Program Elements for Code B Items: Code: Other Related Program Elements:

	Prior Years	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	To Complete	Total Prog
Proc Qty	249											249
Gross Cost	18.6	2.3	5.9	11.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	38.6
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	18.6	2.3	5.9	11.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	38.6
Initial Spares												
Total Proc Cost	18.6	2.3	5.9	11.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	38.6
Flyaway U/C	0.060											0.046
Wpn Sys Proc U/C	0.076											0.050

DESCRIPTION: The K38400, AN/PLQ-8 Target Location Observation System (TLOS) is an active or passive, day or night sight. It is a target acquisition system designed to detect threat Optical and Electro-Optical Systems. The TLOS can be used as a covert illuminator and fire direction pointer.

JUSTIFICATION: There are no FY 2000 or FY 2001 funds.

Exhibit P-5, Weapon OPA Cost Analysis		Appropriation/ Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment			P-1 Line Item Nomenclature: TARGET LOCATION OBSERVATION SYSTEM (K38400)			Weapon System Type:			Date: February 1999			
OPA Cost Elements		ID	FY 98			FY 99			FY 00			FY 01		
		CD	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
			\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000
AN/PLQ-8 (K38400) TLOS														
Government Engineering Support			1272			322								
Program Management Support			266			114								
Fielding			159			391								
Contractor Engineering Support			512			181								
Engineering Change Orders			31											
Data/Tech Pubs			99											
Interim Contractor Support			2499			797								
Testing			130			50								
Enhanced TLOS (ETLOS) Test Units/Closeout			876											
ETLOS Reprogramming Action Required *						9900								
TOTAL			5844			11755								
* The Enhanced TLOS (ETLOS) version was cancelled in FY98. The \$9.9m in FY99 will be used to procure DCSOPS/USAIC higher priority night vision devices.														

Exhibit P-40, Budget Item Justification Sheet

Date: February 1999

Appropriation / Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment
 P-1 Item Nomenclature: NIGHT VISION DEVICES (KA3500)

Program Elements for Code B Items: Code: Other Related Program Elements:

	Prior Years	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	To Complete	Total Prog
Proc Qty												
Gross Cost	1391.1	112.0	58.8	43.3	20.9	28.9	29.9	29.1	56.9	102.7	Continuing	Continuing
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	1280.4	112.0	58.8	43.3	20.9	28.9	29.9	29.1	56.9	102.7	Continuing	Continuing
Initial Spares	5.2	2.7	0.7	5.0	2.9	2.9	2.9	3.0	3.5	3.4	Continuing	Continuing
Total Proc Cost	1285.6	114.7	59.5	48.2	23.8	31.8	32.8	32.1	60.4	106.1	Continuing	Continuing
Flyaway U/C												
Wpn Sys Proc U/C												

DESCRIPTION: Night Vision Devices (KA3500) is a summary budget line. There are five subsidiary lines which are: K36400 Night Vision, AN/PVS-7/14 AID; B53800 AN/PVS-6 Mini Eyesafe Laser Infrared Observation System (MELIOS); K35000 AN/PAQ-4 Infrared Aiming Light (IAL); K31300 AN/VAS-5 DVE; K31100 AN/PED-1 Lightweight Laser Designator/Rangefinder (LLDR) (1): The AN/PVS-7 is a lightweight, night vision goggle consisting of a monocular objective lens assembly, one state-of-the-art Third Generation Image Intensifier tube, and two eyepiece lens assemblies integrated into a housing which is affixed to the user's head or helmet. The AN/PVS-14 Monocular night vision device is a variant of the AN/PVS-7 in that it has only a single lens assembly. The AN/PVS-7/14 is used by individual soldiers at night to perform Combat, Combat Support, and Combat Service Support operations. (2) The AN/PVS-6 MELIOS is a hand-held, eyesafe laser rangefinder with an integrated compass and vertical angle measurement capability. (3) The AN/PAQ-4 IAL is a lightweight, weapon mounted and boresighted aiming light. The aiming light output is visible only when used with a night vision goggle, such as the AN/PVS-7. (4) The K31300 AN/VAS-5 DVE is an uncooled thermal imaging system developed for use on combat and tactical wheeled vehicles. (5) The K31100 AN/PED-1 Lightweight Laser Designator/Rangefinder (LLDR) is a modular system designed for day/night all weather target acquisition, precise location, and designation for engagement by a variety of munitions. Through FY98, this roll line also includes K22900 AN/PAS-13 Thermal Weapon Sight (TWS), K38400 AN/PLQ-8 Target Location and Observation System (TLOS), K38300 Long Range Advanced Scout Surveillance System (LRAS3), and K30800 AN/PVH-1&2 Lightweight Video Reconnaissance System (LVRS).

JUSTIFICATION: The "Own the Night" initiative, one of the Chief of Staff of the Army's top five priorities, includes the AN/PVS-7/14, the AN/PED-1 LLDR and the AN/VAS-5 DVE. The FY 2000 and FY 2001 funds will procure AN/PVS-7/14, AN/PED-1 and AN/VAS-5 systems with the latest technology for fielding to Special Operations Forces (75th Rangers, 82nd Airborne, 101st Air Assault, 10th Mountain, 2nd and 25th Infantry, and Scout Battalions).

Exhibit P-5, Weapon OPA Cost Analysis		Appropriation/ Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment			P-1 Line Item Nomenclature: NIGHT VISION DEVICES (KA3500)			Weapon System Type:			Date: February 1999			
OPA Cost Elements		ID	FY 98			FY 99			FY 00			FY 01		
		CD	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
			\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000
NIGHT VISION, AN/PVS-7 AID			37351	8705		37532	7194		19017	4550		26953	7321	
INFRARED AIMING LIGHT, AN/PAQ-4/PEQ-2			16398	14780		5984	5000		1960	1500	1			
NIGHT VISION LIGHTWEIGHT LASER MARKER/R									6262	14		7145	33	
NIGHT VISION DRIVER'S VISION ENHANCER												1957	102	
NIGHT VISION, AN/PVS-6 MELIOS			5004	250										
TOTAL			58753			43516			27239			36055		

* Unit costs for each item are contained on their individual P5 sheets to follow.

Exhibit P-40, Budget Item Justification Sheet

Date: February 1999

Appropriation / Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment
 P-1 Item Nomenclature: NIGHT VISION, AN/PVS-7 AID (K36400)

Program Elements for Code B Items: Code: Other Related Program Elements:

	Prior Years	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	To Complete	Total Prog
Proc Qty	109421	30179	8705	7194	7948	7441	7740	7524	8901	11771	Continuing	Continuing
Gross Cost	699.7	83.3	37.4	37.5	19.0	27.0	28.0	27.2	32.1	42.7	Continuing	Continuing
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	699.7	83.3	37.4	37.5	19.0	27.0	28.0	27.2	32.1	42.7	Continuing	Continuing
Initial Spares												
Total Proc Cost	699.7	83.3	37.4	37.5	19.0	27.0	28.0	27.2	32.1	42.7	Continuing	Continuing
Flyaway U/C	0.005	0.003	0.004	0.003	0.003	0.003	0.003	0.003	0.003	0.003		
Wpn Sys Proc U/C	0.006	0.003	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004		

DESCRIPTION: K36400 Night Vision, AN/PVS-7 AID; The AN/PVS-7 is a lightweight, night vision goggle consisting of a monocular objective lens assembly, one state-of-the-art Third Generation Image Intensifier tube, and two eyepiece lens assemblies integrated into a housing which is affixed to the user's head or helmet. The AN/PVS-14 Monocular Night Vision Device (MNVD) is a variant of the AN/PVS-7 in that it has only a single eyepiece lens assembly. The AN/PVS-7/14 is used by individual soldiers at night to perform Combat, Combat Support, and Combat Service Support operations. The 25mm Third Generation Image Intensifier tube is a direct replacement for the second generation Image Intensifier tube.

JUSTIFICATION: The "Own the Night" initiative, one of the Chief of Staff of the Army's top five priorities, includes the AN/PVS-7/14. The FY 2000 and FY 2001 funds will procure AN/PVS-7/14 systems with the latest technology for fielding to Special Operations Forces (75th Rangers, 82nd Airborne, 101st Air Assault, 10th Mountain, 2nd and 25th Infantry, and Scout Battalions).

Exhibit P-5, Weapon OPA Cost Analysis		Appropriation/ Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment			P-1 Line Item Nomenclature: NIGHT VISION, AN/PVS-7 AID (K36400)			Weapon System Type:			Date: February 1999			
OPA Cost Elements		ID	FY 98			FY 99			FY 00			FY 01		
		CD	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
			\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000
AN/PVS-7 Night Vision Goggle		A	26172	8705	3	25885	7194	4	16262	4550	4	24031	7321	3
25MM GEN III Image Tubes			6000	1932	3	8000	2326	3						
Rail Grabbers			600	6376										
Government Engineering Support			907			794			674			553		
Project Management Admin			477			393			321			272		
Fielding			1757			1669			1137			1614		
Contractor Engineering Support			866			702			547			403		
ECO			539			27			17			23		
Data/Tech Pubs			33			42			39			37		
Testing						20			20			20		
TOTAL			37351			37532			19017			26953		
* Unit costs in FY99 and FY00 are consistent with FY98 and subsequent year prices. It appears to be greater because additional helmet mounts are being purchased in FY99 to retrofit previously purchased systems.														

Exhibit P-5a, Budget Procurement History and Planning

Date: February 1999

Appropriation / Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment		Weapon System Type:			P-1 Line Item Nomenclature: NIGHT VISION, AN/PVS-7 AID (K36400)					
WBS Cost Elements: Fiscal Years	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY Each	Unit Cost \$000	Specs Avail Now?	Date Revsn Avail	RFP Issue Date
AN/PVS-7 Night Vision Goggle										
FY 98	Litton, Tempe, AZ	C/FPM-2(1)	CECOM	Jun-98	Apr-99	5026	3	Yes		
FY 98	ITT, Roanoke, VA	C/FPM-2(1)	CECOM	Jun-98	Apr-99	3679	3			
FY 99	Litton, Tempe, AZ	C/FPM-2(2)	CECOM	Jan-99	Apr-00	4316	4			
FY 99	ITT, Roanoke, VA	C/FPM-2(2)	CECOM	Jan-99	Apr-00	2878	4			
FY 00	TBS	C/FP	CECOM	Jan-00	Apr-01	4550	4			
FY 01	TBS	C/FP	CECOM	Jan-01	Apr-02	7321	3			
25MM GEN III Image Tubes										
FY 98	Litton, Tempe, AZ	Option	CECOM	Jun-98	Apr-99	1358	3	Yes		
FY 98	ITT, Roanoke, VA	Option	CECOM	Jun-98	Apr-99	574	3			
FY 99	Litton, Tempe, AZ	Option	CECOM	Jan-99	Apr-00	1395	3			
FY 99	ITT, Roanoke, VA	Option	CECOM	Jan-99	Apr-00	931	3			

REMARKS:

FY 00 / FY 01 BUDGET PRODUCTION SCHEDULE							P-1 Item Nomenclature: NIGHT VISION, AN/PVS-7 AID (K36400)															Date: February 1999										
COST ELEMENTS	MFR	FY	SERV	PROC QTY Each	ACCEP. PRIOR TO 1 OCT	BAL DUE AS OF 1 OCT	Fiscal Year 98												Fiscal Year 99												L A T E R	
							Calendar Year 98						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		
AN/PVS-7 Night Vision Goggle		97 & Pr	A	180133	143651	36482	1025	1025	1025	1025	1018	2862	2870	2800	2829	2300	2300	2300	2113	2654	2648	2393	2393	300		141	157	289	15			
		97 & Pr	OTH	57508	30448	27060	1325	1286	1255	1295	1295	1295	1305	1355	1356	1306	1433	1533	2522	1256	752	1007	1007	1057	1059	917	700	513	231			
	1	FY 98	A	3679	0	3679									A										141	141	141	271	272	272	2441	
	2	FY 98	A	5026	0	5026									A										220	220	220	339	339	338	3350	
	1	FY 99	A	2878	0	2878																A									2878	
	2	FY 99	A	4316	0	4316																	A								4316	
	3	FY 00	A	4550	0	4550																									4550	
	3	FY 01	A	7321	0	7321																									7321	
25MM GEN III Image Tubes		97 & Pr	A	3874	2361	1513	302	302	302	303	304																					
		97 & Pr	OTH	1294	712	582	97	97	97	97	97																					
	4	FY 98	A	574	0	574									A											47	47	47	47	48	48	290
	5	FY 98	A	1358	0	1358									A											113	113	113	113	114	114	678
	4	FY 99	A	931	0	931																	A								931	
	5	FY99	A	1395	0	1395																	A								1395	
	4	FY 99	M	1303	0	1303																	A								1303	
	5	FY 99	M	1955	0	1955																	A								1955	
							OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP		
MFR	NAME / LOCATION				PRODUCTION RATES			REACHED	MFR Number	ADMIN LEAD TIME		MFR	TOTAL	REMARKS																		
					MIN.	1-8-5	MAX.	D +		Prior 1 Oct.	After 1 Oct.	After 1 Oct.	After 1 Oct.	OTH is Air Force, Nat'l Guard, Army Reserve USMC and Navy.																		
1	ITT, ROANOKE, VA				550	1600	3400		1	INITIAL		6	6	13	19																	
2	LITTON, TEMPE, AZ				400	1250	2500		2	REORDER	98	1	8	10	18																	
3	TBS				400	1250	2500		2	INITIAL		6	6	13	19																	
4	ITT, ROANOKE, VA (25MM TUBES)				125	500	1250		3	REORDER	98	1	8	10	18																	
5	LITTON, TEMPE, AZ (25MM TUBES)				100	250	500		3	INITIAL		6	3	15	18																	
									4	REORDER	00	1	3	15	18																	
									4	INITIAL		1	6	13	19																	
									4	REORDER	98	1	8	10	18																	
									5	INITIAL		1	6	13	19																	
									5	REORDER	98	1	8	10	18																	

Exhibit P-40, Budget Item Justification Sheet

Date: February 1999

Appropriation / Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment
 P-1 Item Nomenclature: INFRARED AIMING LIGHT, AN/PAQ-4 (K35000)

Program Elements for Code B Items: Code: Other Related Program Elements:

	Prior Years	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	To Complete	Total Prog
Proc Qty	17730	20847	4600	5000	1500							49677
Gross Cost	9.5	11.1	16.4	6.0	2.0	0.0	0.0	0.0	0.0	6.9	0.0	51.8
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	9.5	11.1	16.4	6.0	2.0	0.0	0.0	0.0	0.0	6.9	0.0	51.8
Initial Spares												
Total Proc Cost	9.5	11.1	16.4	6.0	2.0	0.0	0.0	0.0	0.0	6.9	0.0	51.8
Flyaway U/C	0.001	0.001	0.001	0.001	0.001					0.001		0.001
Wpn Sys Proc U/C	0.001	0.001	0.001	0.001	0.001					0.001		0.001

DESCRIPTION: K35000 AN/PAQ-4 Infrared Aiming Light (IAL); The AN/PAQ-4 IAL is a lightweight, weapon mounted and boresighted infrared aiming light. The aiming light output is visible only when used with a night vision goggle, such as the AN/PVS-7. This SSN also includes the AN/PEQ-2A Infrared Target Pointer/Infrared Aiming Light, a device originally developed for the U. S. Navy. The AN/PEQ-2A program is managed by the Army.

JUSTIFICATION: The FY 2000 funds will procure additional required AN/PEQ-2A aiming lights to fill critical fielding shortfalls.

Exhibit P-5, Weapon OPA Cost Analysis		Appropriation/ Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment			P-1 Line Item Nomenclature: INFRARED AIMING LIGHT, AN/PAQ-4 (K35000)			Weapon System Type:			Date: February 1999			
OPA Cost Elements		ID	FY 98			FY 99			FY 00			FY 01		
		CD	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
			\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000
AN/PEQ-2A Infrared Target Pointer/IAL			6398	5280	*	5984	5000	*	1960	1500	*			
AN/PAQ-4C Infrared Aiming Light (IAL)			2787	9500										
Brackets and Accessories			7213											
TOTAL			16398			5984			1960					
* No unit price displayed for FY98 AN/PAQ-4Cs due to rounding, as unit price is actually \$350.														

Exhibit P-5a, Budget Procurement History and Planning

Date:
February 1999

Appropriation / Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment		Weapon System Type:			P-1 Line Item Nomenclature: INFRARED AIMING LIGHT, AN/PAQ-4 (K35000)					
WBS Cost Elements: Fiscal Years	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY Each	Unit Cost \$000	Specs Avail Now?	Date Revsn Avail	RFP Issue Date
AN/PEQ-2A Infrared Target Pointer/IAL FY 98	Insight Technology, Nashua, NH	C/IDIQ	CECOM	Sep-98	Feb-99	5280	VAR	Yes		
FY99	Insight Technology, Nashua, NH	C/IDIQ	CECOM	Mar-99	Jan-00	5000	VAR			
FY00	Insight Technology, Nashua, NH	C/IDIQ	CECOM	Mar-00	Nov-00	1500	1			
AN/PAQ-4C Infrared Aiming Light (IAL) FY 98	Insight Technology, Nashua, NH	C/IDIQ	CECOM	Nov-98	Apr-99	9500		Yes		

REMARKS:

Exhibit P-40, Budget Item Justification Sheet

Date: February 1999

Appropriation / Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment
 P-1 Item Nomenclature: NIGHT VISION DRIVER'S VISION ENHANCER (D (K31300))

Program Elements for Code B Items: Code: Other Related Program Elements:

	Prior Years	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	To Complete	Total Prog
Proc Qty						104	108	110	269	396	Continuing	Continuing
Gross Cost	0.0	0.0	0.0	0.0	0.0	2.0	2.0	2.0	24.8	29.0	Continuing	Continuing
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	0.0	0.0	0.0	0.0	0.0	2.0	2.0	2.0	24.8	29.0	Continuing	Continuing
Initial Spares												
Total Proc Cost	0.0	0.0	0.0	0.0	0.0	2.0	2.0	2.0	24.8	29.0	Continuing	Continuing
Flyaway U/C												
Wpn Sys Proc U/C						0.019	0.019	0.018	0.019	0.019		

DESCRIPTION: K31300, AN/VAS-5 Driver's Vision Enhancer (DVE); The DVE is an uncooled thermal imaging system developed for use on combat and tactical wheeled vehicles. DVE facilitates fast paced "Own The Night" force projection operations by providing enhanced mobility during darkness and in degraded battlefield conditions (smoke, dust, fog).

JUSTIFICATION: The "Own The Night" initiative, one of the Chief of Staff of the Army's top five priorities, includes the AN/VAS-5 DVE. Funds in FY 2001 will be used to initiate procurement of DVE systems to be fielded on TOW and HMMWV vehicles in the 82nd Airborne Division.

Exhibit P-5, Weapon OPA Cost Analysis		Appropriation/ Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment			P-1 Line Item Nomenclature: NIGHT VISION DRIVER'S VISION ENHANCER (D (K31300))			Weapon System Type:			Date: February 1999			
OPA Cost Elements		ID	FY 98			FY 99			FY 00			FY 01		
		CD	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
			\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000
AN/VAS-5 Driver's Vision Enhancer (DVE)		A										1622	102	16
Government Engineering Support												103		
Project Management Admin												57		
Fielding														
Contractor Engineering Support												24		
ECO/ECP												12		
Data/Technical Pubs												10		
CLS												94		
Testing												35		
TOTAL												1957		

Exhibit P-5a, Budget Procurement History and Planning

Date: February 1999

Appropriation / Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment		Weapon System Type:			P-1 Line Item Nomenclature: NIGHT VISION DRIVER'S VISION ENHANCER (D (K31300))					
WBS Cost Elements: Fiscal Years	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY Each	Unit Cost \$000	Specs Avail Now?	Date Revsn Avail	RFP Issue Date
AN/VAS-5 Driver's Vision Enhancer (DVE) FY 01	TBS	C/FP	CECOM	Jan-01	Feb-02	102	16	Yes		

REMARKS:

FY 00 / FY 01 BUDGET PRODUCTION SCHEDULE							P-1 Item Nomenclature: NIGHT VISION DRIVER'S VISION ENHANCER (D (K31300))													Date: February 1999																	
COST ELEMENTS	MFR	FY	SERV	PROC QTY Each	ACCEP. PRIOR TO 1 OCT	BAL DUE AS OF 1 OCT	Fiscal Year 03													Fiscal Year 04													LATER				
							Calendar Year 03													Calendar Year 04																	
							OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP							
AN/VAS-5 DVE																																					
	1	FY 01	A	102	74	28	7	7	7	7																											
							OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP							
MFR	PRODUCTION RATES			REACHED	MFR Number	ADMIN LEAD TIME		MFR	TOTAL	REMARKS																											
	NAME / LOCATION	MIN.	1-8-5			MAX.	D +				Prior 1 Oct.	After 1 Oct.	After 1 Oct.	After 1 Oct.																							
1	TBS	5	15	50		1	INITIAL	01	1	4	13	17																									
							REORDER																														
							INITIAL																														
							REORDER																														
							INITIAL																														
							REORDER																														
							INITIAL																														
							REORDER																														
							INITIAL																														
							REORDER																														
							INITIAL																														
							REORDER																														

Exhibit P-40, Budget Item Justification Sheet

Date: February 1999

Appropriation / Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment
 P-1 Item Nomenclature: NIGHT VISION, AN/PVS-6 MELIOS (B53800)

Program Elements for Code B Items: Code: Other Related Program Elements:

	Prior Years	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	To Complete	Total Prog
Proc Qty	8005	464	250									8719
Gross Cost	76.5	10.0	5.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	91.5
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	76.5	10.0	5.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	91.5
Initial Spares												
Total Proc Cost	76.5	10.0	5.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	91.5
Flyaway U/C	0.010	0.018	0.018									0.010
Wpn Sys Proc U/C	0.010	0.022	0.020									0.011

DESCRIPTION: B53800 AN/PVS-6 Mini Eyesafe Laser Infrared Observation System (MELIOS). The AN/PVS-6 MELIOS is a hand-held, eyesafe laser rangefinder with an integrated compass and vertical angle measurement capability.

JUSTIFICATION: No FY 2000 or FY 2001 Funds.

Exhibit P-5, Weapon OPA Cost Analysis		Appropriation/ Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment			P-1 Line Item Nomenclature: NIGHT VISION, AN/PVS-6 MELIOS (B53800)			Weapon System Type:			Date: February 1999			
OPA Cost Elements		ID	FY 98			FY 99			FY 00			FY 01		
		CD	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
			\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000
AN/PVS-6 MELIOS		A	4020	250	16									
Ancillary Equipment for fielded MELIOS			984											
TOTAL			5004											

Exhibit P-5a, Budget Procurement History and Planning

Date:
February 1999

Appropriation / Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment		Weapon System Type:			P-1 Line Item Nomenclature: NIGHT VISION, AN/PVS-6 MELIOS (B53800)					
WBS Cost Elements: Fiscal Years	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY Each	Unit Cost \$000	Specs Avail Now?	Date Revsn Avail	RFP Issue Date
AN/PVS-6 MELIOS FY 98	LITTON LASER, APOPKA, FL	SS/FP	CECOM	Mar-99	Feb-00	250	16	Yes		

REMARKS:

Exhibit P-40, Budget Item Justification Sheet

Date: February 1999

Appropriation / Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment
 P-1 Item Nomenclature: LONG RANGE ADVANCED SCOUT SURVEILLANCE S (K38300)

Program Elements for Code B Items: 0604710A DL74
 Code: B
 Other Related Program Elements:

	Prior Years	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	To Complete	Total Prog
Proc Qty					66	89	91	103	106	101	Continue	Continue
Gross Cost	0.0	0.0	0.0	0.0	43.2	48.0	45.6	50.3	51.7	53.9	Continue	Continue
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	0.0	0.0	0.0	0.0	43.2	48.0	45.6	50.3	51.7	53.9	Continue	Continue
Initial Spares												
Total Proc Cost	0.0	0.0	0.0	0.0	43.2	48.0	45.6	50.3	51.7	53.9	Continue	Continue
Flyaway U/C					0.662	0.496	0.487	0.471	0.470	0.472	Continue	Continue
Wpn Sys Proc U/C					0.665	0.552	0.518	0.498	0.498	0.499	Continue	Continue

DESCRIPTION: The Long Range Advanced Scout Surveillance System (LRAS3) is a long range reconnaissance and surveillance system operable in both a stationary vehicle mounted configuration and in an autonomous dismounted configuration. The LRAS3 is a line-of-sight multi-sensor suite, which provides a real-time target detection, recognition, and identification capability to the scout 24 hours a day in all weather conditions. LRAS3 also determines far target location (FTL) coordinates for any target ranged to by the operator.

JUSTIFICATION: The Long Range Advanced Scout Surveillance System (LRAS3) program is one of the top priority systems of the US Armor School and Center and HQ TRADOC. Currently, US Army scouts do not have the necessary equipment to perform target acquisition and FTL functions "around the clock" and with sufficient performance capability to enable them to remain outside enemy engagement ranges. LRAS3 will utilize the Horizontal Technology Integration Second Generation FLIR (HTI SGF) thermal sensor, which will enable the scouts to function 24 hours a day in adverse weather and penetrate battlefield obscurants. LRAS3 will significantly increase the survivability of scout forces allowing them to continue their mission as the eyes of the commander in the battlefield. The FY 2000 and FY 2001 funds will initiate the procurement of LRAS3, with the first systems being fielded to the 1st Cavalry Division, part of the 1st Digitized Corps.

Exhibit P-5, Weapon OPA Cost Analysis		Appropriation/ Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment			P-1 Line Item Nomenclature: LONG RANGE ADVANCED SCOUT SURVEILLANCE S (K38300)			Weapon System Type:			Date: February 1999			
OPA Cost Elements		ID	FY 98			FY 99			FY 00			FY 01		
		CD	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
			\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000
K38300 LRAS3		B							39141	65	602	40013	87	460
Engineering Support									754			738		
Project Management Admin									251			246		
Engineering Change Orders									1612			1382		
Testing									915			362		
Fielding									550			715		
Interim Contractor Support												4532		
TOTAL									43223			47988		
Notes: Fielding includes: Initial Provisioning/ Consumable Spares, Training Equipment, New Equipment Training and Support.														

Exhibit P-5a, Budget Procurement History and Planning

Date:
February 1999

Appropriation / Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment		Weapon System Type:			P-1 Line Item Nomenclature: LONG RANGE ADVANCED SCOUT SURVEILLANCE S (K38300)					
WBS Cost Elements: Fiscal Years	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY Each	Unit Cost \$000	Specs Avail Now?	Date Revsn Avail	RFP Issue Date
K38300 LRAS3	To Be Selected	C/FP	CECOM	Dec-99	Feb-01	65	602	Yes	Jun 99	Aug-99
FY 00	To Be Selected	C/FP	CECOM	Dec-00	Feb-02	87	460			
FY 01										

REMARKS:

FY 00 / 01 BUDGET PRODUCTION SCHEDULE

P-1 Item Nomenclature:

LONG RANGE ADVANCED SCOUT SURVEILLANCE S (K38300)

Date:

February 1999

COST ELEMENTS	MFR	FY	SERV	PROC QTY Each	ACCEP. PRIOR TO 1 OCT	BAL DUE AS OF 1 OCT	Fiscal Year 00												Fiscal Year 01												L A T E R			
							Calendar Year 00						Calendar Year 01						Calendar Year 01															
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P				
K38300 LRAS3																																		
	1	FY 00	A	65	0	65		A																		2	4	5	6	6	6	6	6	24
	1	FY 01	A	87	0	87																		A									87	

MFR	NAME / LOCATION	PRODUCTION RATES			REACHED D +	MFR Number	ADMIN LEAD TIME		MFR After 1 Oct.	TOTAL After 1 Oct.	REMARKS		
		MIN.	1-8-5	MAX.			Prior 1 Oct.	After 1 Oct.					
1	To Be Selected	5	10	25		1	INITIAL	00	2	2	14	16	
							REORDER	01	1	2	14	16	
							INITIAL						
							REORDER						
							INITIAL						
							REORDER						
							INITIAL						
							REORDER						
							INITIAL						
							REORDER						

FY 00 / 01 BUDGET PRODUCTION SCHEDULE							P-1 Item Nomenclature: LONG RANGE ADVANCED SCOUT SURVEILLANCE S (K38300)													Date: February 1999										
COST ELEMENTS	MFR	FY	SERV	PROC QTY Each	ACCEP. PRIOR TO 1 OCT	BAL DUE AS OF 1 OCT	Fiscal Year 02												Fiscal Year 03						LATER					
							Calendar Year 02						Calendar Year 03																	
							OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR						
K38300 LRAS3																														
	1	FY 00	A	65	41	24	6	6	6	6																				
	1	FY 01	A	87	0	87					7	7	7	7	7	7	7	7	7	8	8	8								

MFR	NAME / LOCATION	PRODUCTION RATES			REACHED D +	MFR Number	ADMIN LEAD TIME		MFR After 1 Oct.	TOTAL After 1 Oct.	REMARKS	
		MIN.	1-8-5	MAX.			Prior 1 Oct.	After 1 Oct.				
1	To Be Selected	5	10	25		1	INITIAL	00	2	2	14	16
							REORDER	01	1	2	14	16
							INITIAL					
							REORDER					
							INITIAL					
							REORDER					
							INITIAL					
							REORDER					
							INITIAL					
							REORDER					

Exhibit P-40, Budget Item Justification Sheet

Date: February 1999

Appropriation / Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment
 P-1 Item Nomenclature: LTWT VIDEO RECON SYSTEM (LWVRS) (K30800)

Program Elements for Code B Items: Code: Other Related Program Elements:

	Prior Years	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	To Complete	Total Prog
Proc Qty	179	97	101	320	145	44	48	48	48	80	Continuing	Continuing
Gross Cost	4.5	2.7	4.8	8.3	3.4	1.2	1.3	1.4	1.4	2.7	Continuing	Continuing
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	4.5	2.7	4.8	8.3	3.4	1.2	1.3	1.4	1.4	2.7	Continuing	Continuing
Initial Spares												
Total Proc Cost	4.5	2.7	4.8	8.3	3.4	1.2	1.3	1.4	1.4	2.7	Continuing	Continuing
Flyaway U/C												
Wpn Sys Proc U/C												

DESCRIPTION: K30800, AN/PVH-1&2 Lightweight Video Reconnaissance System (LVRS) is a system designed to capture and transmit still video images through military radios. The images are captured with a portable AN/PVH-1 LVRS Out Station which transmits the captured image to the AN/PVH-2 LVRS Base Station for analysis and dissemination.

JUSTIFICATION: The "Own the Night" initiative, one of the Chief of Staff of the Army's top five priorities, includes the AN/PVH-1&2 LVRS. The LVRS provides the first day/night image transmission capability between ground scouts and their higher headquarters, facilitating rapid target identification and analysis of key structures/terrain and other data critical to mission planning/execution. The FY 2000 and FY 2001 funds will procure this LVRS capability for fielding to Light Forces (101st Air Assault, 10th Mountain, 2nd and 25th Infantry, and Scout Battalions).

Exhibit P-5, Weapon OPA Cost Analysis		Appropriation/ Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment			P-1 Line Item Nomenclature: LTWT VIDEO RECON SYSTEM (LWVRS) (K30800)			Weapon System Type:			Date: February 1999		
OPA Cost Elements	ID CD	FY 98			FY 99			FY 00			FY 01		
		TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000
AN/PVH-1&2 LVRS (Base & Out Stations)	A	2872	101	28	3454	156	22	2451	141	17	861	46	19
Out Station Upgrade (Non Recurring Costs)		1355											
ECO for Joint Tactical Architecture Upgrade *					598								
Out Station Upgrade Retrofits **					2996	164	18						
Government Engineering Support		327			455			203			175		
Project Management Support		22			45			27			29		
Fielding Costs					143			56			56		
Interim Contractor Support ***		181			270			202			86		
Testing					380			497					
TOTAL		4757			8341			3436			1207		
Notes: * ECO was to reduce size and weight of the out station, allow use of smaller battery and meet Y2K mandates. ** The recurring unit cost (\$18K) for upgrades, represents only the costs for the upgraded portion of an existing out station. *** OMA funded CLS is expected to start in FY01 and in the event the National Maintenance Contract is awarded to other than the prime vendor, the \$86K in FY01 will be required for non-warranty repairs.													

Exhibit P-5a, Budget Procurement History and Planning

Date:
February 1999

Appropriation / Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment				Weapon System Type:			P-1 Line Item Nomenclature: LTWT VIDEO RECON SYSTEM (LWVRS) (K30800)				
WBS Cost Elements: Fiscal Years	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY Each	Unit Cost \$000	Specs Avail Now?	Date Revsn Avail	RFP Issue Date	
AN/PVH-1&2 LVRS											
FY 98	Phototelesis, San Antonio, TX	Option	CECOM	May-98	Dec-98	101	28	Yes			
FY 99	Phototelesis, San Antonio, TX	Option	CECOM	Mar-99	Apr-00	156	22				
FY 00	To Be Selected	C/FPM-3(1)	CECOM	Mar-00	Jan-01	141	17				
FY 01	To Be Selected	C/FPM-3(2)	CECOM	Jan-01	Nov-01	46	19				

REMARKS:

FY 00 / 01 BUDGET PRODUCTION SCHEDULE							P-1 Item Nomenclature: LTWT VIDEO RECON SYSTEM (LWVRS) (K30800)													Date: February 1999											
COST ELEMENTS	MFR	FY	SERV	PROC QTY Each	ACCEP. PRIOR TO 1 OCT	BAL DUE AS OF 1 OCT	Fiscal Year 98												Fiscal Year 99												L A T E R
							Calendar Year 98						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	
AN/PVH-1&2 LVRS	1	97 & Pr	A	224	130	94				47	47																				
	1	FY 98	A	101	0	101									A													12	58		
	1	FY 99	A	156	0	156																		A					156		
	2	FY 00	A	141	0	141																							141		
	2	FY 01	A	46	0	46																							46		

MFR	NAME / LOCATION	PRODUCTION RATES			REACHED D +	MFR Number	ADMIN LEAD TIME		MFR After 1 Oct.	TOTAL After 1 Oct.	REMARKS
		MIN.	1-8-5	MAX.			Prior 1 Oct.	After 1 Oct.			
1	Phototelesis, San Antonio, TX		See Remarks			INITIAL	0	12	11	23	LVRS was awarded as an NDI system. Contractor's commercial production rate for the LVRS critical compontnes is significantly greater than the quantity required by the Army. A Min, Max and 1-8-5 rate is not relevant to Army quantities. There is no break in production as appears on the P-21 schedule. Deliveries represent both Out Station and Base Station.
						REORDER 98	1	7	7	14	
2	To Be Selected		See Remarks			INITIAL	6	5	10	15	
						REORDER 01	0	3	10	13	
						INITIAL					
						REORDER					
						INITIAL					
						REORDER					
						INITIAL					
						REORDER					

FY 00 / 01 BUDGET PRODUCTION SCHEDULE	P-1 Item Nomenclature: LTWT VIDEO RECON SYSTEM (LWVRS) (K30800)	Date: February 1999
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COST ELEMENTS	MFR	FY	SERV	PROC QTY Each	ACCEP. PRIOR TO 1 OCT	BAL DUE AS OF 1 OCT	Fiscal Year 00												Fiscal Year 01												LATER
							Calendar Year 00						Calendar Year 01						Calendar Year 01												
							OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	
AN/PVH-1&2 LVRS	1	97 & Pr	A	224	224																										
	1	FY 98	A	101	43	58					29	29																			
	1	FY 99	A	156	0	156							20	19				45	45		27										
	2	FY 00	A	141	0	141						A									18	45	44	34							
	2	FY 01	A	46	0	46															A						46				

MFR	NAME / LOCATION	PRODUCTION RATES			REACHED D +	MFR Number	ADMIN LEAD TIME		MFR After 1 Oct.	TOTAL After 1 Oct.	REMARKS
		MIN.	1-8-5	MAX.			Prior 1 Oct.	After 1 Oct.			
1	Phototelesis, San Antonio, TX		See Remarks		1	INITIAL	0	12	11	23	LVRS was awarded as an NDI system. Contractor's commercial production rate for the LVRS critical componnes is significantly greater than the quantity required by the Army. A Min, Max and 1-8-5 rate is not relevant to Army quantities. There is no break in production as appears on the P-21 schedule. Deliveries represent both Out Station and Base Station.
2	To Be Selected		See Remarks		2	INITIAL	00	6	5	10	
						REORDER	98	1	7	7	
						INITIAL	01	0	3	10	
						REORDER				13	
						INITIAL					
						REORDER					
						INITIAL					
						REORDER					
						INITIAL					

FY 00 / 01 BUDGET PRODUCTION SCHEDULE	P-1 Item Nomenclature: LTWT VIDEO RECON SYSTEM (LWVRS) (K30800)	Date: February 1999
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COST ELEMENTS	MFR	FY	SERV	PROC QTY Each	ACCEP. PRIOR TO 1 OCT	BAL DUE AS OF 1 OCT	Fiscal Year 02												Fiscal Year 03												L A T E R
							Calendar Year 02						Calendar Year 03						Calendar Year 03												
							O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	
C	O	E	A	E	A	P	A	U	U	U	E	C	O	E	A	E	A	P	A	U	U	U	E								
AN/PVH-1&2 LVRS	1	97 & Pr	A	224	224																										
	1	FY 98	A	101	101																										
	1	FY 99	A	156	156																										
	2	FY 00	A	141	141																										
	2	FY 01	A	46	0	46																									

MFR	NAME / LOCATION	PRODUCTION RATES			REACHED D +	MFR Number	ADMIN LEAD TIME		MFR After 1 Oct.	TOTAL After 1 Oct.	REMARKS
		MIN.	1-8-5	MAX.			Prior 1 Oct.	After 1 Oct.			
1	Phototelesis, San Antonio, TX		See Remarks			INITIAL	0	12	11	23	LVRS was awarded as an NDI system. Contractor's commercial production rate for the LVRS critical componnes is significantly greater than the quantity required by the Army. A Min, Max and 1-8-5 rate is not relevant to Army quantities. There is no break in production as appears on the P-21 schedule. Deliveries represent both Out Station and Base Station.
2	To Be Selected		See Remarks		2	INITIAL	6	5	10	15	
						REORDER	01	0	3	13	
						INITIAL					
						REORDER					
						INITIAL					
						REORDER					
						INITIAL					
						REORDER					
						INITIAL					

Exhibit P-40, Budget Item Justification Sheet

Date: February 1999

Appropriation / Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment
 P-1 Item Nomenclature: NIGHT VISION, THERMAL WPN SIGHT (K22900)

Program Elements for Code B Items: Code: Other Related Program Elements:

	Prior Years	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	To Complete	Total Prog
Proc Qty	1200	1650	1876	1522	1665	1818	1808	1903	1896	2011	CONTINUING	CONTINUING
Gross Cost	46.1	45.4	40.8	36.0	35.9	35.6	35.3	37.2	36.9	49.2	CONTINUING	CONTINUING
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	46.1	45.4	40.8	36.0	35.9	35.6	35.3	37.2	36.9	49.2	CONTINUING	CONTINUING
Initial Spares												
Total Proc Cost	46.1	45.4	40.8	36.0	35.9	35.6	35.3	37.2	36.9	49.2	CONTINUING	CONTINUING
Flyaway U/C	0.037	0.025	0.023	0.019	0.018	0.016	0.016	0.016	0.016	0.016		
Wpn Sys Proc U/C	0.038	0.026	0.024	0.024	0.022	0.020	0.020	0.020	0.020	0.020		

DESCRIPTION: K22900, AN/PAS-13 is a multi-purpose Thermal Weapon Sight designed to be mounted on all Infantry Individual and Crew Served Weapons. It is a GEN II Thermal Device which significantly improves dismounted Infantry operation capability by increasing range and enabling both day and night vision through smoke, fog, battlefield obscurants and in extremely low light levels such as under triple canopy jungle.

JUSTIFICATION: The "Own the Night" initiative, one of the Chief of Staff of the Army's top five priorities, includes the AN/PAS-13 TWS. The TWS is also a key component of Land Warrior, a designated digitized division/corps asset. The FY 2000 and FY 2001 funds will procure TWS systems for fielding to the Special Operations Forces (1, 3, 5th and 18th Corps Long Range Surveillance Companies, 1st, 2nd, 3rd, 4th and 25th Infantry, Scout Battalions).

Exhibit P-5, Weapon OPA Cost Analysis		Appropriation/ Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment			P-1 Line Item Nomenclature: NIGHT VISION, THERMAL WPN SIGHT (K22900)			Weapon System Type:			Date: February 1999			
OPA Cost Elements		ID	FY 98			FY 99			FY 00			FY 01		
		CD	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
			\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000
AN/PAS-13 Thermal Weapon Sight (TWS)		A	33633	1876	18	29004	1522	19	30480	1693	18	30078	1879	16
Borelights			1000	2500										
Government Engineering Support			1226			1317			1343			1367		
Project Management Admin			993			1093			1127			1156		
Fielding			1299			1821			1789			1775		
Contractor Engineering Support			230			300			441			489		
ECO			129			144			147			145		
Data/Tech Pubs			291			254			263			271		
Interim Contractor Support			1729			1784								
Testing			244			294			311			322		
TOTAL			40774			36011			35901			35603		
The increase in unit cost for FY99 results from a larger quantity of the more expensive heavy version of the TWS in that year.														

Exhibit P-5a, Budget Procurement History and Planning

Date:
February 1999

Appropriation / Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment		Weapon System Type:			P-1 Line Item Nomenclature: NIGHT VISION, THERMAL WPN SIGHT (K22900)					
WBS Cost Elements: Fiscal Years	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY Each	Unit Cost \$000	Specs Avail Now?	Date Revsn Avail	RFP Issue Date
AN/PAS-13 Thermal Weapon Sight (TWS)										
FY 98	Raytheon, Dallas, TX	C/FPM-3(1)	CECOM	Jun-98	Dec-99	1876	18	Yes		
FY 99	Raytheon, Dallas, TX	C/FPM-3(2)	CECOM	Mar-99	Aug-00	1522	19			
FY 00	Raytheon, Dallas, TX	C/FPM-3(3)	CECOM	Jan-00	Apr-01	1693	18			
FY 01	To Be Selected	C/FP	CECOM	Nov-01	Feb-02	1879	16			

REMARKS:

FY 00 / 01 BUDGET PRODUCTION SCHEDULE

P-1 Item Nomenclature:

NIGHT VISION, THERMAL WPN SIGHT (K22900)

Date:

February 1999

COST ELEMENTS	MFR	FY	SERV	PROC QTY Each	ACCEP. PRIOR TO 1 OCT	BAL DUE AS OF 1 OCT	Fiscal Year 00												Fiscal Year 01												LATER										
							Calendar Year 00												Calendar Year 01																						
							OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP											
AN/PAS-13 Thermal Wpn Sight (TWS)		97 & Pr	A	2850	2422	428	211	217																																	
	1	FY 98	A	1876	0	1876			140	200	225	250	250	250	250	250	61																								
	1	FY 99	A	1522	0	1522											152	200	200	200	200	200	195	175																	
	1	FY 00	A	1693	0	1693				A																											676				
	2	FY 01	A	1879	0	1879														A							170	170	170	169	169	169					1879				
	2	FY01	M	922	0	922														A																922					

MFR	NAME / LOCATION	PRODUCTION RATES			REACHED D +	MFR Number	ADMIN LEAD TIME		MFR After 1 Oct.	TOTAL After 1 Oct.	REMARKS		
		MIN.	1-8-5	MAX.			Prior 1 Oct.	After 1 Oct.					
1	Raytheon, Dallas, TX	150	250	400		1	INITIAL	98	4	8	18	26	The production rate is increased for this product starting in October 1999 based on the relocation of the production facility from La Grange, GA to a larger facility at Dallas, TX.
							REORDER	00	2	3	15	18	
2	To be selected	150	250	400		2	INITIAL	01	3	1	15	16	
							REORDER						
							INITIAL						
							REORDER						
							INITIAL						
							REORDER						
							INITIAL						
							REORDER						

FY 00 / 01 BUDGET PRODUCTION SCHEDULE							P-1 Item Nomenclature: NIGHT VISION, THERMAL WPN SIGHT (K22900)															Date: February 1999																			
COST ELEMENTS	M F R	FY	S E R V	PROC QTY Each	ACCEP. PRIOR TO 1 OCT	BAL DUE AS OF 1 OCT	Fiscal Year 02												Fiscal Year 03												L A T E R										
							Calendar Year 02						Calendar Year 03						Calendar Year 03																						
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P											
AN/PAS-13 Thermal Wpn Sight (TWS)		97 & Pr	A	2850	2850																																				
	1	FY 98	A	1876	1876																																				
	1	FY 99	A	1522	1522																																				
	1	FY 00	A	1693	1017	676	169	169	169	169																															
	2	FY 01	A	1879	0	1879					157	157	157	157	157	157	157	156	156	156	156	156																			
	2	FY01	M	922	0	922					77	77	77	77	77	77	77	77	77	77	77	76	76																		
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P											
M F R	NAME / LOCATION	PRODUCTION RATES			REACHED D +	MFR Number	ADMIN LEAD TIME		MFR After 1 Oct.	TOTAL After 1 Oct.	REMARKS																														
		MIN.	1-8-5	MAX.			Prior 1 Oct.	After 1 Oct.																																	
1	Raytheon, Dallas, TX	150	250	400		1	INITIAL	98	4	8	18	26																													
2	To be selected	150	250	400		2	REORDER	00	2	3	15	18																													
							INITIAL																																		
							REORDER																																		
							INITIAL																																		
							REORDER																																		
							INITIAL																																		
							REORDER																																		
							INITIAL																																		
							REORDER																																		

Exhibit P-40, Budget Item Justification Sheet

Date: February 1999

Appropriation / Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment
 P-1 Item Nomenclature: COMBAT IDENTIFICATION/AIMING LIGHT (CIDD (BA0515))

Program Elements for Code B Items: Code: Other Related Program Elements:

	Prior Years	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	To Complete	Total Prog
Proc Qty												
Gross Cost	0.0	0.0			9.5	11.1	16.6	13.6	16.2	19.8	Cont	86.8
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	0.0	0.0	0.0	0.0	9.5	11.1	16.6	13.6	16.2	19.8		86.8
Initial Spares					0.3	1.7	1.5	1.6	1.6	1.7		8.4
Total Proc Cost	0.0	0.0	0.0	0.0	9.8	12.8	18.1	15.2	17.8	21.5		95.2
Flyaway U/C					0.035	0.002	0.003	0.002	0.002	0.003		
Wpn Sys Proc U/C					0.035	0.002	0.003	0.002	0.002	0.003		

NARRATIVE: The Combat Identification System for the Dismounted Soldier (CIDDS) is a lightweight, laser-based, question and answer type system, used to positively identify friendly soldiers. The system includes a compact, eyesafe, diode laser interrogator; a laser detector assembly; an electronic processor unit; and an omnidirectional RF responder. The laser transmitter also includes a near infrared aiming laser pointer for aiming the soldier's weapon at night when using Night Vision Goggles and provides an embedded training capability that is interoperable with MILES/MILES 2000. The system will provide range of at least 1.1 kilometers under clear weather conditions and will exceed the soldier's target acquisition capability under degraded atmospheric conditions. It will have sufficient angular resolution to resolve individual targets, but does not require precise pointing accuracy for robust response. The system will also be directly interoperable with the integrated soldier-to-soldier combat ID functions to be embedded in the Land Warrior equipment suite.

JUSTIFICATION: The system will fulfill requirements stated in the Operational Requirements Document (ORD) for use by Army, Marine and Special Operations applications. As identified in the Joint Combat Identification Mission Need Statement (MNS), current combat identification capabilities suffer from numerous shortcomings when measured against the requirements and threats. FY00/FY01 funding is required to produce and initiate fielding to the 10th Mountain Division.

Exhibit P-5, Weapon OPA Cost Analysis		Appropriation/ Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment			P-1 Line Item Nomenclature: COMBAT IDENTIFICATION/AIMING LIGHT (CIDD (BA0515))			Weapon System Type:			Date: February 1999			
OPA Cost Elements		ID	FY 98			FY 99			FY 00			FY 01		
		CD	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
			\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000
1. Initial Production Facility									2131			876		
2. CIDDS									4542	1060	4	8654	2655	3
3. Project Management Admin									677			697		
4. System Test and Evaluation									1981					
5. Support														
Technical Data									43			48		
ECOs									112			145		
6. Fielding												678		
Total System Cost									9486			11098		

Exhibit P-5a, Budget Procurement History and Planning

Date: February 1999

Appropriation / Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment
 Weapon System Type: P-1 Line Item Nomenclature: COMBAT IDENTIFICATION/AIMING LIGHT (CIDD (BA0515))

WBS Cost Elements: Fiscal Years	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY Each	Unit Cost \$000	Specs Avail Now?	Date Revsn Avail	RFP Issue Date
CIDDS	Motorola, Scottsdale, AZ	SS/FPI	CECOM, Ft. Monmouth, NJ	Apr-00	Nov-00	1060	4	No	Aug 99	Dec-99
CIDDS	Motorola, Scottsdale, AZ	SS/O	CECOM, Ft. Monmouth, NJ	Oct-00	May-01	2655	3			

REMARKS: A sole source FPI contract will be awarded for ramp up to full rate production.

FY 00 / 01 BUDGET PRODUCTION SCHEDULE							P-1 Item Nomenclature: COMBAT IDENTIFICATION/AIMING LIGHT (CIDD (BA0515))												Date: February 1999											
COST ELEMENTS	MFR	FY	SERV	PROC QTY Each	ACCEP. PRIOR TO 1 OCT	BAL DUE AS OF 1 OCT	Fiscal Year 98												Fiscal Year 99				L A T E R							
							Calendar Year 98						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
CIDDS	1	00	A	1060	0	1060																								
	1	01	A	2655	0	2655																								

FY 00 / 01 BUDGET PRODUCTION SCHEDULE							P-1 Item Nomenclature: COMBAT IDENTIFICATION/AIMING LIGHT (CIDD (BA0515))												Date: February 1999																		
COST ELEMENTS	MFR	FY	SERV	PROC QTY Each	ACCEP. PRIOR TO 1 OCT	BAL DUE AS OF 1 OCT	Fiscal Year 02												Fiscal Year 03												LATER						
							Calendar Year 02												Calendar Year 03																		
							OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP							
CIDDS	1	00	A	1060	1060																																
	1	01	A	2655	1100	1555	220	220	220	220	220	220	235																								
							OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP							
MFR	NAME / LOCATION	PRODUCTION RATES			REACHED D +	MFR Number	ADMIN LEAD TIME		MFR After 1 Oct.	TOTAL After 1 Oct.	REMARKS																										
		MIN.	1-8-5	MAX.			Prior 1 Oct.	After 1 Oct.																													
	Motorola, Scottsdale, AZ	200	1000	2000		1	INITIAL	00	0	4	7	11																									
							REORDER	01	1	0	7	7																									
							INITIAL																														
							REORDER																														
							INITIAL																														
							REORDER																														
							INITIAL																														
							REORDER																														
							INITIAL																														
							REORDER																														

Exhibit P-40, Budget Item Justification Sheet

Date:

February 1999

Appropriation / Budget Activity/Serial No:

OTHER PROCUREMENT / 2 / Communications and Electronics Equipment

P-1 Item Nomenclature:

ARTILLERY ACCURACY EQUIP (AD3200)

Program Elements for Code B Items:

Code:

Other Related Program Elements:

	Prior Years	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	To Complete	Total Prog
Proc Qty												
Gross Cost	332.0	4.5	4.4	11.0	4.3	14.5	4.4	41.5	1.8	0.0	0.0	418.4
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	332.0	4.5	4.4	11.0	4.3	14.5	4.4	41.5	1.8	0.0	0.0	418.4
Initial Spares												
Total Proc Cost	332.0	4.5	4.4	11.0	4.3	14.5	4.4	41.5	1.8	0.0	0.0	418.4
Flyaway U/C												
Wpn Sys Proc U/C												

DESCRIPTION: Artillery Accuracy Equipment involves the procurement of meteorological, survey and velocity measuring equipment designed to improve accuracy of Army artillery weapons and increase the probability of first round target hits. This category of equipment included procurement of the Meteorological Measuring System (K27800) and Artillery Muzzle Velocity System (AD3250).

JUSTIFICATION: The FY00-01 funds support fielded units and readiness requirements with conventional and Paladin versions of the Muzzle Velocity System (MVS) and the Meteorological Measuring System (MMS), providing field artillery weather data.

Exhibit P-5, Weapon OPA Cost Analysis		Appropriation/ Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment			P-1 Line Item Nomenclature: ARTILLERY ACCURACY EQUIP (AD3200)			Weapon System Type:			Date: February 1999			
OPA Cost Elements		ID	FY 98			FY 99			FY 00			FY 01		
		CD	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
			\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000
METEOROLOGICAL MEASURING SYS ARTY MUZZLE VELOCITY SYSTEM			4381	296	15	6582 4392	9 150	731 29	4283	150	29	11008 3500	14 120	786 29
TOTAL			4381			10974			4283			14508		

Exhibit P-40, Budget Item Justification Sheet

Date: February 1999

Appropriation / Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment
 P-1 Item Nomenclature: METEOROLOGICAL MEASURING SYS (K27800)

Program Elements for Code B Items: Code: Other Related Program Elements:

	Prior Years	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	To Complete	Total Prog
Proc Qty	127			9		14						150
Gross Cost	124.4	0.0	0.0	6.6	0.0	11.0	0.5	0.0	0.0	0.0	0.0	142.5
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	124.4	0.0	0.0	6.6	0.0	11.0	0.5	0.0	0.0	0.0	0.0	142.5
Initial Spares												
Total Proc Cost	124.4	0.0	0.0	6.6	0.0	11.0	0.5	0.0	0.0	0.0	0.0	142.5
Flyaway U/C												
Wpn Sys Proc U/C												

DESCRIPTION: The Meteorological Measuring System (MMS) provides field artillery weather data to the active Army. It is an upper air meteorological data collection, processing and dissemination system that provides necessary data to field artillery, target acquisition, and air weather service to improve their mission capability. It is mobile, provides high altitude Met Data to USAF Weather Service, radiological fallout data to the chemical sections, meet roll on/roll off HMMWV requirements data to 30KM.

JUSTIFICATION: The FY01 procurement supports additional National Guard MMS requirements. The MMS provides meteorological data to field artillery units to improve their firing accuracy. Current systems do not have the digital format capabilities that will be required for all artillery systems. It is critical to replace current systems with the MMS to improve the combat capability of the total Army in support of the defense effort of the United States.

Exhibit P-5, Weapon OPA Cost Analysis		Appropriation/ Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment			P-1 Line Item Nomenclature: METEOROLOGICAL MEASURING SYS (K27800)			Weapon System Type:			Date: February 1999			
OPA Cost Elements		ID	FY 98			FY 99			FY 00			FY 01		
		CD	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
			\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000
1. Hardware		A				5706	9	634				9688	14	692
2. Testing						88						150		
3. Engineering Support						134						309		
- Contractor Support						318						517		
- In House Support														
4. Fielding						100						189		
5. Program Management Admin						236						155		
TOTAL						6582						11008		

Exhibit P-5a, Budget Procurement History and Planning

Date:
February 1999

Appropriation / Budget Activity/Serial No:
OTHER PROCUREMENT / 2 / Communications and Electronics
Equipment

Weapon System Type:

P-1 Line Item Nomenclature:
METEOROLOGICAL MEASURING SYS (K27800)

WBS Cost Elements: Fiscal Years	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY Each	Unit Cost \$000	Specs Avail Now?	Date Revsn Avail	RFP Issue Date
1. Hardware										
FY99	ETG, Baltimore, MD	SS/FFP	CECOM	Feb-99	Nov-99	9	634	Yes	No	
FY01	ETG, Baltimore, MD	SS/FFP	CECOM	Dec-00	Jul-01	14	692	Yes	No	

REMARKS:

FY 00 / 01 BUDGET PRODUCTION SCHEDULE

P-1 Item Nomenclature: METEOROLOGICAL MEASURING SYS (K27800)

Date: February 1999

COST ELEMENTS	MFR	FY	SERV	PROC QTY Each	ACCEP. PRIOR TO 1 OCT	BAL DUE AS OF 1 OCT	Fiscal Year 98												Fiscal Year 99												L A T E R
							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	
Hardware	1	97 & Pr	A	42	42																										
	1	FY98	NG	7		7													A								7				
	1	FY99	A	9		9												A									9				
	1	FY01	A	14		14																					14				
Total				72	42	30																					30				

MFR	NAME / LOCATION	PRODUCTION RATES			REACHED D +	MFR Number	ADMIN LEAD TIME		MFR After 1 Oct.	TOTAL After 1 Oct.	REMARKS
		MIN.	1-8-5	MAX.			Prior 1 Oct.	After 1 Oct.			
		1	Environmental Technologies, Baltimore, MD	1			2	4			
						REORDER	0	2	8	10	
						INITIAL					
						REORDER					
						INITIAL					
						REORDER					
						INITIAL					
						REORDER					
						INITIAL					
						REORDER					

FY 00 / 01 BUDGET PRODUCTION SCHEDULE						P-1 Item Nomenclature: METEOROLOGICAL MEASURING SYS (K27800)												Date: February 1999																							
COST ELEMENTS	MFR	FY	SERV	PROC QTY Each	ACCEP. PRIOR TO 1 OCT	BAL DUE AS OF 1 OCT	Fiscal Year 00												Fiscal Year 01												LATER										
							Calendar Year 00												Calendar Year 01																						
							OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP											
Hardware	1	97 & Pr	A	42	42																																				
	1	FY98	NG	7		7	4	3																																	
	1	FY99	A	9		9		1	4	4																															
	1	FY01	A	14		14																																			
Total				72	42	30	4	4	4	4																															
							OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP											
MFR	PRODUCTION RATES				REACHED	MFR Number	ADMIN LEAD TIME				MFR After 1 Oct.	TOTAL After 1 Oct.	REMARKS																												
	NAME / LOCATION	MIN.	1-8-5	MAX.			D +	Prior 1 Oct.	After 1 Oct.																																
1	Environmental Technologies, Baltimore, MD	1	2	4	18	1	INITIAL	0	4	10	14																														
							REORDER	0	2	8	10																														
							INITIAL																																		
							REORDER																																		
							INITIAL																																		
							REORDER																																		
							INITIAL																																		
							REORDER																																		
							INITIAL																																		
							REORDER																																		

FY 00 / 01 BUDGET PRODUCTION SCHEDULE	P-1 Item Nomenclature: METEOROLOGICAL MEASURING SYS (K27800)	Date: February 1999
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COST ELEMENTS	MFR	FY	SERV	PROC QTY Each	ACCEP. PRIOR TO 1 OCT	BAL DUE AS OF 1 OCT	Fiscal Year 02												Fiscal Year 03												LATER
							Calendar Year 02						Calendar Year 03						Calendar Year 03												
							OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	
Hardware	1	97 & Pr	A	42	42																										
	1	FY98	NG	7	7																										
	1	FY99	A	9	9																										
	1	FY01	A	14	12	2	2																								
Total				72	70	2																					2				

MFR	NAME / LOCATION	PRODUCTION RATES			REACHED	MFR Number	ADMIN LEAD TIME		MFR	TOTAL	REMARKS		
		MIN.	1-8-5	MAX.			D +	Prior 1 Oct.				After 1 Oct.	After 1 Oct.
1	Environmental Technologies, Baltimore, MD	1	2	4	18	1	INITIAL		0	4	10	14	
							REORDER		0	2	8	10	
							INITIAL						
							REORDER						
							INITIAL						
							REORDER						
							INITIAL						
							REORDER						
							INITIAL						
							REORDER						

Exhibit P-40, Budget Item Justification Sheet

Date: February 1999

Appropriation / Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment
 P-1 Item Nomenclature: ARTY MUZZLE VELOCITY SYSTEM (AD3250)

Program Elements for Code B Items: Code: Other Related Program Elements:

	Prior Years	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	To Complete	Total Prog
Proc Qty												
Gross Cost	21.1	4.5	4.4	4.4	4.3	3.5	3.4	3.4	1.3	0.0	0.0	50.3
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	21.1	4.5	4.4	4.4	4.3	3.5	3.5	3.5	1.3	0.0	0.0	50.5
Initial Spares												
Total Proc Cost	21.1	4.5	4.4	4.4	4.3	3.5	3.5	3.5	1.3	0.0	0.0	50.5
Flyaway U/C												
Wpn Sys Proc U/C												

DESCRIPTION: The Muzzle Velocity System (MVS) Conventional is a Doppler Radar System which measures the muzzle velocity of artillery projectiles. It consists of weapon-mounted antenna connected to a display unit. The display will provide the muzzle velocity of the last round fired. The MVS will also compute weapon calibration data and store that data. A separate Paladin version of MVS is being fielded for use with the M109A6 Paladin Howitzer. It will not require a display and will be integrated into the M109A6 Paladin Automatic Fire Control System. The MVS will enhance artillery accuracy and first round hit probability. This will decrease projectile and propellant usage and reduce the requirements to adjust fire on target. The MVS will also provide an automated method for calculating and storing weapon calibration data. The MVS is being procured as a non-developmental item (NDI) which includes acquisition of provisioning data, manuals, and training, together with the production hardware for fielding and additional related hardware, Muzzle Velocity Communications Adapters (MCA).

JUSTIFICATION: The FY00-01 procurement supports fielded units and readiness requirements for both conventional and Paladin versions of the Muzzle Velocity System.

Exhibit P-5, Weapon OPA Cost Analysis		Appropriation/ Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment			P-1 Line Item Nomenclature: ARTY MUZZLE VELOCITY SYSTEM (AD3250)			Weapon System Type:			Date: February 1999			
OPA Cost Elements		ID	FY 98			FY 99			FY 00			FY 01		
		CD	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
			\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000
1. Hardware RSI/Related	A		2800	181	15	3564	150	24	3562	150	24	3052	120	25
			1344	115	12									
2. Initial Contr Support/Software Support						260			120			120		
3. Engineering Support (In-House)			205			138			295			125		
4. Quality Assurance (ARDEC)			32			59			150			75		
5. Engineering Change Proposals						350			142			114		
7. Fielding						21			14			14		
TOTAL			4381			4392			4283			3500		

Exhibit P-5a, Budget Procurement History and Planning

Date:
February 1999

Appropriation / Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment		Weapon System Type:			P-1 Line Item Nomenclature: ARTY MUZZLE VELOCITY SYSTEM (AD3250)					
WBS Cost Elements: Fiscal Years	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY Each	Unit Cost \$000	Specs Avail Now?	Date Revsn Avail	RFP Issue Date
Hardware										
Conventional	RSI Electronics Poughkeepsie, NY		ACALA							
FY98*		SS/FFPM-5(5)		May-98	Oct-98	181	15	Yes	No	
FY99		SS/FFPM-5(1)		Apr-99	Oct-99	150	24	Yes	No	
FY00		SS/FFPM-5(2)		Mar-00	Jul-00	150	24	Yes	No	
FY01		SS/FFPM-5(3)		Dec-00	May-01	120	25	Yes	No	
Paladin	RSI Electronics Poughkeepsie, NY		ACALA							
FY98*		SS/FFPM-5(5)		Jan-98	May-99	115	12	Yes	No	

REMARKS: *FY98 contract award includes both Conventional and Paladin.
The FY99 procurement quantities are for the balance of M94 MVS and the initial procurement of M94 MVS Communications Adapters (MCA) which are planned for fielding to each non-Paladin 155mm tube and each 105mm tube.

FY 2000 / FY 2001 BUDGET PRODUCTION SCHEDULE							P-1 Item Nomenclature: ARTY MUZZLE VELOCITY SYSTEM (AD3250)												Date: February 1999																								
COST ELEMENTS	MFR	FY	SERV	PROC QTY Each	ACCEP. PRIOR TO 1 OCT	BAL DUE AS OF 1 OCT	Fiscal Year 98												Fiscal Year 99					LATER																			
							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												
Hardware	1	97 & Pr	A	1012	811	201	10	28	28	28	28	24	12	13	13	13	4																										
	1	97 & Pr	MC	149	149																																						
Conventional	1	FY98	A	181	0	181								A										10	16	16	16	16	16	16	16	16	16	16	16	16	16	16	12	16	15		
	1	FY99	A	150	0	150																																			150		
	1	FY00	A	150	0	150																																			150		
	1	FY01	A	120	0	120																																			120		
Paladin	1	FY98	A	115	0	115																																					26
Total				1877	960	917	10	28	28	28	28	24	12	13	13	13	4						10	16	16	16	16	16	16	16	16	16	16	16	16	16	16	25	36	32	36	35	446

MFR	NAME / LOCATION	PRODUCTION RATES			REACHED D +	MFR Number	ADMIN LEAD TIME		MFR After 1 Oct.	TOTAL After 1 Oct.	REMARKS	
		MIN.	1-8-5	MAX.			Prior 1 Oct.	After 1 Oct.				
1	RSI Electronics, Poughkeepsie, NY	4	16	35		1	INITIAL	7	7	6	13	REMARKS MFR leadtimes extended to maintain 1-8-5 production rates.
							REORDER	7	6	7	13	
							INITIAL					
							REORDER					
							INITIAL					
							REORDER					
							INITIAL					
							REORDER					

FY 2000 / FY 2001 BUDGET PRODUCTION SCHEDULE

P-1 Item Nomenclature:
ARTY MUZZLE VELOCITY SYSTEM (AD3250)

Date:
February 1999

COST ELEMENTS	MFR	FY	SERV	PROC QTY Each	ACCEP. PRIOR TO 1 OCT	BAL DUE AS OF 1 OCT	Fiscal Year 00												Fiscal Year 01												L A T E R
							Calendar Year 00												Calendar Year 01												
							OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	
Hardware	1	97 & Pr	A	1012	1012																										
	1	97 & Pr	MC	149	149																										
Conventional	1	FY98	A	181	181																										
	1	FY99	A	150	0	150	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16						
	1	FY00	A	150	0	150					A				10	16	16	16	16	16	16	16	16	12							
	1	FY01	A	120	0	120												A				16	16	16	16						
Paladin	1	FY98	A	115	89	26	6	20																	40						
						22	36	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	12	16	16	16	16	16	16	40

MFR	NAME / LOCATION	PRODUCTION RATES			REACHED D +	MFR Number	ADMIN LEAD TIME		MFR After 1 Oct.	TOTAL After 1 Oct.	REMARKS	
		MIN.	1-8-5	MAX.			Prior 1 Oct.	After 1 Oct.				
1	RSI Electronics, Poughkeepsie, NY	4	16	35		1	INITIAL	7	7	6	13	REMARKS MFR leadtimes extended to maintain 1-8-5 production rates.
							REORDER	7	6	7	13	
							INITIAL					
							REORDER					
							INITIAL					
							REORDER					
							INITIAL					
							REORDER					

Exhibit P-40, Budget Item Justification Sheet

Date:

February 1999

Appropriation / Budget Activity/Serial No:

OTHER PROCUREMENT / 2 / Communications and Electronics Equipment

P-1 Item Nomenclature:

PORTABLE INDUCTIVE ARTILLERY FUZE SETTER (AD3260)

Program Elements for Code B Items:

Code:

Other Related Program Elements:

	Prior Years	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	To Complete	Total Prog
Proc Qty					3492							3492
Gross Cost	0.0	0.0	0.0	0.0	4.1	0.0	0.0	0.0	0.0	0.0	0.0	4.1
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	0.0	0.0	0.0	0.0	4.1	0.0	0.0	0.0	0.0	0.0	0.0	4.1
Initial Spares												
Total Proc Cost	0.0	0.0	0.0	0.0	4.1	0.0	0.0	0.0	0.0	0.0	0.0	4.1
Flyaway U/C												
Wpn Sys Proc U/C					1185							1185

DESCRIPTION: This sprogram upports procurement of the Portable Inductive Artillery Fuze Setter (PIAFS). The PIAFS is a hand held wand that can be used to set all NATO inductive artillery fuzes including the M762, M767 and XM 782 Multi Option Fuze for Artillery (MOFA).

JUSTIFICATION: PIAFS is needed to support fielding of the XM782 Multi Option Fuze for Artillery (MOFA). PIAFS will be required in all US howitzer systems except Crusader, which has built-in inductive artillery fuze setting capability. The XM782 MOFA will go into production in fiscal year 2000 therefore procurement of the PIAFS is critical to allow the current artillery fleet to make use of this new artillery fuze.

ACQUISITION MANAGER: PM Crusader

Exhibit P-5, Weapon OPA Cost Analysis		Appropriation/ Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment			P-1 Line Item Nomenclature: PORTABLE INDUCTIVE ARTILLERY FUZE SETTER (PIAFS) (AD3260)			Weapon System Type:			Date: February 1999			
OPA Cost Elements		ID	FY 98			FY 99			FY 00			FY 01		
		CD	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
			\$000	Each	\$	\$000	Each	\$	\$000	Each	\$	\$000	Each	\$
PIAFS Complete Setter									2737	3492	784			
SUBTOTAL									2737					
Production Support Costs														
Engineering in support of production									300					
Quality Assurance									100					
Lot Acceptance Testing									300					
SUBTOTAL									700					
Non Recurring Costs														
First Article Testing									400					
Fielding									300					
SUBTOTAL									700					
TOTAL									4137	3492	1185			

Exhibit P-5a, Budget Procurement History and Planning

Date: February 1999

Appropriation / Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment		Weapon System Type:			P-1 Line Item Nomenclature: PORTABLE INDUCTIVE ARTILLERY FUZE SETTER (PIAFS) (AD3260)					
WBS Cost Elements: Fiscal Years	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY Each	Unit Cost \$	Specs Avail Now?	Date Revsn Avail	RFP Issue Date
PIAFS Complete Setter FY 00	TBS	C/FFP	Picatinny, NJ	Jun-00	Jan-01	3492	784	NO	Jun-00	Jun-00

REMARKS:

Exhibit P-40, Budget Item Justification Sheet

Date:

February 1999

Appropriation / Budget Activity/Serial No:

OTHER PROCUREMENT / 2 / Communications and Electronics Equipment

P-1 Item Nomenclature:

MOD OF IN-SVC EQUIP (TAC SURV) (BZ7325)

Program Elements for Code B Items:

Code:

Other Related Program Elements:

	Prior Years	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	To Complete	Total Prog
Proc Qty												
Gross Cost	343.2	16.1	1.1	16.3	6.5	8.9	21.8	32.1	26.4	11.8	0.0	484.1
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	343.2	16.1	1.1	16.3	6.5	8.9	21.8	32.1	26.4	11.8	0.0	484.1
Initial Spares												
Total Proc Cost	343.2	16.1	1.1	16.3	6.5	8.9	21.8	32.1	26.4	11.8	0.0	484.1
Flyaway U/C												
Wpn Sys Proc U/C												

DESCRIPTION: MOD IN-SERVICE EQUIPMENT (TAC SURV) funds the modifications to the FIREFINDER radars, the AN/TPQ-36 Mortar Locating Radar and the AN/TPQ-37 Artillery Locating Radar. The FIREFINDER equipment is designed to meet the Army's critical need to quickly and accurately locate the large number and variety of hostile indirect fire weapons. The FIREFINDER radars use a combination of radar techniques and computer controlled signal processing to detect and locate enemy field artillery with sufficient accuracy to permit rapid engagement with counterfire. The FIREFINDER radars are capable of locating multiple weapons simultaneously and transmitting the target data to appropriate counterfire elements in near real time. The AN/TPQ-36 is a phased-array X-Band radar which automatically locates mortar and short range rocket launchers. The system is configured on three (3) HMMWVs making it highly mobile and transportable. The AN/TPQ-37 is a larger system requiring a 5-ton truck to pull the Antenna Transceiver Group (ATG). The AN/TPQ-37 is a phased-array S-Band radar with a longer target acquisition range than the AN/TPQ-36 allowing it to locate long range artillery and rockets.

JUSTIFICATION: FY00-01 funds the Fire Support Digitization program which procures hardware/software required to upgrade AN/TPQ-36(V)5/7s and AN/TPQ-37s to allow AFATDS connectivity and provide Joint Technical Architecture-Army (JTA-A) compliance. FY00-01 also funds Pre-Mod Depot Maintenance to support the AN/TPQ-36(V)8 and AN/TPQ-37(V)8 modifications. FY01 funding also initiates the procurement of the additional AN/TPQ-37(V)8 modification kits required to complete the Army AAO.

Exhibit P-40M Budget Item Justification Sheet

Date February 1999

Appropriation / Budget Activity/Serial No. P-1 Item Nomenclature
 OTHER PROCUREMENT / 2 / Communications and Electronics Equipment MOD OF IN-SVC EQUIP (TAC SURV) (BZ7325)

Program Elements for Code B Items Code Other Related Program Elements

Description		Fiscal Years									
OSIP NO.	Classification	FY 1998 and Prior	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	TC	Total
AN/TPQ-36(V)8 Electronic Upgrade											
1-90-07-0016	Unclassified	80.0	12.5	1.6	1.0	12.6	25.7	25.4	11.8	0.0	170.6
AN/TPQ-37(V)8 Enhanced FIREFINDER Block I											
1-93-07-0001	Unclassified	26.9	1.2	1.7	4.3	8.5	1.0	0.0	0.0	0.0	43.6
Fire Support Digitization											
99-001	Unclassified	0.0	2.1	3.2	3.6	0.7	0.0	0.0	0.0	0.0	9.6
Firefinder Position Analysis System (FFPAS) (No P3a Set)											
99-002	Unclassified	0.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5
AN/TPQ-37 Long Range Software (No P3a Set)											
03-001	Unclassified	0.0	0.0	0.0	0.0	0.0	1.9	0.2	0.0	0.0	2.1
AN/TPQ-36/37 MAPS Hybrid (No P3a Set)											
03-002	Unclassified	0.0	0.0	0.0	0.0	0.0	3.5	0.8	0.0	0.0	4.3
Totals		106.9	16.3	6.5	8.9	21.8	32.1	26.4	11.8	0.0	230.7

INDIVIDUAL MODIFICATION

Date February 1999

MODIFICATION TITLE: AN/TPQ-36(V)8 Electronic Upgrade 1-90-07-0016

MODELS OF SYSTEMS AFFECTED: AN/TPQ-36(V)5 and AN/TPQ-36(V)7 HMMWV Radar

DESCRIPTION / JUSTIFICATION:

The AN/TPQ-36 is the primary target acquisition and counterfire system for the field artillery in support of Divisions, separate Brigades, and rapid deployment task forces. This program incorporates the first electronics upgrade to the 1970s technology of this system and corrects Operation Desert Storm identified deficiencies in range, false target rate, target throughput, target classification and displacement time. It replaces electronic components, that are rapidly approaching obsolescence, with standard Common Hardware/Software (CHS) and/or Commercial Off-The-Shelf (COTS) equipment. This Materiel Change provides a validated cost benefit of \$48.933M (FY92 constant dollars) attributed to Operational and Support (O&S) savings over twenty years. FY99 funding completes the installation of the modification kits procured in FY96/97 and procures seven (7) modification kits. FY02-05 funding will procure and install an additional forty-eight (48) modification kits to complete the Army AAO..

DEVELOPMENT STATUS / MAJOR DEVELOPMENT MILESTONES:

Milestone III was approved in 3QFY96. A Full Rate Production contract for eleven (11) modification kits was awarded in 4QFY96. An option for an additional eleven (11) kits was awarded in 2QFY97. Initial Operational Capability (IOC) was accomplished 4QFY98. Contract award to procure seven (7) modification kits is scheduled for 3QFY99. A contract to procure additional modification kits will be awarded 2QFY02.

Installation Schedule:

Pr Yr	FY 1999				FY 2000				FY 2001				FY 2002				FY 2003			
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Totals																				
Inputs *	11	3	8	8				7												4
Outputs *	11	3	8	8				7												4

*Eight (8) LRIP Units installed at contractor's facility prior to delivery

	FY 2004				FY 2005				FY 2006				FY 2007				To Complete	Totals
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4		
Inputs	4	4	4	4	6	6	6	6										85
Outputs	4	4	4	4	6	6	6	6										85

METHOD OF IMPLEMENTATION: FRP-Depot **ADMINISTRATIVE LEADTIME:** Months **PRODUCTION LEADTIME:** Months
Contract Dates: FY 1999 3QFY99 FY 2000 Enter Date FY 2001 Enter Date
Delivery Date: FY 1999 3QFY00 FY 2000 Enter Date FY 2001 Enter Date

INDIVIDUAL MODIFICATION

Date February 1999

MODIFICATION TITLE (Cont): AN/TPQ-36(V)8 Electronic Upgrade 1-90-07-0016

FINANCIAL PLAN: (\$ in Millions)

	FY 1998 and Prior		FY 1999		FY 2000		FY 2001		FY 2002		FY 2003		FY 2004		FY 2005		TC		TOTAL		
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	
RDT&E																					
PROCUREMENT																					
Kit Quantity	30		7						9		16		16		7					85	
Modification Kits (V5 to V7)																					
Installation Kits, Nonrecurring																					
Equipment		37.3		8.5					12.1		22.9		23.2		9.9					113.9	
Equipment, Nonrecurring		24.5		0.7																25.2	
Engineering Change Orders		0.3																		0.3	
Data		3.3							0.1		0.1		0.1							3.6	
Training Equipment		5.1																		5.1	
Engineering Support		3.7		0.5					0.2		0.5		0.5		0.3					5.7	
Testing		0.2		0.6							0.3		0.3		0.1					1.5	
PM Admin		4.8		0.8					0.2		0.4		0.4		0.2					6.8	
Fielding		0.7		0.6																1.3	
Interim Contractor Support																					
Pre-Mod Depot Maint				0.3		1.3		1.0			1.0									3.6	
(*See Page 3)																					
Installation of Hardware																					
* FY 1998 & Prior Eqpt -- Kits	11	0.1	19	0.5																30	0.6
FY 1999 Eqpt -- Kits					7	0.3														7	0.3
FY 2000 Eqpt -- Kits																					
FY 2001 Eqpt -- Kits																					
FY 2002 Eqpt -- kits											8	0.5								8	0.5
FY 2003 Eqpt -- kits													16	0.9						16	0.9
FY 2004 Eqpt -- kits															24	1.3				24	1.3
FY 2005 Eqpt -- kits																					
TC Equip-Kits																					
Total Installment	11	0.1	19	0.5	7	0.3					8	0.5	16	0.9	24	1.3				85	3.6
Total Procurement Cost		80.0		12.5		1.6		1.0		12.6		25.7		25.4		11.8					170.6

INDIVIDUAL MODIFICATION

Date February 1999

MODIFICATION TITLE: AN/TPQ-37(V)8 Enhanced FIREFINDER Block I 1-93-07-0001

MODELS OF SYSTEMS AFFECTED: AN/TPQ-37(V)5 and (V)6

DESCRIPTION / JUSTIFICATION:

This Materiel Change (MC) is vital to keeping the AN/TPQ-37 radars sustainable in the field. The MC is limited to mechanical, electrical, and software changes necessary to maintain the Reliability, Availability, Maintainability (RAM), transportability, mobility and interoperability of the system. Modifications to the system upgrade the cooling system, provide for transportability by a C130/141, upgrade the trailer, incorporate a self-survey capability, reduce false locations, correct and incorporate existing long range software, improve the transmitter RAM, integrate the AN/TPQ-36(V)7 Operations Control Group (OCG) on the M-1097.

Funding in FY99 will modify the AN/TPQ-37(V)8 to be compatible with the Family of Medium Tracked Vehicles (FMTV).
 Funding in FY01-03 will procure and install an additional twenty-two (22) modification kits to complete the Army AAO.

DEVELOPMENT STATUS / MAJOR DEVELOPMENT MILESTONES:

Milestone III was approved in 3QFY94. Production contract for twenty-six (26) modification kits was awarded in 3QFY94. First Article testing was completed in 1QFY96. Installation/fielding of modification kits was completed 1QFY98. A contract to procure additional modification kits will be awarded 2QFY01.

Installation Schedule:

Pr Yr	FY 1999				FY 2000				FY 2001				FY 2002				FY 2003			
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Inputs	26															4	5	5	4	4
Outputs	26															4	5	5	4	4

	FY 2004				FY 2005				FY 2006				FY 2007				To Complete	Totals		
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4				
Inputs																				48
Outputs																				48

METHOD OF IMPLEMENTATION: Depot ADMINISTRATIVE LEADTIME: 3 Months PRODUCTION LEADTIME: 15 Months
 Contract Dates: FY 1999 Enter Date FY 2000 Enter Date FY 2001 2QFY01
 Delivery Date: FY 1999 Enter Date FY 2000 Enter Date FY 2001 Enter Date

INDIVIDUAL MODIFICATION

Date

February 1999

MODIFICATION TITLE (Cont): AN/TPQ-37(V)8 Enhanced FIREFINDER Block I 1-93-07-0001

FINANCIAL PLAN: (\$ in Millions)

	FY 1998 and Prior		FY 1999		FY 2000		FY 2001		FY 2002		FY 2003		FY 2004		FY 2005		TC		TOTAL		
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	
RDT&E																					
PROCUREMENT																					
Kit Quantity	26						8		14											48	
Installation Kits				0.1																	0.1
Installation Kits, Nonrecurring																					
Equipment		10.5					4.1		7.3												21.9
Equipment, Nonrecurring		11.5		0.4																	11.9
Engineering Change Orders																					
Data		2.2		0.1																	2.3
Training Equipment																					
Engineering Support		0.8					0.1		0.1		0.1										1.1
Test				0.1			0.1		0.2												0.4
PM Admin		1.1		0.1																	1.2
Fielding				0.1								0.1									0.2
Interim Contractor Support																					
Pre-Mod Depot Maint				0.3		1.7			0.7												2.7
Installation of Hardware																					
FY 1998 & Prior Eqpt -- Kits	26	0.8																		26	0.8
FY 1999 Eqpt -- Kits																					
FY 2000 Eqpt -- Kits																					
FY 2001 Eqpt -- Kits									4	0.2	4	0.2								8	0.4
FY 2002 Eqpt -- kits											14	0.6								14	0.6
FY 2003 Eqpt -- kits																					
FY 2004 Eqpt -- kits																					
FY 2005 Eqpt -- kits																					
TC Equip-Kits																					
Total Installment	26	0.8							4	0.2	18	0.8								48	1.8
Total Procurement Cost	26.9		1.2		1.7		4.3		8.5		1.0										43.6

INDIVIDUAL MODIFICATION

Date February 1999

MODIFICATION TITLE: Fire Support Digitization 99-001

MODELS OF SYSTEMS AFFECTED: AN/TPQ-36(V)5/7 and AN/TPQ-37(V)8

DESCRIPTION / JUSTIFICATION:

This upgrade will modify the FIREFINDER Operations Control Group (OCG) and will incorporate hardware and software to allow AFATDS connectivity and provide Joint Technical Architecture-Army (JTA-A) compliance. The new hardware will include a Lightweight Computer Unit (LCU) and TACFIRE Control Interface Module (TCIM).

FY99-02 funding is required for the procurement and installation of the hardware/software required to upgrade the AN/TPQ-36(V)5/7s and the Active Army AN/TPQ-37s.

DEVELOPMENT STATUS / MAJOR DEVELOPMENT MILESTONES:

A contract for Non-Recurring Engineering (NRE) efforts will be awarded 2QFY99. A production contract will be awarded 2QFY00 with an option to be exercised in 1QFY01. Initial Operational Capability (IOC) scheduled for 1QFY01

Installation Schedule:

Pr Yr	FY 1999				FY 2000				FY 2001				FY 2002				FY 2003			
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Totals									12	12	12	14	14	14	14	11				
Inputs									12	12	12	14	14	14	14	11				
Outputs									12	12	12	14	14	14	14	11				

	FY 2004				FY 2005				FY 2006				FY 2007				To Complete	Totals			
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4					
Inputs																					103
Outputs																					103

METHOD OF IMPLEMENTATION: Depot ADMINISTRATIVE LEADTIME: Months PRODUCTION LEADTIME: 6 Months

Contract Dates: FY 1999 2QFY99 FY 2000 2QFY00 FY 2001 1QFY01

Delivery Date: FY 1999 Enter Date FY 2000 4QFY00 FY 2001 3QFY01

INDIVIDUAL MODIFICATION

Date

February 1999

MODIFICATION TITLE (Cont): Fire Support Digitization 99-001

FINANCIAL PLAN: (\$ in Millions)

	FY 1998 and Prior		FY 1999		FY 2000		FY 2001		FY 2002		FY 2003		FY 2004		FY 2005		TC		TOTAL		
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	
RDT&E																					
PROCUREMENT																					
Kit Quantity					50		53													103	
Installation Kits																					
Installation Kits, Nonrecurring																					
Equipment						2.5		2.6													5.1
Equipment, Nonrecurring				1.4																	1.4
Engineering Change Orders																					
Data				0.2		0.1															0.3
Training Equipment																					
Support Equipment																					
Engineering Support				0.3		0.4		0.4													1.1
PM Admin				0.2		0.2		0.1		0.1											0.6
Interim Contractor Support																					
Installation of Hardware																					
FY 1998 & Prior Eqpt -- Kits																					
FY 1999 Eqpt -- Kits																					
FY 2000 Eqpt -- Kits							50	0.5												50	0.5
FY 2001 Eqpt -- Kits									53	0.6										53	0.6
FY 2002 Eqpt -- kits																					
FY 2003 Eqpt -- kits																					
FY 2004 Eqpt -- kits																					
FY 2005 Eqpt -- kits																					
TC Equip-Kits																					
Total Installment							50	0.5	53	0.6										103	1.1
Total Procurement Cost				2.1		3.2		3.6		0.7											9.6

Exhibit P-40, Budget Item Justification Sheet

Date: February 1999

Appropriation / Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment
 P-1 Item Nomenclature: DIGITIZATION APPLIQUE (W61900)

Program Elements for Code B Items: W61900
 Code: B
 Other Related Program Elements:

	Prior Years	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	To Complete	Total Prog
Proc Qty												
Gross Cost	0.0	0.0	0.0	0.0	66.4	62.1	81.8	110.4	157.3	168.4	1079.8	1726.2
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	0.0	0.0	0.0	0.0	66.4	62.1	81.8	110.4	157.3	168.4	1079.8	1726.2
Initial Spares												
Total Proc Cost	0.0	0.0	0.0	0.0	66.4	62.1	81.8	110.4	157.3	168.4	1079.8	1726.2
Flyaway U/C												
Wpn Sys Proc U/C												

DESCRIPTION: The initial Force XXI Battle Command Brigade and Below (FBCB2) effort was developed as part of the Army's digitization initiative. The mission of FBCB2 is to field a Digital Battle Command information system that provides mounted tactical combat, combat support, and combat service support commanders, leaders and soldiers integrated, on the move, real-time/near real time, battle command and information and situational awareness from brigade down to the soldier/platform level across all battlefield function areas (BFAs). FBCB2 is located in the mounted and dismounted maneuver (divisional, separate, heavy and light) cavalry/reconnaissance and armored cavalry, mechanized infantry and aviation units. FBCB2 is integrated with the Army Tactical Command and Control System (ATCCS) located within the brigade and battalion. FBCB2 allows the Army's primary weapons and battle command systems to see, acquire and engage threats while sharing the same information with equal clarity, using advanced technologies and digital communications. FBCB2 develops a seamless battlefield architecture and digitized applique system (computer with graphics display, global positioning system, communications link and command and control software) required to equip the First Digitized Division by FY00, the Reserve Component in FY02/03, and First Digitized Corp by FY04.

JUSTIFICATION: The FY00 program provides for the initial procurement of FBCB2 and total fielding of the First Digitized Division (4ID-Ft Hood) to align the Training and Doctrine Command's list of priority one systems.

FY01 program continues the production buy and fielding to the Second Digitized Division (1CD-Ft Hood).

Exhibit P-5, Weapon OPA Cost Analysis		Appropriation/ Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment			P-1 Line Item Nomenclature: DIGITIZATION APPLIQUE (W61900)			Weapon System Type:			Date: February 1999			
OPA Cost Elements		ID	FY 98			FY 99			FY 00			FY 01		
		CD	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
			\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000
Force XXI Battle Command Brigade and Below									41000	1640	25	36450	1458	25
Hardware - Applique & Installation Kits														
Army Preposition Stock														
Non Recurring Engineering								5280						
System Test and Evaluation								2164			98			
Engineering Support														
Government In-House								980			1180			
Contractor System Engineering								1673			1702			
Training								161						
Project Management Administration								1961			2357			
Fielding								13204			12515			
Software Support											7838			
TOTAL								66423			62140			

Exhibit P-5a, Budget Procurement History and Planning

Date: February 1999

Appropriation / Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment		Weapon System Type:			P-1 Line Item Nomenclature: DIGITIZATION APPLIQUE (W61900)					
WBS Cost Elements: Fiscal Years	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY Each	Unit Cost \$000	Specs Avail Now?	Date Revsn Avail	RFP Issue Date
FY-00 Applique & Installation Kits	TRW. Carson, CA	SS/FP	CECOM	Jan-00	May-00	1640	25	NO	N/A	TBD
FY-01 Applique & Installation Kits	TRW, Carson, CA TBS	SS/FP C/FP	CECOM CECOM	Oct-00 Oct-00	Feb-01 Mar-01	910 548	25 25	NO NO	N/A N/A	TBD TBD

REMARKS: Contract method for FY-01 will be leader/follower.

COST ELEMENTS	MFR	FY	SERV	PROC QTY Each	ACCEP. PRIOR TO 1 OCT	BAL DUE AS OF 1 OCT	Fiscal Year 98												Fiscal Year 99												LATER
							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	
Applique	1	00	A	1640																								1640			
	1	01	A	910																								910			
	2	01	A	548																								548			

MFR	NAME / LOCATION	PRODUCTION RATES			REACHED	MFR Number	ADMIN LEAD TIME		MFR After 1 Oct.	TOTAL After 1 Oct.	REMARKS	
		MIN.	1-8-5	MAX.			D +	Prior 1 Oct.				After 1 Oct.
1	TRW, Carson CA	100	200	400		1	INITIAL	0	4	4	8	
							REORDER	0	1	4	5	
2	TBS	100	200	400		2	INITIAL	0	1	5	6	
							REORDER					
							INITIAL					
							REORDER					
							INITIAL					
							REORDER					
							INITIAL					
							REORDER					

Exhibit P-40, Budget Item Justification Sheet

Date: February 1999

Appropriation / Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment
 P-1 Item Nomenclature: LIGHTWEIGHT LASER DESIGNATOR / RANGEFINDER (LLDR) (K31100)

Program Elements for Code B Items: 0604710A DL70
 Code: B
 Other Related Program Elements:

	Prior Years	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	To Complete	Total Prog
Proc Qty					14	33	40	43	58	77	Continuing	Continuing
Gross Cost	0.0	0.0	0.0	0.0	6.3	7.1	7.1	7.3	9.9	15.4	Continuing	Continuing
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	0.0	0.0	0.0	0.0	6.3	7.1	7.1	7.3	9.9	15.4	Continuing	Continuing
Initial Spares												
Total Proc Cost	0.0	0.0	0.0	0.0	6.3	7.1	7.1	7.3	9.9	15.4	Continuing	Continuing
Flyaway U/C					0.310	0.183	0.151	0.144	0.146	0.170		
Wpn Sys Proc U/C					0.447	0.223	0.174	0.169	0.171	0.200		

DESCRIPTION: K31100, AN/PED-1, Lightweight Laser Designator Rangefinder (LLDR) is a modular system designed for day/night all weather target acquisition, precise location, and designation for engagement by a variety of munitions. The target location module contains an advanced Forward Looking Infrared (FLIR) thermal sensor, day camera, laser rangefinder, digital compass/vertical angle measurement device, Global Positioning System, and system controller with digital data and video outputs. The laser designation module contains the laser and associated optics required for precision engagement by laser-guided artillery and aircraft-launched munitions. Weighing just 35 pounds with tripod and battery, the man-portable LLDR gives the light forces an impressive new fire support capability with 24-hour target identification, digital data export of precise target location for engagement by indirect fires, or laser designation for destruction by laser-guided munitions. LLDR will also be mounted on the STRIKER vehicle to provide this same target location and engagement capability for mounted artillery fire support teams.

JUSTIFICATION: LLDR meets an urgent requirement for precision target location and engagement for the artillery fire support teams, and has received Warfighter Rapid Acquisition Program (WRAP) funding in FY 1997 and FY 1998 to achieve an initial operational capability and to be integrated into the STRIKER system. LLDR is a Priority 2 system for the First Digitized Division, and will give fire support teams the capability to send timely and accurate target location digital data with the push of a button. LLDR will also serve as the sensor and digital data source for Marine Corps fire support teams, with Marine Corps providing funding for a joint production program starting in FY 2001. The Army FY 2000 funds will procure this critical capability for fielding to the 82nd Airborne Division.

Exhibit P-5, Weapon OPA Cost Analysis		Appropriation/ Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment			P-1 Line Item Nomenclature: LIGHTWEIGHT LASER DESIGNATOR / RANGEFINDER (LLDR) (K31100)			Weapon System Type:			Date: February 1999			
OPA Cost Elements		ID	FY 98			FY 99			FY 00			FY 01		
		CD	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
			\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000
K31100 AN/PED-1 LLDR		B							3060	14	219	5797	32	181
Government Engineering Support									317			309		
Project Management Admin									223			206		
Fielding												228		
Interim Contractor Support									200			269		
ECO									178			95		
Data/Technical Pubs									74			39		
Testing									195			202		
Facilitization									2015					
TOTAL									6262			7145		

Exhibit P-5a, Budget Procurement History and Planning

Date: February 1999

Appropriation / Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment
 Weapon System Type:
 P-1 Line Item Nomenclature: LIGHTWEIGHT LASER DESIGNATOR / RANGEFINDER (LLDR) (K31100)

WBS Cost Elements: Fiscal Years	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY Each	Unit Cost \$000	Specs Avail Now?	Date Revsn Avail	RFP Issue Date
K31100 AN/PED-1 LLDR FY 00 FY 01	Litton Laser, Apopka, FL Litton Laser, Apopka, FL	SS/FP SS/FP	CECOM CECOM	Mar-00 Jan-01	Apr-01 Oct-01	14 32	219 181	Yes		

REMARKS:

FY 00 / FY 01 BUDGET PRODUCTION SCHEDULE							P-1 Item Nomenclature: LIGHTWEIGHT LASER DESIGNATOR / RANGEFINDER (LLDR) (K31100)													Date: February 1999										
COST ELEMENTS	MFR	FY	SERV	PROC QTY Each	ACCEP. PRIOR TO 1 OCT	BAL DUE AS OF 1 OCT	Fiscal Year 00												Fiscal Year 01					L A T E R						
							Calendar Year 00												Calendar Year 01											
							OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB		MAR	APR	MAY	JUN	JUL	AUG
K31100 AN/PED-1 LLDR																														
	1	FY 00	A	14	0	14																								
	1	FY 01	A	32	0	32																				32				
	1	FY 01	M	62	0	62																				62				
							OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MFR	PRODUCTION RATES				REACHED	MFR Number	ADMIN LEAD TIME		MFR	TOTAL	REMARKS																			
	NAME / LOCATION	MIN.	1-8-5	MAX.	D +		Prior 1 Oct.	After 1 Oct.	After 1 Oct.	After 1 Oct.	USMC Production funding identified in POM starting in FY 2001.																			
1	TBS	6	12	20		1	INITIAL	00	6	5	13	18																		
							REORDER	01	1	3	9	12																		
							INITIAL																							
							REORDER																							
							INITIAL																							
							REORDER																							
							INITIAL																							
							REORDER																							
							INITIAL																							
							REORDER																							

FY 00 / FY 01 BUDGET PRODUCTION SCHEDULE

P-1 Item Nomenclature:
LIGHTWEIGHT LASER DESIGNATOR / RANGEFINDER (LLDR) (K31100)

Date:
February 1999

COST ELEMENTS	MFR	FY	SERV	PROC QTY Each	ACCEP. PRIOR TO 1 OCT	BAL DUE AS OF 1 OCT	Fiscal Year 02												Fiscal Year 03												L A T E R
							Calendar Year 02												Calendar Year 03												
							O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	
							C	O	E	A	E	A	P	A	U	U	U	E	C	O	E	A	E	A	P	A	U	U	U	E	
K31100 AN/PED-1 LLDR																															
	1	FY 00	A	14	14																										
	1	FY 01	A	32	0	32	2	2	2	2	3	3	3	3	3	3	3	3													
	1	FY 01	M	62	0	62	3	3	4	5	5	6	6	6	6	6	6	6													

MFR	NAME / LOCATION	PRODUCTION RATES			REACHED D +	MFR Number	ADMIN LEAD TIME		MFR After 1 Oct.	TOTAL After 1 Oct.	REMARKS	
		MIN.	1-8-5	MAX.			Prior 1 Oct.	After 1 Oct.				
1	TBS	6	12	20		1	INITIAL 00	6	5	13	18	USMC PRODUCTION FUNDING IDENTIFIED IN POM STARTING IN FY 2001.
							REORDER 01	1	3	9	12	
							INITIAL					
							REORDER					
							INITIAL					
							REORDER					
							INITIAL					
							REORDER					
							INITIAL					
							REORDER					

Exhibit P-40, Budget Item Justification Sheet

Date:

February 1999

Appropriation / Budget Activity/Serial No:

OTHER PROCUREMENT / 2 / Communications and Electronics Equipment

P-1 Item Nomenclature:

COMPUTER BALLISTICS: MORTAR M-30 (K99200)

Program Elements for Code B Items:

64802/D613

Code:

B

Other Related Program Elements:

	Prior Years	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	To Complete	Total Prog
Proc Qty	3588	232				73	135					4028
Gross Cost	31.8	6.8	0.0	0.0	2.9	1.7	2.9	0.0	0.0	0.0	0.0	46.0
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	31.8	6.8	0.0	0.0	2.9	1.7	2.9	0.0	0.0	0.0	0.0	46.0
Initial Spares												
Total Proc Cost	31.8	6.8	0.0	0.0	2.9	1.7	2.9	0.0	0.0	0.0	0.0	46.0
Flyaway U/C												
Wpn Sys Proc U/C												

DESCRIPTION:

The Mortar Ballistic Computer (MBC) calculates ballistic trajectories and gives the mortar user data to elevate gun, set charge, and direct fire for all mortar rounds. The MBC provides digital message capability and mortar firing computations. The MBC will interface with the Advanced Field Artillery Tactical Data System (AFATDS) to improve required response time and first round accuracy for mortar fire. The hardware is a ruggedized hand held computer which weighs less than six pounds (8.9 Lbs with case, carrying straps and batteries).

JUSTIFICATION:

The current M23 MBC is not supportable in the field due to components no longer being available/procureable. Also, the current requirements exceed the memory capacity of the M23. It does not support projected mortar ammunition items. The improved MBC will be capable of accepting software upgrades electronically, thus reducing the time and cost currently required to apply software upgrades via a hardware change to each fielded unit.

The FY2000 program funds a pre-planned improvement to bring the M30 into compliance with the Joint Technical Architecture (Army) JTA-A.

IDENT CODE: B, TC-LRP MAR 96; TDP Avail - FEB 97; TC STD MAY 99

Exhibit P-40, Budget Item Justification Sheet

Date: February 1999

Appropriation / Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment
 P-1 Item Nomenclature: MORTAR FIRE CONTROL SYSTEM (K99300)

Program Elements for Code B Items: 64802/D613
 Code: B
 Other Related Program Elements:

	Prior Years	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	To Complete	Total Prog
Proc Qty					15	37	168	170	168	171		729
Gross Cost	0.0	0.0	0.0	0.0	3.8	12.5	35.7	35.5	38.6	39.0	0.0	165.2
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	0.0	0.0	0.0	0.0	3.8	12.5	35.7	35.5	38.6	39.0	0.0	165.2
Initial Spares												
Total Proc Cost	0.0	0.0	0.0	0.0	3.8	12.5	35.7	35.5	38.6	39.0	0.0	165.2
Flyaway U/C												
Wpn Sys Proc U/C												

DESCRIPTION:
 The digital Mortar Fire Control System (MFCS) is a revolutionary improvement in mortar capability, seamlessly linking mortar fires in the future digital battlefield. MFCS allows mortar platoons to maintain TEMPO by providing digitally linked responsive, accurate fire support to maneuver battalions. MFCS dramatically increases survivability with setup times going from 8 minutes to 1 minute, soldiers not having to dismount, semi-autonomous operations and a shoot and scoot capability similar to Paladin. MFCS significantly reduces the probability of fratricide through situational awareness. MFCS maximizes the lethality of the battalion commander's organic 120mm mortars by reducing the circular error probability (CEP) from 230 meters for the current aiming circle to 60 meters. The MFCS is fully compatible with the Advanced Field Artillery Tactical Data System (AFATDS) and links mortars, for the first time, to digital fire support planning and execution by the fire control officer.

JUSTIFICATION:
 MFCS is an integral part of Force XXI digitization/modernization. The new Heavy Division Redesign reduces the organic mortar platoon from six guns and two fire direction centers(FDC) to four guns and one FDC. MFCS allows the army to reduce these resources without losing combat power. The FY00 funding provides for 12 Gun units and 3 fire control centers to field on brigade in the first digitized division. FY01 funding provides for 30 Gun units and 7 fire control centers to field on brigade in the first digitized division.

Type Classification date: 3Q 00
 Acquisition Manager: PM MORTARS

Exhibit P-5, Weapon OPA Cost Analysis		Appropriation/ Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment			P-1 Line Item Nomenclature: MORTAR FIRE CONTROL SYSTEM (K99300)			Weapon System Type: 120mm & 81mm Mortars			Date: February 1999			
OPA Cost Elements		ID	FY 98			FY 99			FY 00			FY 01		
		CD	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
			\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000
Heavy Gun									2124	12	177	5404	30	180
Heavy FDC									262	3	87	623	7	89
Contractor Logistic Support									380			386		
SUBTOTAL									2766			6412		
PROCUREMENT SUPPORT														
Engineering Support									250			2761		
Post Deployment Software Support												1221		
Proof and Acceptance									13			32		
Fielding and NET												30		
SUBTOTAL									263			4044		
NON RECURRING COSTS														
First Article Tests									530			787		
Engineering Data									181			206		
Manuals												250		
Other Non-Recurring Engineering												794		
SUBTOTAL									711			2037		
TOTAL P-1 LINE									3740			12493		

Exhibit P-5a, Budget Procurement History and Planning

Date: February 1999

Appropriation / Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment		Weapon System Type:			P-1 Line Item Nomenclature: MORTAR FIRE CONTROL SYSTEM (K99300)					
WBS Cost Elements: Fiscal Years	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY Each	Unit Cost \$000	Specs Avail Now?	Date Revsn Avail	RFP Issue Date
Heavy Gun										
FY 00	AlliedSignal Corp Teterboro NJ	OPT	TACOM	Apr-00	Jun-01	12	177	no	Mar00	Mar-00
FY 01	AlliedSignal Corp Teterboro NJ	OPT	TACOM	Jan-01	Mar-02	30	180	no	Mar00	Oct-00
Heavy FDC										
FY 00	AlliedSignal Corp Teterboro NJ	OPT	TACOM	Apr-00	Aug-01	3	87	no	Mar00	Mar-00
FY 01	AlliedSignal Corp Teterboro NJ	OPT	TACOM	Jan-01	Mar-02	7	89	no	Mar00	Oct-00

REMARKS: FY00 & FY01 production contracts are options to the development contract.

FY 00 / 01 BUDGET PRODUCTION SCHEDULE							P-1 Item Nomenclature: MORTAR FIRE CONTROL SYSTEM (K99300)													Date: February 1999											
COST ELEMENTS	MFR	FY	SERV	PROC QTY Each	ACCEP. PRIOR TO 1 OCT	BAL DUE AS OF 1 OCT	Fiscal Year 00												Fiscal Year 01												L A T E R
							Calendar Year 00												Calendar Year 01												
							OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	
Heavy Gun																															
	1	FY 00	A	12	0	12																									
	1	FY 01	A	30	0	30																									
Heavy FDC																															
	1	FY 00	A	3	0	3																									
	1	FY 01	A	7	0	7																									

MFR	NAME / LOCATION	PRODUCTION RATES			REACHED D +	MFR Number	ADMIN LEAD TIME		MFR After 1 Oct.	TOTAL After 1 Oct.	REMARKS	
		MIN.	1-8-5	MAX.			Prior 1 Oct.	After 1 Oct.				
1	AlliedSignal Corp Teterboro NJ	5	15	30		1	INITIAL	6	6	15	21	
							REORDER	3	4	15	19	
							INITIAL					
							REORDER					
							INITIAL					
							REORDER					
							INITIAL					
							REORDER					
							INITIAL					
							REORDER					

Exhibit P-40, Budget Item Justification Sheet

Date: February 1999

Appropriation / Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment
 P-1 Item Nomenclature: INTEGRATED MET SYS SENSORS (IMETS) - TIA (BW0021)

Program Elements for Code B Items: Code: Other Related Program Elements:

	Prior Years	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	To Complete	Total Prog
Proc Qty	18	5			7	89	21					140
Gross Cost	18.3	3.1	1.3	4.9	5.5	7.1	1.0	0.0	0.0	0.0	0.0	41.2
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	18.3	3.1	1.3	4.9	5.5	7.1	1.0	0.0	0.0	0.0	0.0	41.2
Initial Spares	0.7											0.7
Total Proc Cost	19.0	3.1	1.3	4.9	5.5	7.1	1.0	0.0	0.0	0.0	0.0	41.9
Flyaway U/C												
Wpn Sys Proc U/C												

DESCRIPTION: IMETS is a mobile tactical automated weather data receiving, processing, and dissemination system designed to provide timely weather and environmental effects forecasts, observations, and decision aid support to the Army. The IMETS is an Army-furnished system consisting of a standard shelter and vehicle, Army Tactical Command and Control System (ATCCS) common hardware/software (CHS), and communications that will be operated by Air Force weather personnel and maintained within planned Army support for systems and components IAW AR 115-10/AFR 105-3. IMETS is deployed at Echelons Above Corps (EAC), Corps, Division (DIV), Separate Brigade, Armored Cavalry Regiment (ACR) and Special Operations Forces (SOF). Standard Integrated Command Post Shelters (SICPS) mounted on High Mobility Multi-Purpose Wheeled Vehicles (HMMWV) (heavy) house the IMETS. Each IMETS is configured identically and is capable of performing the following functions: (1) receive weather data from all available sources: weather satellites; local and remote weather sensors at higher, lower and adjacent echelon IMETS; weather radar; artillery meteorology sections (ARTYMET); theater forecast units (TFUs) and USAF Global Weather Central; (2) process and display weather information, display weather radar data, display weather satellite data and imagery, and generate Tactical Decision Aids; (3) disseminate weather data, forecasts, and Tactical Decision Aids via area communications system, to all users and to other IMETS at higher, lower and adjacent echelons; (4) operate independently using High Frequency receivers, satellites, or communications networks as appropriate; and (5) relocate with the unit to which it is assigned. Planned Block II fieldings in FY98 and FY99 were deferred to FY00 so that the fielded Block I systems could be updated to the Y2K compliant Block II IMETS. This program redirection will result in the acceleration of the Block I Upgrade and the fielding of 27 IMETS systems one year ahead of schedule.

JUSTIFICATION: FY00 completes the fielding of 27 vehicle mounted systems. FY01 initiates the procurement and fielding of the Lap Top Processor.

IDENTIFICATION CODE: A

Exhibit P-5, Weapon OPA Cost Analysis		Appropriation/ Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment			P-1 Line Item Nomenclature: INTEGRATED MET SYS SENSORS (IMETS) - TIA (BW0021)			Weapon System Type:			Date: February 1999			
OPA Cost Elements		ID	FY 98			FY 99			FY 00			FY 01		
		CD	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
			\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000
1. Hardware		A												
Block II IMETS			167	*	VAR				1810	7	259	3560	89	40
Block II IMETS Y2K Compliant						1225	*	VAR						
2. Project Management Administration			280			450			300			300		
3. Engineering Support			682			2330			2377			2363		
4. Interim Contractor Support			120			247			240			127		
5. Fielding			80			624			742			719		
TOTAL			1329			4876		VAR	5469			7069		
* Accelerated Upgrade of Fielded IMETS to Y2K Compliant Block II Configuration along with Planned Procurement														

Exhibit P-5a, Budget Procurement History and Planning

Date: February 1999

Appropriation / Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment		Weapon System Type:			P-1 Line Item Nomenclature: INTEGRATED MET SYS SENSORS (IMETS) - TIA (BW0021)						
WBS Cost Elements: Fiscal Years	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY Each	Unit Cost \$000	Specs Avail Now?	Date Revsn Avail	RFP Issue Date	
Block II IMETS											
FY 98	GTE, Taunton, MA	C/Option	CECOM	Dec-97	May-98	*	VAR	N/A	N/A	N/A	
FY00	GTE, Taunton, MA	C/Option	CECOM	Nov-99	May-00	7	259	N/A	N/A	N/A	
FY01 (Laptop Processor)	TBS	TBD	CECOM	Oct-00	TBD	89	40	N/A	N/A	N/A	
Block II IMETS Y2K Compliant											
FY99	GTE, Taunton, MA	C/Option	CECOM	Dec-98	Jul-99	*	VAR	N/A	N/A	N/A	

REMARKS: All IMETS equipment and software is NDI/COTS purchased through the PM CHS or other Army activities, with Logicon RDA as the Integration Contractor.
* IMETS Procurement Quantity and Cost Vary by System, Y2K Upgrade Vice Block II System.

Exhibit P-40, Budget Item Justification Sheet

Date: February 1999

Appropriation / Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment
 P-1 Item Nomenclature: TACTICAL OPERATIONS CENTERS (BZ9865)

Program Elements for Code B Items: Code: Other Related Program Elements:

	Prior Years	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	To Complete	Total Prog
Proc Qty												
Gross Cost	0.0	0.0	0.0	26.6	28.1	27.0	29.6	32.6	0.0	0.0	0.0	143.9
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	0.0	0.0	0.0	26.6	28.1	27.0	29.6	32.6	0.0	0.0	0.0	143.9
Initial Spares												
Total Proc Cost	0.0	0.0	0.0	26.6	28.1	27.0	29.6	32.6	0.0	0.0	0.0	143.9
Flyaway U/C												
Wpn Sys Proc U/C												

DESCRIPTION:
 Army TOCs are the automated facilities where commanders will plan, control, maintain situational awareness, and execute battle command. For the Digitized Army, TOCs will incorporate Army Battle Command Systems (GCCS-A, five ATCCS systems, and Force XXI Battle Command - Brigade and Below (FBCB2)) providing the framework for the digitized battlefield, fully integrated and digitally linked Battlefield Operating Systems (BOSs), and the requirements mandated by the Army Technical Architecture (ATA) and the Defense Information Infrastructure (DII) Common Operating Environment (COE). A standard/common TOC operational architecture and system architecture tailored to the echelon of command and mission area will be developed to assure interoperability and commonality.

JUSTIFICATION:
 The Army TOC Program will provide centrally funded TOCs for the First Digitized Division and support warfighting customer initiatives. Army TOCs will ensure the objectives of standardization and interoperability across forces by developing and fielding operationally effective and supportable integrated, digitized tactical operational centers that satisfy the functional information requirements of commanders and staffs at all echelons of command. FY 00-01 dollars will be used to procure integration hardware, integration services, and fielding for TOCs. Army TOCs are the C2 nodes which will, for the first time, provide a digital information-based operation to plan, control, and dynamically update in real time as the situation evolves/changes. The Army TOC Program is critical to the success of Army Digitization Modernization and to provide warfighters with the tools to win the information war.

Exhibit P-5, Weapon OPA Cost Analysis		Appropriation/ Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment			P-1 Line Item Nomenclature: TACTICAL OPERATIONS CENTERS (BZ9865)			Weapon System Type:			Date: February 1999			
OPA Cost Elements		ID	FY 98			FY 99			FY 00			FY 01		
		CD	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
			\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000
1. System Integration/Hardware*						20425	11	1857	21446	16	1340	22083	16	1380
2. Fielding						2750			2993			2205		
3. Project Management Administration						1990			2063			1520		
4. Engineering Support						1465			1596			1176		
TOTAL						26630			28098			26984		
<p>NOTE: SOURCE SELECTION EVALUATION IS CURRENTLY ONGOING, THEREFORE, FUNDING BREAKOUTS AND ALL POTENTIAL COST INFORMATION IS TENTATIVE AND IS CLASSIFIED "COMPETITION SENSITIVE"</p>														

Exhibit P-5a, Budget Procurement History and Planning

Date: February 1999

Appropriation / Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment
 Weapon System Type:
 P-1 Line Item Nomenclature: TACTICAL OPERATIONS CENTERS (BZ9865)

WBS Cost Elements: Fiscal Years	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY Each	Unit Cost \$000	Specs Avail Now?	Date Revsn Avail	RFP Issue Date
System Integration										
FY 1999	TBS	TBS	AMCOM	2QFY99	4QFY99	11	1857	YES		
FY 2000	TBS	TBS	AMCOM	1QFY00	3QFY00	16	1340	YES		
FY 2001	TBS	TBS	AMCOM	1QFY01	3QFY01	16	1380	YES		

REMARKS: SOURCE SELECTION EVALUATION IS CURRENTLY ONGOING; THEREFORE, FUNDING BREAKOUTS AND ALL POTENTIAL COST INFORMATION IS CLASSIFIED "COMPETITION SENSITIVE"

Exhibit P-40, Budget Item Justification Sheet

Date: February 1999

Appropriation / Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment
 P-1 Item Nomenclature: ADV FIELD ARTILLERY TACT DATA SYS (AFATD (B28600))

Program Elements for Code B Items: Code: Other Related Program Elements:

	Prior Years	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	To Complete	Total Prog
Proc Qty	493	291	245	260	456	468	347	447	398	437	514	4356
Gross Cost	105.4	37.0	35.0	36.1	43.3	48.8	49.6	49.7	49.6	51.3	95.0	600.8
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	105.4	37.0	35.0	36.1	43.3	48.8	49.6	49.7	49.6	51.3	95.0	600.8
Initial Spares	0.3	2.1	1.6	3.3	2.7	2.7	2.8	2.6	2.6	3.1	2.7	26.5
Total Proc Cost	105.7	39.1	36.6	39.4	46.0	51.5	52.4	52.3	52.2	54.4	97.7	627.3
Flyaway U/C	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Wpn Sys Proc U/C	0.2	0.1	.1	.1	.1	.1	.2	.1	.1	.1	.2	.1

AFATDS is a single integrated battlefield management and decision support system. It will function in the digital battlefield at Firing Platoon through Echelons Above Corps as one of the five automated systems of the Army Battlefield Control Systems (ABCS). AFATDS will be the Fire Support node of the ABCS providing all 27 Fire Support functions, including Fire Support Execution, Fire Support Planning, Movement Control, Field Artillery Mission Planning and Field Artillery Fire Direction Operations. AFATDS will utilize the Army Common Operating Environment architecture and will interface with subsystems subordinate to AFATDS and other ABCS systems via standard communications available to the force.

AFATDS utilizes Common Hardware Software components including the UltraSPARC Computer Unit (UCU), Compact Computer Unit (CCU) and Notebook Computer Unit (NCU), with associated peripheral devices such as printers, modems and external display devices. Responsiveness, survivability and continuity of operations will be enhanced by dispersed processing centers, intelligent remote terminals, a distributed data base and distributed operations. AFATDS will interface with all functional control elements of existing and future Army Fire Support Systems including the other ABCS systems, other services employing Fire Support Joint Interoperability message standards and Allied Forces using NATO Fire Support Standards.

Justification: AFATDS will greatly enhance the fire support capability of the battlefield through responsiveness, survivability and continuity of operations. It will provide a complete fire control command and control capability to the commander. FY00 will procure 3 Field Artillery Brigades, 1 Heavy Division, 1 Armored Cavalry Regiment and will backfill the Independent User Center requirements in previously fielded units. FY01 will procure 5 FAB, 1 Heavy Division, 2 Advance Positioned Sets and 1 Separate Infantry Brigade.

Exhibit P-5, Weapon OPA Cost Analysis		Appropriation/ Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment			P-1 Line Item Nomenclature: ADV FIELD ARTILLERY TACT DATA SYS (AFATD (B28600))			Weapon System Type:			Date: February 1999			
OPA Cost Elements		ID	FY 98			FY 99			FY 00			FY 01		
		CD	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
			\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000
Hardware		A	19464	245	79	17800	260	68	23692	456	52	27694	468	59
Program Management Administration			2114			2583			2627			2675		
Engineering Support			3985			4376			4422			4415		
Interim Contractor Support			3585			5264			5289			5668		
Fielding														
Total Package Fielding			1536			1856			2443			2626		
New Equipment Training			2930			4262			4870			5672		
BCD Support			1340											
TOTAL			34954			36141			43343			48750		

Exhibit P-5a, Budget Procurement History and Planning

Date: February 1999

Appropriation / Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics
 Equipment

Weapon System Type: P-1 Line Item Nomenclature: ADV FIELD ARTILLERY TACT DATA SYS (AFATDS) (B28600)

WBS Cost Elements: Fiscal Years	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY Each	Unit Cost \$000	Specs Avail Now?	Date Revsn Avail	RFP Issue Date
FY98:										
UCU	GTE, Taunton, MA	C/OPTION	CECOM	Jan-98	May-98	245	79	yes		
IK	TYAD, Tobyhanna, PA	C/OPTION	CECOM	Jan-98	Jun-98	54	15	yes		
FY99:										
UCU	GTE, Taunton, MA	C/OPTION	CECOM	Jan-99	May-99	69	82	yes		
UCU V1 (Commercial level)	GTE, Taunton, MA	C/OPTION	CECOM	Jan-99	May-99	48	40	yes		
CCU	GTE, Taunton, MA	C/OPTION	CECOM	Jan-99	May-99	143	60	yes		
LCU Upgrades	Litton, San Diego, CA	C/OPTION	CECOM	Jan-99	Jun-99	45	5	yes		
IK	TYAD, Tobyhanna, PA	C/OPTION	CECOM	Jan-99	Jun-99	85	17	yes		
FY00:										
UCU	GTE, Taunton, MA	C/OPTION	CECOM	Jan-00	May-00	138	82	yes		
CCU	GTE, Taunton, MA	C/OPTION	CECOM	Jan-00	May-00	108	60	yes		
NCU	GTE, Taunton, MA	C/OPTION	CECOM	Jan-00	May-00	210	20	yes		
LCU Upgrades	Litton, San Diego, CA	C/OPTION	CECOM	Jan-00	Jun-00	118	5	yes		
IK	TYAD, Tobyhanna PA	C/OPTION	CECOM	Jan-00	Jun-00	68	17	yes		
FY01:										
UCU	GTE, Taunton, MA	C/OPTION	CECOM	Jan-01	May-01	158	89	yes		
CCU	GTE, Taunton, MA	C/OPTION	CECOM	Jan-01	May-01	132	60	yes		
NCU	GTE, Taunton, MA	C/OPTION	CECOM	Jan-01	May-01	70	21	yes		
IK	TYAD, Tobyhanna, PA	C/OPTION	CECOM	Jan-01	Jun-01	125	17	yes		

REMARKS: The UCU, CCU, NCU and LCU Upgrade Kits are commercial off the shelf hardware being procured off the Common Hardware Software contract. IK consists of the Commanders Vehicle and FISTV Installation LCU Upgrades reflect additional components required to upgrade existing LCU workstations which will provide AFATDS functionality within the BFIST. LCUs are supplied to the BFIST program through FY01. After FY01, BFIST will utilize the NCU. An allowance for tech insertion is provided in FY01 to allow for upgrade of fielded hardware to meet future tech upgrades. Above qtys reflect items required to equip units identified on P40

Exhibit P-40, Budget Item Justification Sheet

Date: February 1999

Appropriation / Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment
 P-1 Item Nomenclature: FIRE SUPPORT ADA CONVERSION (B78400)

Program Elements for Code B Items: Code: Other Related Program Elements:

	Prior Years	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	To Complete	Total Prog
Proc Qty												
Gross Cost	282.6	2.1	2.9	0.0	1.0	1.0	1.0	1.0	1.0	1.0	0.0	293.6
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	282.6	2.1	2.9	0.0	1.0	1.0	1.0	1.0	1.0	1.0	0.0	293.6
Initial Spares												
Total Proc Cost	282.6	2.1	2.9	0.0	1.0	1.0	1.0	1.0	1.0	1.0	0.0	293.6
Flyaway U/C												
Wpn Sys Proc U/C												

The Fire Support Ada Conversion (FSAC) is composed of two software programs to provide Command and Control at Corps through platoon level for Multiple Launch Rockets Systems (MLRS) and for tactical fire control for cannon units at platoon and battery levels. FSAC fieldings were completed in May 96. FSAC program funding in the outyears provides for Package 11 upgrades, maintenance of equipment, and future hardware upgrades to maintain technical capabilities.

On 21 April 1995, ODCSOPS further directed PM FATDS to initiate the Lightweight Forward Entry Device (LFED) program with the FSAC funding line. The LFED is a hand held programmable input/output unit used for composing, editing, transmitting, receiving and displaying alphanumeric and graphic messages for transmission over standard military radios.

Justification:
 Funding in program outyears will procure various hardware upgrades to maintain technical capacity to support future software requirements.

Exhibit P-40, Budget Item Justification Sheet

Date: February 1999

Appropriation / Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment
 P-1 Item Nomenclature: CMBT SVC SUPT CONTROL SYS (CSSCS) (W34600)

Program Elements for Code B Items: Code: Other Related Program Elements:

	Prior Years	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	To Complete	Total Prog
Proc Qty	111	54	56	105	270	320	217	388	217	228	1115	3081
Gross Cost	10.5	5.8	6.6	9.3	19.9	18.1	15.5	25.4	13.9	18.4	57.4	200.8
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	10.5	5.8	6.6	9.3	19.9	18.1	15.5	25.4	13.9	18.4	57.4	200.8
Initial Spares	0.4	0.8	0.3	0.2	0.2	0.2	0.2	0.2	0.2		5.7	8.4
Total Proc Cost	10.9	6.6	6.9	9.5	20.1	18.3	15.7	25.6	14.1	18.4	63.1	209.2

The Combat Service Support Control System is an automated command and control (C2) system that supports the CSS component of the Army Battle Command System (ABCS), and provides a critical logistical C2 capability for the Army's Force XXI. It will automate the current manual processes of force level planning and decision-making for commanders and their staffs. CSSCS interoperates both vertically, within the CSS Battlefield Functional Area (BFA), as well as horizontally with other BFA's; namely, Fire Support, Maneuver Control, Intelligence/Electronic Warfare, and Air Defense. CSSCS implements functionally through use of Common Hardware and Software (CHS), Common Operating Environment (COE), reuse software, and unique application software. The total OPA requirement for CSSCS is 3,081 systems.

JUSTIFICATION: FY00/01 funds will support the procurement and fielding of the CSSCS in Full Scale Production. Fielding locations include XVIII Airborne Corps units, U.S. Army Europe (USAREUR) and the training base. This automated CSSCS node is required to support the fielding and operation of ABCS by providing a responsive automated CSS operation that is capable of supporting the Commander's requirement to perform timely predictive and situational analyses.

Exhibit P-5, Weapon OPA Cost Analysis		Appropriation/ Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment			P-1 Line Item Nomenclature: CMBT SVC SUPT CONTROL SYS (CSSCS) (W34600)			Weapon System Type:			Date: February 1999			
OPA Cost Elements		ID	FY 98			FY 99			FY 00			FY 01		
		CD	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
			\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000
High Capacity Computer Unit (HCU) HW			2629	56	47	5702	105	54	13554	270	50	7028	140	50
Small Capacity Unit (SCU) HW												4428	180	25
PM Admin			305			354			1083			1154		
Engineering Support			952			844			911			977		
Total Package Fielding (TPF)			975			1025			1852			1881		
New Equipment Training (NET)			1213			1135			1621			1694		
First Destination Trans (FDT)			51			66			547			653		
Interim Contractor Support (ICS)			261											
Other			262			180			354			275		
TOTAL			6648			9306			19922			18090		

Exhibit P-5a, Budget Procurement History and Planning

Date:
February 1999

Appropriation / Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment		Weapon System Type:			P-1 Line Item Nomenclature: CMBT SVC SUPT CONTROL SYS (CSSCS) (W34600)					
WBS Cost Elements: Fiscal Years	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY Each	Unit Cost \$000	Specs Avail Now?	Date Revsn Avail	RFP Issue Date
Hardware										
FY 98	GTE, Taunton, MA	C/Option	CECOM	Jan-98	May-98	56	47	Yes		
FY 99	GTE, Taunton, MA	C/Option	CECOM	Jan-99	May-99	105	54	Yes		
FY 00	GTE, Taunton, MA	C/Option	CECOM	Jan-00	May-00	270	50	Yes		
FY 01	TBD	TBD	CECOM	Jan-01	May-01	320	36	Yes		

REMARKS:

Exhibit P-40, Budget Item Justification Sheet

Date: February 1999

Appropriation / Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment
 P-1 Item Nomenclature: FAAD C2 (AD5050) /(BS9702)

Program Elements for Code B Items: Code: Other Related Program Elements:

	Prior Years	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	To Complete	Total Prog
Proc Qty *	5	3	1	2	2	2	2	2	3	3	18	43
Gross Cost	74.3	41.9	12.6	13.6	10.6	12.5	12.4	12.4	25.3	41.4	288.2	545.3
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	74.3	41.9	12.6	13.6	10.6	12.5	12.4	12.4	25.3	41.4	288.2	545.3
Initial Spares	4.9	1.2	1.2	0.8	0.4	0.4	0.3	0.4	1.9	2.0	10.9	24.4
Total Proc Cost	79.2	43.1	13.8	14.4	11.0	12.9	12.7	12.8	27.3	43.4	299.1	569.6
Flyaway U/C **	9.0	13.2	11.3	4.4	3.8	4.5	3.8	4.0	7.2	12.9	15.5	10.8
Wpn Sys Proc U/C **	9.9	14.4	13.8	7.2	5.5	6.5	6.4	6.4	9.1	14.5	17.6	12.7

DESCRIPTION: The Forward Area Air Defense Command and Control (FAAD C2) System is an automated system deployed with FAAD weapons to provide accurate and timely command, control, and targeting information for weapon systems. The system utilizes non-developmental item sensors (Light and Special Division Interim Sensor and/or Sentinel (Ground Based Sensor)), computers, displays, and interface hardware integrated with data communication equipment. It automates mission-related functions and uses the Single Channel Ground and Airborne Radio Systems (SINCGARS) for voice and the Army Data Distribution System (ADDS) for data. Limited production of the system was authorized in May 1993 and the first unit equipped was the 101st Airborne Divisions (Air Assault) in September 1993. Since this fielding occurred prior to the availability of the Enhanced Position Location Reporting System (EPLRS) portion of ADDS, additional SINCGARS radios were added to transmit data. On 1 March 1995, this program was designated an Acquisition Category 1C (ACAT 1C) from ACAT 1D by the Undersecretary of Defense for Acquisition and Technology. In April 1995 full scale production was approved and type classification was granted by the Army Acquisition Executive contingent on the Joint Requirements Oversight Council approval of the Operational Requirements Document; the approval was granted in June 1995.

JUSTIFICATION: FY 2000-FY 2001 dollars will be used to procure Common Hardware Software (CHS) computers, displays, software, and Joint Tactical Information Distribution Systems (JTIDS) to field heavy divisions and remaining units. FAAD C2 enables maneuver commanders to receive air attack warnings from Corps, Division, Brigade, and Battalion to the individual shooter. FAAD C2 also enables the alerting of air defense gunners, enhances capability for air space management, and automated uptell of acknowledgment of mission and unit position, ultimately enhancing protection to the Force.

* 2 additional prior years units procured during development for a total of 45 units.
 ** Does not include all SAR data; SAR includes FAADC2 and Sentinel (Ground Based Sensor)

Exhibit P-5, Weapon OPA Cost Analysis		Appropriation/ Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment			P-1 Line Item Nomenclature: FAAD C2 (AD5050)			Weapon System Type:			Date: February 1999			
OPA Cost Elements		ID	FY 98			FY 99			FY 00			FY 01		
		CD	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
			\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000
1. Hardware- (Combined CHS and JTIDS)* Tadil J Enhancement**			8336	1	8336	10245	2	5123	7559	2	3780	9457	2	4729
2. Project Management Administration			945			1017			795			940		
3. Fielding														
TPF			700			336			290			290		
NET			1538			735			835			880		
FDT			150			40			10			10		
4. Interim Contractor Support			387			250			250			250		
5. Engineering Support			536			933			855			710		
TOTAL			12592			13556			10594			12537		
<p>*QUANTITIES ARE BASED ON ORGANIZATIONAL UNITS THAT VARY IN SIZE BASED ON SPECIFIC MISSION AND EQUIPMENT REQUIREMENTS. QUANTITIES REPORTED REFLECT A COMPOSITE NUMBER OF SPECIFIC REQUIREMENTS (HEAVY DIV, LIGHT DIV, ARMORED CAVALRY REGIMENT, CORPS MISSILE BATTALION, TRAINING BASE, AND SPECIAL DIV).</p> <p>** 2 ADDITIONAL PRIOR YEAR UNITS PROCURED DURING DEVELOPMENT FOR A TOTAL OF 45 UNITS</p>														

Exhibit P-5a, Budget Procurement History and Planning

Date:
February 1999

Appropriation / Budget Activity/Serial No:
OTHER PROCUREMENT / 2 / Communications and Electronics
Equipment

Weapon System Type:

P-1 Line Item Nomenclature:
FAAD C2 (AD5050)

WBS Cost Elements: Fiscal Years	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY Each	Unit Cost \$000	Specs Avail Now?	Date Revsn Avail	RFP Issue Date
HARDWARE										
FY 1998	GTE, TAUNTON, MA	C/OPTION	CECOM	Dec-97	Apr-98	1	8336	YES		
FY 1999	GTE, TAUNTON, MA	C/OPTION	CECOM	Dec-98	Apr-99	2	5123	YES		
FY 2000	GTE, TAUNTON, MA	C/OPTION	CECOM	Dec-99	Apr-00	2	3780	YES		
FY 2001	GTE, TAUNTON, MA	C/OPTION	CECOM	Dec-00	Apr-01	2	4729	YES		

REMARKS:

Exhibit P-40, Budget Item Justification Sheet

Date: February 1999

Appropriation / Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment
 P-1 Item Nomenclature: FAADC2I MODIFICATIONS (AD5090)

Program Elements for Code B Items: Code: Other Related Program Elements:

	Prior Years	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	To Complete	Total Prog
Proc Qty												
Gross Cost	0.0	0.0	0.0	0.0	5.9	3.9	0.0	0.0	6.3	19.6	69.0	104.8
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	0.0	0.0	0.0	0.0	5.9	3.9	0.0	0.0	6.3	19.6	69.0	104.8
Initial Spares												
Total Proc Cost	0.0	0.0	0.0	0.0	5.9	3.9	0.0	0.0	6.3	19.6	69.0	104.8
Flyaway U/C												
Wpn Sys Proc U/C												

DESCRIPTION: The Forward Area Air Defense Command and Control (FAADC2) System is an automated system deployed with FAAD weapons to provide accurate and timely command, control, and targeting information for weapon systems. The system utilizes non-developmental item sensors (Light and Special Division Interim Sensor and/or Sentinel (Ground Based Sensor)), computers, displays, and interface hardware integrated with data communication equipment. It automates mission related functions and uses the Single Channel Ground and Airborne Radio Systems (SINCGARS) for voice and Army Data Distribution System (ADDS) for data. The FAADC2 System is a primary Force XXI automated system. It provides airspace situational awareness for friendly Aviation C2, ADA early warning and weapons system cueing, reduced fratricide, Joint and Combined force situational awareness. FAADC2 achieves a correlated sensor fusion of Sentinel and AWACS.

JUSTIFICATION: Initial fieldings of FAADC2 to units used CHS-1 equipment from Program Manager, Common Hardware/Software (PM CHS). PM CHS has since moved from CHS-1 to CHS-2 equipment. Hence, FAADC2 redesigned code and planned future software upgrades based on CHS-2 equipment. This funding allows fielding of increased functionality and supportable hardware to initially fielded high DAMPL units. Specifically, FY00-01 funding procures and fields rebuys of CHS-2 workstations and handheld computers for the first five fielded units (101st AASLT Div, 1st Cav Div, 2d Inf Div, 10th Mtn Div, and 3d Inf Div). CHS-1 equipment becomes unsupportable in the FY 99 time frame. This funding reduces support costs by providing common hardware suites to all fielded units. This is not a new start, previously funded under AD5050.

Exhibit P-40M Budget Item Justification Sheet

Date
February 1999

Appropriation / Budget Activity/Serial No. OTHER PROCUREMENT / 2 / Communications and Electronics Equipment
P-1 Item Nomenclature FAADC2I MODIFICATIONS (AD5090)

Program Elements for Code B Items Code Other Related Program Elements
AD 5050

Description		Fiscal Years									
OSIP NO.	Classification	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	TC	Total

CHS-2 Upgrades												
	Operational	0.0	0.0	5.9	3.9	0.0	0.0	6.3	19.6	69.1	104.8	
Totals		0.0	0.0	5.9	3.9	0.0	0.0	6.3	19.6	69.1	104.8	

INDIVIDUAL MODIFICATION

Date February 1999

MODIFICATION TITLE: CHS-2 Upgrades

MODELS OF SYSTEMS AFFECTED: N/A

DESCRIPTION / JUSTIFICATION:

Procures Common Hardware Software (CHS) computers, displays, software and ancillary equipment to upgrade non-supportable CHS-1 to CHS-2.

DEVELOPMENT STATUS / MAJOR DEVELOPMENT MILESTONES:

N/A

Installation Schedule:

Pr Yr	FY 1999				FY 2000				FY 2001				FY 2002				FY 2003					
	Totals	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	
Inputs																						
Outputs																						

	FY 2004				FY 2005				FY 2006				FY 2007				To Complete	Totals				
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4						
Inputs																						
Outputs																						

METHOD OF IMPLEMENTATION: ADMINISTRATIVE LEADTIME: 3 Months PRODUCTION LEADTIME: 12 Months
 Contract Dates: FY 1999 N/A FY 2000 Dec 99 FY 2001 Dec 00
 Delivery Date: FY 1999 N/A FY 2000 Apr 00 FY 2001 Apr 01

INDIVIDUAL MODIFICATION

Date February 1999

MODIFICATION TITLE (Cont): CHS-2 Upgrades

FINANCIAL PLAN: (\$ in Millions)

	FY 1998 and Prior		FY 1999		FY 2000		FY 2001		FY 2002		FY 2003		FY 2004		FY 2005		TC		TOTAL		
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	
RDT&E																					
PROCUREMENT																					
Kit Quantity																					
Installation Kits																					
Installation Kits, Nonrecurring																					
Equipment																					
Equipment, Nonrecurring						5.9		3.9					6.3		19.6		69.1			104.8	
Engineering Change Orders																					
Data																					
Training Equipment																					
Support Equipment																					
Other-Spares																					
Interim Contractor Support																					
Installation of Hardware																					
FY 1998 & Prior Eqpt -- Kits																					
FY 1999 Eqpt -- Kits																					
FY 2000 Eqpt -- Kits																					
FY 2001 Eqpt -- Kits																					
FY 2002 Eqpt -- kits																					
FY 2003 Eqpt -- kits																					
FY 2004 Eqpt -- kits																					
FY 2005 Eqpt -- kits																					
TC Equip-Kits																					
Total Installment																					
Total Procurement Cost						5.9		3.9					6.3		19.6		69.1			104.8	

Exhibit P-40, Budget Item Justification Sheet

Date: February 1999

Appropriation / Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment
 P-1 Item Nomenclature: AIR & MSL DEFENSE PLANNING & CTRL SYS (AMDPCS)(AD5070)

Program Elements for Code B Items: Code: Other Related Program Elements:

	Prior Years	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	To Complete	Total Prog
Proc Qty												
Gross Cost	0.0	0.0	0.0	0.0	2.9	4.9	6.4	6.4	6.3	6.4	0.0	33.4
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	0.0	0.0	0.0	0.0	2.9	4.9	6.4	6.4	6.3	6.4	0.0	33.4
Initial Spares												
Total Proc Cost	0.0	0.0	0.0	0.0	2.9	4.9	6.4	6.4	6.3	6.4	0.0	33.4
Flyaway U/C												
Wpn Sys Proc U/C												

DESCRIPTION: The Air/Missile Defense Planning and Control System (AMDPCS) provides air defense command and control capability to Air Defense Artillery (ADA) Brigades, the Army Air and Missile Defense Command (AAMDC), Corps and above headquarters, and joint force command and control elements, such as the Battlefield Coordination Detachment (BCD). It provides ADA Brigades with a Fire Control System (FCS) for monitoring and controlling subordinate battalions and provides the Air and Missile Defense Workstation (AMDWS) a common defense planning and situational awareness tool, to be fielded to all air and missile defense units at all echelons of command (battery through theater).

JUSTIFICATION: FY 2000-2001 dollars will be used to procure computer hardware and software and ancillary equipment to field to units. This is not a new start, previously funded under AD5050.

Exhibit P-5, Weapon OPA Cost Analysis		Appropriation/ Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment			P-1 Line Item Nomenclature: AIR & MSL DEFENSE PLANNING & CTRL SYS (AMDPCS) (AD5070)			Weapon System Type:			Date: February 1999			
OPA Cost Elements		ID	FY 98			FY 99			FY 00			FY 01		
		CD	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
			\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000
1. System Integration/Hardware									2249	1	2249	3744	1	3744
2. Fielding									240			400		
3. Project Management Administration									240			400		
4. Engineering Support									150			250		
5. ICS									60			100		
TOTAL									2939			4894		

Exhibit P-5a, Budget Procurement History and Planning

Date: February 1999

Appropriation / Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment
 Weapon System Type:
 P-1 Line Item Nomenclature: AIR & MSL DEFENSE PLANNING & CTRL SYS (AMC PCS) (AD5070)

WBS Cost Elements: Fiscal Years	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY Each	Unit Cost \$000	Specs Avail Now?	Date Revsn Avail	RFP Issue Date
FY 2000	TBS	TBS	AMCOM	1QFY00	4QFY00	1	2249	NO		
FY 2001	TBS	TBS	AMCOM	1QFY01	4QFY01	1	3744	NO		

REMARKS:

Exhibit P-40, Budget Item Justification Sheet

Date: February 1999

Appropriation / Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment
 P-1 Item Nomenclature: FORWARD ENTRY DEVICE (FED) (BZ9851)

Program Elements for Code B Items: Code: Other Related Program Elements:

	Prior Years	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	To Complete	Total Prog
Proc Qty												
Gross Cost	87.9	10.0	2.3	25.0	15.8	15.9	15.8	14.3	0.0	0.0	0.0	187.1
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	87.9	10.0	2.3	25.0	15.8	15.9	15.8	14.3	0.0	0.0	0.0	187.1
Initial Spares												
Total Proc Cost	87.9	10.0	2.3	25.0	15.8	15.9	15.8	14.3	0.0	0.0	0.0	187.1
Flyaway U/C												
Wpn Sys Proc U/C												

The Forward Entry Device (FED) is an integral part of the digitized fire support system architecture. The FED provides the vital sensor to shooter link required for effective fires. The FED also provides critical situation awareness for forward deployed field artillery units.

The FED program provides the hardware platform to support DoD mandated interoperability /Army digitization requirements (to include implementation of the MIL STD 188-220A protocol and Variable Message Format) to support the new functional user requirements under the next software release and C4I technical architecture requirements. FED is used in the Heavy Divisions by the Forward Observer (FO), Field Artillery (FA) Battery Commanders and Fire Support Team (FST) personnel.

The FED will utilize the same hardware as the Lightweight Forward Entry Device (LFED). FED replacement ensures continued Heavy Division Digital Communications utilizing the Forward Operating System (FOS) software. Without the FED, only manual voice call-for-fire missions will be possible.

Justification: The FY00/01 funds will procure 1251 FED units, for 13 Field Artillery Battalions, 3 Heavy Battalions, 2 Armored Cavalry Regiments, and 9 Separate Brigades.

Exhibit P-5, Weapon OPA Cost Analysis		Appropriation/ Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment			P-1 Line Item Nomenclature: FORWARD ENTRY DEVICE (FED) (BZ9851)			Weapon System Type:			Date: February 1999			
OPA Cost Elements		ID	FY 98			FY 99			FY 00			FY 01		
		CD	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
			\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000
1. Hardware			2295	153	15	16614	852	20	12246	626	20	12188	625	20
2. Program Management Administration						1510			855			871		
3. Engineering Support						3970			637			680		
4. Contract Support						279			203			200		
5. Fielding						2598			1881			1918		
TOTAL			2295			24971			15822			15857		
<p>FY99 Unit Cost increase is due to the retrofit of previous boxes, increased RAM, an upgrade to a Pentium Plus and the requirement of a printer and IK in certain units.</p> <p>The increase in Engineering Support in FY99 is due to the requirement to test and incorporate voice recognition into the software and the HTU box.</p> <p>FY98 costs are shared with the FSAC (B78400) line. Hardware peripherals and program office costs were funded under that line.</p>														

Exhibit P-5a, Budget Procurement History and Planning

Date: February 1999

Appropriation / Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics
 Equipment

Weapon System Type:

P-1 Line Item Nomenclature: FORWARD ENTRY DEVICE (FED) (BZ9851)

WBS Cost Elements: Fiscal Years	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY Each	Unit Cost \$000	Specs Avail Now?	Date Revsn Avail	RFP Issue Date
FY98 HTU	GTE, Taunton, MA	C/OPTION	CECOM	Jan-98	May-98	153	15	Yes		
FY99 HTU	GTE, Taunton, MA	C/OPTION	CECOM	Jan-99	May-99	852	20	Yes		
FY00 HTU	GTE, Taunton, MA	C/OPTION	CECOM	Jan-00	May-00	626	20	Yes		
FY01 HTU	GTE, Taunton, MA	C/OPTION	CECOM	Jan-01	May-01	625	20	Yes		

REMARKS: The FY98 requirement was shared with the FSAC line (B78400). Additional hardware was procured under that line.

Exhibit P-40, Budget Item Justification Sheet

Date: February 1999

Appropriation / Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment
 P-1 Item Nomenclature: STRIKER-COMMAND AND CONTROL SYSTEM (B78500)

Program Elements for Code B Items: 0203758A
 Code: B
 Other Related Program Elements:

	Prior Years	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	To Complete	Total Prog
Proc Qty				10	30	35	40	62	57	75	470	779
Gross Cost	0.0	0.0	0.0	6.0	12.3	14.2	16.2	24.0	22.4	30.1	237.8	363.0
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	0.0	0.0	0.0	6.0	12.3	14.2	16.2	24.0	22.4	30.1	237.8	363.0
Initial Spares												
Total Proc Cost	0.0	0.0	0.0	6.0	12.3	14.2	16.2	24.0	22.4	30.1	237.8	363.0
Flyaway U/C												
Wpn Sys Proc U/C				.6	.4	.4	.4	.4	.4	.4		

DESCRIPTION: The Striker program integrates the Bradley Fire Support Vehicle (BFIST) mission equipment package (MEP) into a HMMWV chassis supporting heavy and light force fire support operations. The Striker program is a continuation of the BFIST program designed specifically for the Combat Observation Lasing Team (COLT) in heavy divisions and light divisions. The Striker was approved as a Warfighting Rapid Acquisition Program (WRAP) initiative designed to get the Striker operational enhancement to the soldier quickly at the best cost.

JUSTIFICATION: The Striker program modifies components of existing systems and leverages acquisition resources already dedicated for the BFIST program. The Striker program will also leverage test and development activities, along with providing for Horizontal Contract Integration (HCI) across platforms. This strategy will reduce costs and acquisition time, while also affording greater adaptability of the Striker kit to common wheeled platforms.

Exhibit P-5, Weapon OPA Cost Analysis		Appropriation/ Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment			P-1 Line Item Nomenclature: STRIKER-COMMAND AND CONTROL SYSTEM (B78500)			Weapon System Type:			Date: February 1999			
OPA Cost Elements		ID	FY 98			FY 99			FY 00			FY 01		
		CD	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
			\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000
Hardware Costs														
1. Vehicle Upgrade					4040	10	404	8799	30	293	10757	35	307	
SUBTOTAL					4040			8799			10757			
Non Recurring Production														
2. Engineering Contractor					923			1034			957			
3. Engineering Government					468			433			441			
4. Program Management Administration					190			175			178			
5. Reimbursable Matrix Support					40			39			39			
6. Fielding					186			1351			1842			
7. Test & Evaluation					162			476						
SUBTOTAL					1969			3508			3457			
TOTAL					6009			12307			14214			

Exhibit P-5a, Budget Procurement History and Planning

Date: February 1999

Appropriation / Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment
 Weapon System Type: P-1 Line Item Nomenclature: STRIKER-COMMAND AND CONTROL SYSTEM (B78500)

WBS Cost Elements: Fiscal Years	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY Each	Unit Cost \$000	Specs Avail Now?	Date Revsn Avail	RFP Issue Date
1. Vehicle Upgrade										
FY 99	SEI, St Louis, MO	SS/FFP	USATACOM, Warren, MI	Jan-99	Dec-99	10	404			
FY 00	SEI, St Louis, MO	SS/FFP	USATACOM, Warren, MI	Nov-99	Oct-00	30	293			
FY 01	SEI, St Louis, MO	SS/FFP	USATACOM, Warren, MI	Nov-00	Oct-01	35	307			

REMARKS:

FY 00 / 01 BUDGET PRODUCTION SCHEDULE	P-1 Item Nomenclature: STRIKER-COMMAND AND CONTROL SYSTEM (B78500)	Date: February 1999
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COST ELEMENTS	MFR	FY	S E R V	PROC QTY Each	ACCEP. PRIOR TO 1 OCT	BAL DUE AS OF 1 OCT	Fiscal Year 99												Fiscal Year 00												L A T E R		
							Calendar Year 99												Calendar Year 00														
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P			
1. Vehicle upgrade																																	
	1	FY 99	A	10	0	10					A													2	4								4
	1	FY 00	A	30	0	30								A																		30	
	1	FY 01	A	35	0	35																										35	
Total																													1	2		2	60

MFR	NAME / LOCATION	PRODUCTION RATES			REACHED	MFR Number	ADMIN LEAD TIME		MFR After 1 Oct.	TOTAL After 1 Oct.	REMARKS
		MIN.	1-8-5	MAX.			D +	Prior 1 Oct.			
1	SEI, Sanford, FL	*	*	*		1	INITIAL	4	11	15	* Due to vehicles being new production, production rates are to be determined. When this is settled, useful Min/Max rates may be possible.
							REORDER	2	11	13	
							INITIAL				
							REORDER				
							INITIAL				
							REORDER				
							INITIAL				
							REORDER				

FY 00 / 01 BUDGET PRODUCTION SCHEDULE							P-1 Item Nomenclature: STRIKER-COMMAND AND CONTROL SYSTEM (B78500)														Date: February 1999																		
COST ELEMENTS	MFR	FY	SERV	PROC QTY Each	ACCEP. PRIOR TO 1 OCT	BAL DUE AS OF 1 OCT	Fiscal Year 01												Fiscal Year 02												LATER								
							Calendar Year 01												Calendar Year 02																				
							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. Vehicle upgrade																																							
	1	FY 99	A	10	10																																		
	1	FY 00	A	30	0	30	2	2	2	2	2	2	2	2	2	2	3	3	4	4																			
	1	FY 01	A	35	0	35		A																															
Total							2	2	2	2	2	2	2	2	2	2	2	2	3	3	2	2	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3		
							OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP									
MFR	NAME / LOCATION				PRODUCTION RATES			REACHED	MFR Number	ADMIN LEAD TIME				MFR	TOTAL	REMARKS																							
					MIN.	1-8-5	MAX.	D +		Prior 1 Oct.	After 1 Oct.			After 1 Oct.	After 1 Oct.																								
1	SEI, Sanford, FL				*	*	*		1	INITIAL			4	11	15	* Due to vehicles being new production, production rates are to be determined. When this is settled, useful Min/Max rates may be possible.																							
										REORDER			2	11	13																								
										INITIAL																													
										REORDER																													
										INITIAL																													
										REORDER																													
										INITIAL																													
										REORDER																													

Exhibit P-40, Budget Item Justification Sheet

Date: February 1999

Appropriation / Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment
 P-1 Item Nomenclature: LIFE CYCLE SOFTWARE SUPPORT (LCSS) (BD3955)

Program Elements for Code B Items: Code: Other Related Program Elements:

	Prior Years	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	To Complete	Total Prog
Proc Qty												
Gross Cost	57.8	2.0	1.9	1.2	0.9	1.0	1.0	1.0	1.0	1.0	0.0	68.8
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	57.9	2.0	1.9	1.2	0.9	1.0	1.0	1.0	1.0	1.0	0.0	68.9
Initial Spares												
Total Proc Cost	57.9	2.0	1.9	1.2	0.9	1.0	1.0	1.0	1.0	1.0	0.0	68.9
Flyaway U/C												
Wpn Sys Proc U/C												

Description: Life Cycle Software Engineering (LCSE) support, by the Software Engineering Center (SEC), provides the essential services needed to maintain CECOM managed fielded Battlefield Automated Systems (BAS) in a state of operational readiness. The Mobile Subscriber Equipment, Firefinder, TRITAC Switches, and Intelligence/Electronic Warfare Systems are some of the 221 BASs supported by the SEC that directly depend on LCSE support to maintain a posture of mission critical readiness. Adequate funding for LCSE support is essential for the acquisition, operation, maintenance and sustainment of multi-host computer systems, peripherals, interfaces, support equipment, test beds, components, and software used to provide the necessary services and support to maintain BASs in the state of operational readiness.

Justification: Policy for Post Production Software Support (PPSS) requires that system managers provide initial host capabilities for new systems, and that the Life Cycle Software Engineering Centers (LCSEC) provide upgrades and replacement of obsolete equipment. Significant portions of host and network equipment are five years old or older and/or reaching obsolescence. There is the requirement to respond to emergency requests from the field for Software Engineering support in order to maintain operational readiness of deployed BASs. With host computers, peripherals (e.g., memory storage devices, terminals, keyboards, and printers, media and replication equipment) having a life-span of approximately five years and the SEC performing its mission over a continuous period of time beyond five years, equipment must be replaced and/or upgraded regularly to deal with obsolescence and to take advantage of the continual improvements in technology that are indigenous to high-technology based weapon systems and their software support environments in order to meet the ever increasing mission requirements imposed by the field. Funding for this task is essential to provide and maintain the software support environments and LCSE support required to maintain fielded BASs in a state of operational readiness, worldwide, to support the Soldier in the field.

Exhibit P-5, Weapon OPA Cost Analysis		Appropriation/ Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment			P-1 Line Item Nomenclature: LIFE CYCLE SOFTWARE SUPPORT (LCSS) (BD3955)			Weapon System Type:			Date: February 1999			
OPA Cost Elements		ID	FY 99			FY 00			FY 01			FY 02		
		CD	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
			\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000
Sys Development Upgrade for Fire Support			407	1	407									
Tactical Fusion HW/SW Upgrade			350	1	350									
IEW/Avionics Upgrade			100	1	100									
Communications Engrq HW/SW Upgrade			175	1	175									
Architecture and Technology Upgrade			139	1	139									
Tactical Fusion HW/SW Upgrade						863	1	863						
IEW/Avionics Upgrade									1017	1	1017			
Communications Engrq HW/SW Upgrade												1000	1	1000
Total			1171			863			1017			1000		

Exhibit P-5a, Budget Procurement History and Planning

Date: February 1999

Appropriation / Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment		Weapon System Type:			P-1 Line Item Nomenclature: LIFE CYCLE SOFTWARE SUPPORT (LCSS) (BD3955)					
WBS Cost Elements: Fiscal Years	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY Each	Unit Cost \$000	Specs Avail Now?	Date Revsn Avail	RFP Issue Date
Sys Development Upgrade for Fire Support FY 99	Telos/Ashburn, VA	C/TM	CECOM	Jan-99	Feb-99	1	407			
Tactical Fusion HW/SW Upgrade FY 99	Ilex/Camden, NJ	C/TM	CECOM	Jan-99	Feb-99	1	275			
Tactical Fusion HW/SW Upgrade FY 99	TBD	C/IDIQ	CECOM	Mar-99	Aug-99	1	75			
IEW/Avionics Upgrade FY 99	TBD	C/IDIQ	CECOM	Apr-99	Aug-99	1	100			
Architecture and Technology Upgrade FY 99	TBD	C/IDIQ	CECOM	Apr-99	Aug-99	1	139			
Communications Engrg HW/SW Upgrade FY 99	TBD	C/TM	CECOM	Jun-99	Sep-99	1	175			
Tactical Fusion HW/SW Upgrade FY 00	TBD	C/TM	CECOM	Feb-00	Apr-00	1	863			
IEW/Avionics Upgrade FY 01	TBD	C/TM	CECOM	Feb-01	Apr-01	1	1017			
Communications Engrg HW/SW Upgrade FY02	TBD	C/TM	CECOM	Feb-02	Apr-02	1	1000			

REMARKS:

Exhibit P-40, Budget Item Justification Sheet

Date:

February 1999

Appropriation / Budget Activity/Serial No:

OTHER PROCUREMENT / 2 / Communications and Electronics Equipment

P-1 Item Nomenclature:

LOGTECH (BZ8889)

Program Elements for Code B Items:

Code:

Other Related Program Elements:

	Prior Years	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	To Complete	Total Prog
Proc Qty												
Gross Cost	55.6	7.5	12.9	8.2	4.2	4.1	4.2	4.3	4.4	4.5	0.0	109.9
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	55.6	7.5	12.9	8.2	4.2	4.1	4.2	4.3	4.4	4.5	0.0	109.9
Initial Spares												
Total Proc Cost	55.6	7.5	12.9	8.2	4.2	4.1	4.2	4.3	4.4	4.5	0.0	109.9
Flyaway U/C												
Wpn Sys Proc U/C												

DESCRIPTION: LOGTECH or Automatic Identification Technology (AIT) provides state-of-the-art technologies that offer rapid and accurate data capture, retrieval and transmission. The technology includes various radio frequency barcode scanning devices, barcode label and page printers, and various data carrier devices with associated readers and writers. The data carrier devices include optical laser cards, integrated circuit chip cards (smart cards) and PC memory cards. AIT devices are used with automated logistics systems to facilitate and expedite property receiving, distribution, storage, inventory management and accountability. AIT is used throughout the Army at the wholesale (AMC) and retail (STAMIS) supply levels and in automated maintenance, personnel and transportation systems, where rapid and accurate source data collection is required. The AIT contract establishes a baseline of AIT devices for use throughout DoD and ensures standardization and interoperability of this equipment among the Services.

JUSTIFICATION: FY00/01 fieldings support Depot Systems Command, Major Commands and Army STAMIS with AIT and Radio Frequency Portable Data Collection Device (RFPDCD) Networks and printers. Funds will continue these essential initiatives, satisfying logistics requirements in the tactical and nontactical arenas.

Exhibit P-5, Weapon OPA Cost Analysis		Appropriation/ Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment			P-1 Line Item Nomenclature: LOGTECH (BZ8889)			Weapon System Type:			Date: February 1999			
OPA Cost Elements		ID	FY 98			FY 99			FY 00			FY 01		
		CD	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
			\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000
AIT Peripherals *		A	10300	VAR	VAR	6103	VAR	VAR	1682	VAR	VAR	1631	VAR	VAR
RFPDCD Networks **		A	2244	51	44	2112	48	44	2508	57	44	2508	57	44
Automated Manifest System		A	324	81	4									
TOTAL			12868			8215			4190			4139		
* AIT Peripherals unit cost varies by item														
** Radio Frequency Portable Data Collection Device (RFPDCD)														

Exhibit P-5a, Budget Procurement History and Planning

Date:
February 1999

Appropriation / Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment		Weapon System Type:			P-1 Line Item Nomenclature: LOGTECH (BZ8889)					
WBS Cost Elements: Fiscal Years	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY Each	Unit Cost \$000	Specs Avail Now?	Date Revsn Avail	RFP Issue Date
AIT Peripherals *										
FY 98	INTERMEC	C/FP	CAC-W	Feb-98	May-98	VAR	VAR	YES		
	INTERMEC	C/FP	CAC-W	May-98	Aug-98	VAR	VAR	YES		
	INTERMEC	C/FP	CAC-W	Sep-98	Dec-99	VAR	VAR	YES		
FY 99	INTERMEC	C/FP	CAC-W	Jan-99	Apr-99	VAR	VAR	YES		
	INTERMEC	C/FP	CAC-W	Mar-99	Jun-99	VAR	VAR	YES		
FY 00	TBD	C/FP	CAC-W	Dec-99	Mar-00	VAR	VAR	YES		
	TBD	C/FP	CAC-W	Mar-00	Jun-00	VAR	VAR	YES		
FY 01	TBD	C/FP	CAC-W	Dec-00	Mar-01	VAR	VAR	YES		
	TBD	C/FP	CAC-W	Mar-01	Jun-01	VAR	VAR	YES		
RFPDCD Networks **										
FY 98	INTERMEC	C/FP	CAC-W	Feb-98	May-98	26	44	YES		
	INTERMEC	C/FP	CAC-W	May-98	Aug-98	25	44	YES		
FY 99	INTERMEC	C/FP	CAC-W	Jan-99	Apr-99	24	44	YES		
	INTERMEC	C/FP	CAC-W	Mar-99	Jun-99	24	44	YES		
FY 00	TBD	C/FP	CAC-W	Dec-99	Mar-00	29	44	YES		
	TBD	C/FP	CAC-W	Mar-00	Jun-00	28	44	YES		
FY 01	TBD	C/FP	CAC-W	Dec-00	Mar-01	29	44	YES		
	TBD	C/FP	CAC-W	Mar-01	Jun-01	28	44	YES		
Automated Manifest System										
FY 98	INTERMEC	C/FP	CAC-W	Jan-98	Apr-98	81	4	YES		

REMARKS: * AIT Peripherals unit cost varies by item configuration
 ** Radio Frequency Portable Data Collection Device (RFPDCD)

INTERMEC - Intermec Technologies Corporation, Everett, WA
 CAC-W - CECOM Acquisition Center - Washington

Exhibit P-40, Budget Item Justification Sheet

Date: February 1999

Appropriation / Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment
 P-1 Item Nomenclature: TC AIMS II (BZ8900)

Program Elements for Code B Items: Code: Other Related Program Elements:

	Prior Years	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	To Complete	Total Prog
Proc Qty												
Gross Cost	0.0	0.0	1.8	0.4	1.7	1.4	1.4	1.2	1.2	1.3	0.0	10.5
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	0.0	0.0	1.8	0.4	1.7	1.4	1.4	1.2	1.2	1.3	0.0	10.5
Initial Spares												
Total Proc Cost	0.0	0.0	1.8	0.4	1.7	1.4	1.4	1.2	1.2	1.3	0.0	10.5
Flyaway U/C												
Wpn Sys Proc U/C												

DESCRIPTION: Transportation Coordinator-Automated Information Movements System II (TC-AIMS II) is a joint program which will consolidate management of the unit/installation-level transportation functions of Unit Movement, Load Planning and Installation Transportation Office/Traffic Management Office (ITO/TMO) operations into a single automated capability for use throughout DoD. Reducing systems redundancy, functionalities of unit movement, load planning and ITO/TMO transportation AISs will be migrated into TC-AIMS II applications. TC-AIMS II will provide a common hardware suite running software applications designed for easy data retrieval, data exchange and connectivity to relevant external sources. Open systems architecture is emphasized throughout for standardization and interoperability and for ease of system growth and maintenance.

JUSTIFICATION: TC-AIMS II will provide critical data to the Global Transportation Network and Service-designated Command and Control systems. TC-AIMS II is the foundation for joint transportation process improvement. FY00/01 funding procures upgrades for existing hardware and COTS software licenses to support up to 21K users.

Exhibit P-5, Weapon OPA Cost Analysis		Appropriation/ Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment			P-1 Line Item Nomenclature: TC AIMS II (BZ8900)			Weapon System Type:			Date: February 1999			
OPA Cost Elements		ID	FY 98			FY 99			FY 00			FY 01		
		CD	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
			\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000
Hardware consisting of: COMPAQ 4500 servers, Pentium-based desktop workstations and Pentium-based laptops		A	1826	*VAR	VAR	444	*VAR	VAR	439	*VAR	VAR	140	*VAR	VAR
COTS software licenses:									1300	VAR	VAR	1300	VAR	VAR
TOTAL			1826			444			1739			1440		
* Configurations vary by site														

Exhibit P-5a, Budget Procurement History and Planning

Date: February 1999

Appropriation / Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment				Weapon System Type:		P-1 Line Item Nomenclature: TC AIMS II (BZ8900)				
WBS Cost Elements: Fiscal Years	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY Each	Unit Cost \$000	Specs Avail Now?	Date Revsn Avail	RFP Issue Date
FY 98	VAR*	C/FP	GSA/FEDSIM	Mar-98	Jun-98	VAR	VAR	YES		
FY 99	TBS	C/FP	CAC-W & GSA	Jun-98	Sep-98	VAR	VAR	YES		
FY 00	TBS	C/FP	CAC-W & GSA	Jan-99	Apr-99	VAR	VAR	YES		
FY 01	TBS	C/FP	CAC-W & GSA	Dec-99	Mar-00	VAR	VAR	YES		
COTS software licenses: Supports up to 21K users										
FY 00	LOGICON	C/FP	GSA	Dec-99	Dec-99	VAR	VAR	YES		
FY 01	LOGICON	C/FP	GSA	Dec-00	Dec-00	VAR	VAR	YES		
* Configurations vary by site										

REMARKS: Contractor are: McBride & Associates, Albuquerque, NM and Tech, Mgmt & Analysis Corp, McLean, VA
 GSA - Government Services Administration, Kansas City, MO
 FEDSIM - Federal Systems Integration Management Center, Falls Church, VA
 CAC-W - CECOM Acquisition Center - Washington
 LOGICON - San Pedro, CA

Exhibit P-40, Budget Item Justification Sheet

Date: February 1999

Appropriation / Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment
 P-1 Item Nomenclature: GUN LAYING AND POS SYS (GLPS) (A30000)

Program Elements for Code B Items: Code: Other Related Program Elements:

	Prior Years	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	To Complete	Total Prog
Proc Qty			64	61	81	92	93					391
Gross Cost	0.0	0.0	5.8	6.3	7.5	8.5	8.4	0.0	0.0	0.0	0.0	36.4
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)		0.0	5.8	6.3	7.5	8.5	8.4	0.0	0.0	0.0	0.0	36.4
Initial Spares	11.5											11.5
Total Proc Cost	11.5	0.0	5.8	6.3	7.5	8.5	8.4	0.0	0.0	0.0	0.0	47.9
Flyaway U/C												
Wpn Sys Proc U/C												

DESCRIPTION: The Gun Laying and Positioning System (GLPS) will be a modular, lightweight, cost effective Non-Developmental Item (NDI) that will give each towed and self-propelled non-Paladin firing battery autonomous positioning and directional capability. The GLPS will rapidly self-locate and determine azimuth/deflection and position (Universal Transverse Mercator (UTM) coordinates and altitude) of each howitzer from one centrally located orienting station. The GLPS will consist of a tripod mounted gyroscope integrated with an electronic digital optical instrument, eye-safe laser rangefinder, and transport case(s). Use of the GLPS also requires the AN/PSN-11 Precision Lightweight Global Positioning System (GPS) Receiver (PLGR), which has already been authorized in FY00.

JUSTIFICATION: This system will decrease the time required to survey and lay a howitzer battery from 2 hours to 14 minutes. The GLPS will displace one of the two Position and Azimuth Determining Systems (PADS) and the associated PADS crew within each Field Artillery Battalion. The FY00 funding is a continuation of GLPS production to be fielded to the active Army and National Guard.

Exhibit P-5, Weapon OPA Cost Analysis		Appropriation/ Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment			P-1 Line Item Nomenclature: GUN LAYING AND POS SYS (GLPS) (A30000)			Weapon System Type:			Date: February 1999		
OPA Cost Elements	ID CD	FY 98			FY 99			FY 00			FY 01		
		TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000
1. Hardware	A	5316	64	83	5067	61	83	6599	81	81	7527	92	82
2. Engineering Support (In-House)		103			254			163			175		
3. Quality Support (ARDEC)					212			91			92		
4. Logistics Support		305			318			167			186		
5. First Destination Transportation		6			79			105			125		
6. Total Package Fielding/New Equip Trng		50			383			340			366		
TOTAL		5780			6313			7465			8471		

Exhibit P-5a, Budget Procurement History and Planning

Date:
February 1999

Appropriation / Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment		Weapon System Type:			P-1 Line Item Nomenclature: GUN LAYING AND POS SYS (GLPS) (A30000)					
WBS Cost Elements: Fiscal Years	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY Each	Unit Cost \$000	Specs Avail Now?	Date Revsn Avail	RFP Issue Date
1. Hardware										
FY98	Leica Technologies, Inc Leesburg, VA	SS/FFP	ACALA	Oct-98	Sep-99	64	83	Yes	No	
FY99	Leica Technologies, Inc Leesburg, VA	SS/FFP	ACALA	Apr-99	Apr-00	61	83	Yes	No	
FY00	Leica Technologies, Inc Leesburg, VA	SS/FFP	ACALA	Mar-00	Aug-00	81	81	Yes	No	
FY01	Leica Technologies, Inc Leesburg, VA	SS/FFP	ACALA	Feb-01	Jun-01	92	82	Yes	No	

REMARKS:

Exhibit P-40, Budget Item Justification Sheet

Date: February 1999

Appropriation / Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment
 P-1 Item Nomenclature: ISYSCON EQUIPMENT (BX0007)

Program Elements for Code B Items: 28010.107
 Code: A
 Other Related Program Elements: BB1600

	Prior Years	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	To Complete	Total Prog
Proc Qty												
Gross Cost	12.7	2.7	14.7	15.1	14.7	17.1	19.2	2.9	0.0	0.0		99.1
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	12.7	2.7	14.7	15.1	14.7	17.1	19.2	2.9	0.0	0.0		99.1
Initial Spares												
Total Proc Cost	12.7	2.7	14.7	15.1	14.7	17.1	19.2	2.9	0.0	0.0		99.1
Flyaway U/C												
Wpn Sys Proc U/C												

DESCRIPTION:

Integrated System Control (ISYSCON) provides a centralized capability for planning and managing all tactical communication networks on the battlefield; and interface with each battlefield functional area in the ATCCS architecture. The ISYSCON serves as the architectural foundation on which to build network management at Division through Echelons Above Corps. It will serve as the baseline for the management of WIN upon which to build the Joint Network Management System (JNMS). The ISYSCON software will reside on CHS II Hardware Platforms in a client/server architecture. The server terminals are located in SICPS Shelters, and client terminals are located in the SICPS tent. The major functions of ISYSCON are network planning and engineering, signal command and control, battlefield spectrum management, wide area network management and COMSEC management. The emergence of data networks at all echelons, and specifically the Tactical Internet, has caused greater responsibility on ISYSCON as the focal point for managing the interconnection of C3S systems, to include the management of network security and intrusion detection. ISYSCON is key to successful communications management for the First Digitized Division (FDD)/First Digitized Corps (FDC), and is a critical part of the Army Vision 2010 for Information Dominance.

JUSTIFICATION:

The ISYSCON program provides the network management of WIN-Terrestrial (WIN-T), interfaces with battlefield functional areas in ATCCS architecture, and initial planning of joint communications management protocols, and solves significant shortcomings in today's network management systems. FY 00/01 funding provides for production of Echelons Corps and Below (ECB) and Echelons Above Corps (EAC) hardware, facilities, and software licenses to accommodate network management support for First Digitized Division (FDD) and First Digitized Corp (FDC) requirements.

Exhibit P-5, Weapon OPA Cost Analysis		Appropriation/ Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment			P-1 Line Item Nomenclature: ISYSCON EQUIPMENT (BX0007)			Weapon System Type:			Date: February 1999			
OPA Cost Elements		ID	FY 98			FY 99			FY 00			FY 01		
		CD	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
			\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000
1. Production System		B				8953	14	640	7704	12	642	9488	14	678
a. GFE/CHS/SICPS						1345	14	96	1153	12	96	1345	14	96
b. System Integration/Fldg				554										
c. Upgrades-LRIP														
2. Engineering Support														
a. Contractor			275			516			593			491		
b. Government			936			862			1034			1163		
3. Production Software/PDSS			12952			1000			1000			1000		
4. Battlefield Spectrum Management (BSM)						500			1500			1500		
5. Test			23			770			370			360		
6. ECP						500			450			850		
7. Initial Spares						687			756			795		
8. Contract Service Field Rep.									154			157		
TOTAL			14740			15133			14714			17149		

Exhibit P-5a, Budget Procurement History and Planning

Date: February 1999

Appropriation / Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment		Weapon System Type:			P-1 Line Item Nomenclature: ISYSCON EQUIPMENT (BX0007)					
WBS Cost Elements: Fiscal Years	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY Each	Unit Cost \$000	Specs Avail Now?	Date Revsn Avail	RFP Issue Date
1. Production Software	GTE Raleigh, NC	FP/OPT	CECOM	Nov-97	Sep-98	N/A		YES		
FY 1998 GFE/Hardware	GTE Raleigh, NC	GFE	CECOM	Feb-98	Sep-98	N/A		YES		
FY 1999 GFE-CHS	GTE Taunton, MA	FP/OPT	CECOM	Mar-99	Nov-99	14	586	YES		
FY 1999 SICPS Facility	Gichner Dallastown, PA	FP/OPT	PM TOC	Mar-99	Feb-00	14	150	YES		
FY 2000 GFE-CHS	GTE Taunton, MA	FP/OPT	CECOM	Oct-99	Jun-00	12	588	YES		
FY 2000 SICPS Facility	Gichner, Dallastown, PA	FP/OPT	PM TOC	Oct-99	Sep-00	12	150	YES		
FY 2001 GFE-CHS	GTE Taunton, MA	FP/OPT	CECOM	Oct-00	Jun-01	14	623	YES		
FY 2001 SICPS Facility	Gichner, Dallastown, PA	FP/OPT	PM TOC	Oct-00	Sep-01	14	150	YES		
2. Battlefield Spectrum Management (BSM)										
FY 1999	IITRI Annapolis, MD	FP/OPT	CECOM	Oct-98	Sep-99	N/A		YES		
FY 2000	IITRI Annapolis, MD	FP/OPT	CECOM	Oct-99	Sep-00	N/A		YES		
FY 2001	IITRI Annapolis, MD	FP/OPT	CECOM	Oct-00	Sep-01	N/A		YES		

REMARKS: FY98/99 Supports Legacy System Upgrades and Fielding to FDD/FDC in FY 00-04.
FY00/01 reflects costs to procure GFE Hardware and Software licenses for the combinations of (V)1 and (V)2 configurations at ECB and EAC; with various Unit Costs.

Exhibit P-40, Budget Item Justification Sheet

Date: February 1999

Appropriation / Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment
 P-1 Item Nomenclature: MANEUVER CONTROL SYSTEM (MCS) (BA9320)

Program Elements for Code B Items: PE 0203740A Project D484
 Code: B
 Other Related Program Elements:

	Prior Years	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	To Complete	Total Prog
Proc Qty	1921	81	46		653	663		159	428	697	3440	8088
Gross Cost	367.8	13.0	0.0	13.0	52.0	50.7	0.6	20.6	42.9	55.9	324.1	940.7
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	367.8	13.0	0.0	13.0	52.0	50.7	0.6	20.6	42.9	55.9	324.1	940.7
Initial Spares	46.2	0.8				5.0					39.9	91.9
Total Proc Cost	414.0	13.8	0.0	13.0	52.0	55.7	0.6	20.6	42.9	55.9	364.0	1032.6

DESCRIPTION: The Maneuver Control System (MCS) is an automated tactical Command, Control and Communications (C3) system which provides a network of computer terminals to process combat information for battle staffs. It provides automated assistance in the collection, storage, review and display of information to support the commander's decision process. Both text and map graphics are provided to the user. It enables operation staffs, G3/S3, to process and distribute estimates, plans, orders and reports. The system is designed to operate with existing and planned communications networks. This is an evolutionary development including planned system improvements to insure increasing Command and Control (C2) capabilities and infusion of current technology while, in the interim, providing an essential core capability.

JUSTIFICATION: MCS is the key to the commander's situational awareness and common picture of the battlefield. It will incorporate all fire support, intelligence, air defense, logistics, and maneuver information concerning friendly and enemy forces, and then enable the commander to effectively make decisions, issue orders, allocate resources, and fight the battle.

The MCS Common Hardware/Software (CHS) equipment is needed to equip the active force with an automated C2 capability. This program is an integral part of the Army Tactical Command and Control System (ATCCS) and is critical to the successful operation of the overall system. This generation of computers will incorporate advances in technology and achieve Life Cycle Cost savings due to commonality of support.

FY00 and FY01 funding will be required to purchase and field computer systems to First Digitized Corps Units such as the 4ID, 1st Cav Div, III Corps, and the 3rd ACR. This funding will also enable the procurement of the remainder of the TRADOC institutional training base.

Exhibit P-5, Weapon OPA Cost Analysis		Appropriation/ Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment			P-1 Line Item Nomenclature: MANEUVER CONTROL SYSTEM (MCS) (BA9320)			Weapon System Type:			Date: February 1999			
OPA Cost Elements		ID	FY 98			FY 99			FY 00			FY 01		
		CD	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
			\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000
1. HARDWARE														
a. Computer Systems CHS-2					3077	46	67	31360	653	48	29432	663	44	
b. Test Hardware														
c. Test Spares														
d. Training Hardware														
PERIPHERALS: Printer, Large Screen Display, Tactical Scanner, Large Scale Plotter					489			2756			3200			
2. PROJECT MANAGEMENT ADMIN.					2892			2836			2887			
3. TEST														
a. Test Transportation														
b. Test Support														
4. FIELDING														
a. New Equipment Training Team (NETT)					1581			5551			5348			
b. 1st Destination Transportation					149			244			177			
c. Total Package Fielding (TPF)					171			558			776			
5. INTERIM CONTRACTOR SUPPORT (ICS)					1354			4504			4320			
6. OTHER CHS-2 Support Cost Includes: MCS Data, Licenses, Software Support, GBLs, COTS Software Maintenance					3285			4240			4589			
NOTE: 1st Destination Transportation Includes SICPS Transportation														
TOTAL					12998			52049			50729			

Exhibit P-5a, Budget Procurement History and Planning

Date:
February 1999

Appropriation / Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment		Weapon System Type:			P-1 Line Item Nomenclature: MANEUVER CONTROL SYSTEM (MCS) (BA9320)					
WBS Cost Elements: Fiscal Years	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY Each	Unit Cost \$000	Specs Avail Now?	Date Revsn Avail	RFP Issue Date
a. Computer Systems - CHS-2										
FY 99	GTE, Taunton, MA	C/FP/OPT	CECOM	Apr-99	Sep-99	46	67	Yes		
FY 00	GTE, Taunton, MA	C/FP/OPT	CECOM	Jan-00	Jul-00	653	48	Yes		
FY 01	GTE, Taunton, MA	C/FP/OPT	CECOM	Jan-01	Jul-01	663	44	Yes		

REMARKS: The above hardware is COTS and is procured on the existing CHS-2 contract.

Exhibit P-40, Budget Item Justification Sheet

Date: February 1999

Appropriation / Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment
 P-1 Item Nomenclature: STAMIS TACTICAL COMPUTERS (STACOMP) (W00800)

Program Elements for Code B Items: Code: Other Related Program Elements:

	Prior Years	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	To Complete	Total Prog
Proc Qty												
Gross Cost	331.7	42.4	30.9	48.1	33.7	38.7	50.7	56.0	56.9	56.5	0.0	745.5
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	331.7	42.4	30.9	48.1	33.7	38.7	50.7	56.0	56.9	56.5	0.0	745.5
Initial Spares												
Total Proc Cost	331.7	42.4	30.9	48.1	33.7	38.7	50.7	56.0	56.9	56.5	0.0	745.5
Flyaway U/C												
Wpn Sys Proc U/C												

DESCRIPTION: STAMIS Tactical Computers (STACOMP) are a group of Commercial Off-the-Shelf (COTS) computer systems supporting STAMIS tactical computer requirements for the US Army. These systems, used by soldiers on the battlefield to support Combat Service Support (CSS) missions at all levels, are transportable and user friendly. STACOMP COTS supports the following STAMIS: Standard Army Retail Supply System (SARSS), Standard Army Ammunition System (SAAS), Standard Army Maintenance System (SAMS), Department Army Movements Management System Redesign (DAMMS-R), Unit Level Logistics System (ULLS), Global Combat Support System-Army (GCSS-Army) and Standard Installation Division Personnel System-3 (SIDPERS-3).

GCSS-Army will be the business/tactical automation enabler for the total Army CSS mission area and will constitute the Army portion of the GCSS. GCSS-Army will be implemented in three tiers: Tier 1 will include functionality of existing logistics STAMIS (SARSS, SAAS, SAMS and ULLS). Tier 2 will integrate the logistics wholesale and retail levels of CSS. Tier 3 will implement all required interfaces with AIS of the Joint community, national sustaining base and applicable allied systems. Milestone 0/I/II approval for GCSS-Army, Tier 1 and Milestone 0 approval for Tiers 2 and 3 was granted in May 1997. Development and fielding of GCSS-Army will follow an incremental acquisition strategy combining development with incremental fielding of capability packages. GCSS-Army will consist of six major modules – Supply/Property, Maintenance, Ammunition Supply, Supply Support, Integrated Materiel Management Center and Management. Beginning in FY98, all STACOMP COTS hardware purchased for logistics STAMIS will support GCSS-Army functionalities. Upon completion of fielding, GCSS-Army Tier 1 will replace SARSS, SAAS, SAMS and ULLS. Until that time, these systems will continue to be maintained at minimally acceptable levels.

JUSTIFICATION: FY00/01 funds procure COTS microcomputers for GCSS-Army, SIDPERS and STAMIS support systems.

Exhibit P-5, Weapon OPA Cost Analysis		Appropriation/ Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment			P-1 Line Item Nomenclature: STAMIS TACTICAL COMPUTERS (STACOMP) (W00800)			Weapon System Type:			Date: February 1999			
OPA Cost Elements		ID	FY 98			FY 99			FY 00			FY 01		
		CD	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
			\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000
COTS Microcomputers* for:		A												
DAMMS -R			1424	VAR	VAR									
SAAS			2224	VAR	VAR	1000	VAR	VAR						
SAMS			4180	VAR	VAR	6695	VAR	VAR						
SARSS			2228	VAR	VAR	9975	VAR	VAR						
ULLS			9015	VAR	VAR	8937	VAR	VAR						
GCSS-Army			974	VAR	VAR	9731	VAR	VAR	27812	VAR	VAR	32916	VAR	VAR
SIDPERS-3			10480	VAR	VAR	11595	VAR	VAR	5596	VAR	VAR	5590	VAR	VAR
STAMIS Support			379	VAR	VAR	182	VAR	VAR	303	VAR	VAR	183	VAR	VAR
TOTAL			30904			48115			33711			38689		
* Configurations vary by user requirements and site														

Exhibit P-5a, Budget Procurement History and Planning

Date:
February 1999

Appropriation / Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment				Weapon System Type:		P-1 Line Item Nomenclature: STAMIS TACTICAL COMPUTERS (STACOMP) (W00800)					
WBS Cost Elements: Fiscal Years	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY Each	Unit Cost \$000	Specs Avail Now?	Date Revsn Avail	RFP Issue Date	
COTS Microcomputers* for:											
DAMMS -R FY 98	GTSI	C/FP	CAC-W	Apr-98 Aug-98	May-98 Sep-98	VAR	VAR	YES			
SAAS FY 98	GTSI	C/FP	CAC-W	Jun-98 Jul-98 Sep-98	Jul-98 Aug-98 Oct-98	VAR	VAR	YES			
FY99	GTSI	C/FP	CAC-W	Dec-98	Jan-99	VAR	VAR	YES			
SAMS FY 98	GTSI	C/FP	CAC-W	Dec-97 Jan-98 Apr-98	Jan-98 Feb-98 May-98	VAR	VAR	YES			
FY 99	GTSI	C/FP	CAC-W	Dec-98 May-99	Jan-99 Jun-99	VAR	VAR	YES			
SARSS FY 98	VANSTAR	C/FP	CAC-W	Apr-98 Jun-98	May-98 Jul-98	VAR	VAR	YES			
ULLS FY 98	GTSI	C/FP	CAC-W	Dec-97 Mar-98 May-98	Jan-98 Apr-98 Jun-98	VAR	VAR	YES			
FY 99	GTSI	C/FP	CAC-W	Dec-98 Jun-99	Jan-99 Jul-99	VAR	VAR	YES			

- REMARKS:**
- 1) Configurations (quantity and unit cost) vary by user requirement
 - 2) Standard Requirements Type Contracts will be used to procure these COTS microcomputers such as: STAMIS Computer Contract II (SCC II) & Supermini
 - 3) Contractors are: Government Technology Systems, Inc., Chantilly, VA and Vanstar Government Systems, Inc., Fairfax, VA

Exhibit P-5a, Budget Procurement History and Planning

Date: February 1999

Appropriation / Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment				Weapon System Type:			P-1 Line Item Nomenclature: STAMIS TACTICAL COMPUTERS (STACOMP) (W00800)				
WBS Cost Elements: Fiscal Years	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY Each	Unit Cost \$000	Specs Avail Now?	Date Revsn Avail	RFP Issue Date	
GCSS-Army FY 98	GTSI	C/FP	CAC-W	Jun-98	Jul-98	VAR	VAR	YES			
				Aug-98	Sep-98						
FY 99	GTSI	C/FP	CAC-W	Jun-99	Jul-99	VAR	VAR	YES			
FY 00	GTSI	C/FP	CAC-W	VAR*	VAR*	VAR	VAR	YES			
FY 01	GTSI	C/FP	CAC-W	VAR*	VAR*	VAR	VAR	YES			
SIDPERS-3 FY 98	GTSI	C/FP	CAC-W	Mar-98	Apr-98	VAR	VAR	YES			
				Jun-98	Jul-98						
				Aug-98	Sep-98						
FY 99	GTSI	C/FP	CAC-W	Dec-98	Jan-99	VAR	VAR	YES			
				Jan-99	Feb-99						
				Apr-99	May-99						
FY 00	GTSI	C/FP	CAC-W	Dec-99	Jan-00	VAR	VAR	YES			
				Jan-00	Feb-00						
FY 01	GTSI	C/FP	CAC-W	Dec-00	Jan-01	VAR	VAR	YES			
				Jan-01	Feb-01						
STAMIS Support FY 98	GTSI	C/FP	CAC-W	Mar-98	Apr-98	VAR	VAR	YES			
FY 99	GTSI	C/FP	CAC-W	Mar-99	Apr-99	VAR	VAR	YES			
FY 00	GTSI	C/FP	CAC-W	Mar-00	Apr-00	VAR	VAR	YES			
FY 01	GTSI	C/FP	CAC-W	Mar-01	Apr-01	VAR	VAR	YES			

REMARKS:

- 1) Configurations (quantity and unit cost) vary by user requirement
 - 2) Standard Requirements Type Contracts will be used to procure these COTS microcomputers such as: STAMIS Computer Contract II (SCC II) & Supermini
 - 3) Contractors are: Government Technology Systems, Inc., Chantilly, VA and Vanstar Government Systems, Inc., Fairfax, VA
- * Multiple award and delivery dates throughout the FY. COTS will continue to be purchased for legacy STAMIS with the GCSS-Army software being added as it becomes available to replace the legacy STAMIS software.

Exhibit P-40, Budget Item Justification Sheet

Date:

February 1999

Appropriation / Budget Activity/Serial No:

OTHER PROCUREMENT / 2 / Communications and Electronics Equipment

P-1 Item Nomenclature:

STANDARD INTEGRATED CMD POST SYSTEM (BZ9962)

Program Elements for Code B Items:

Code:

Other Related Program Elements:

	Prior Years	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005
Proc Qty										
Gross Cost	37.9	39.6	32.6	26.7	30.7	34.8	17.9	20.2	32.8	22.6
Less PY Adv Proc										
Plus CY Adv Proc										
Net Proc (P-1)	37.9	39.6	32.6	26.7	30.7	34.8	17.9	20.2	32.8	22.6
Initial Spares										
Total Proc Cost	37.9	39.6	32.6	26.7	30.7	34.8	17.9	20.2	32.8	22.6
Flyaway U/C										
Wpn Sys Proc U/C										

DESCRIPTION: This program includes the procurement of five command post variants, each designed to accommodate the various Battlefield Function Army Battle Command System (ABCS). These include the Army Tactical Command and Control System (ATCCS), the Advanced Field Artillery Tactical Data System (AFATDS), the Command Service Support Control System (CSSCS), the Forward Area Defense Command and Control System (FAADC2), the Extended Command and Control System (EAD), and the Integrated Meteorological System (IMETS). The five command post variants are:

- (1) A Tent Command Post (CP) that consists of a lightweight aluminum frame, interchangeable fabric wall sections, fabric roof, floors 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 mounted on the Heavy High Mobility Multipurpose Vehicle (HHMMWV) Shelter Carrier consisting of an on-board generator/conversion/distribution system, environmental control unit, collective chemical protection, signal and power pass-through panels, antenna mounts, equipment racks to accommodate two ABCS workstations, operator seats, a vehicle intercom system and a 10 meter Quick Erect Antenna Mast (QEAM)
- (3) Conversion Kits for the M577 Track Vehicle consisting of equipment racks for two ABCS workstations, power and signal panels, tent interface panel, antenna mounts, stowage provisions, an updated Auxillary Power Unit (APU), a vehicular intercom system, a power distribution system, a 10 meter QEAM signal/data wiring module. The converted M577 has been designated the M1068 Track CP.

Exhibit P-40C Budget Item Justification Sheet		Date
		February 1999
Appropriation / Budget Activity/Serial No. OTHER PROCUREMENT / 2 / Communications and Electronics Equipment		P-1 Item Nomenclature STANDARD INTEGRATED CMD POST SYSTEM (BZ9962)
Program Elements for Code B Items	Code	Other Related Program Elements
<p>(4) Installation Kits for the 5-Ton Expansible Van (E-Van) consisting of racks for up to six ABCS workstations, centralized communications rack, communications patch panel, signal entry panel, antenna mounts, mapboards, a vehicular intercom system, a 10 meter QEAM, updated power distribution wiring and signal/data wiring.</p> <p>(5) Installation Kits for the Soft-Top HHMMWV consisting of equipment racks for up to two ABCS workstations, communications patch panel module, antenna mounts, operator work surface, data patching module, white canvas liners, blackout curtains an a 10 meter QEAM.</p> <p>JUSTIFICATION: The Standard Integrated Command Post System (SICPS) is essential to the Army's Force XXI efforts. It provides the mobile and environmentally protected platform for the ABCS which is a major part of the Army Chief of Staff's effort to digitize the battlefield. Procurement of each of the above variants is required to support the fielding of the noted ABCS nodes with the Army's Common Hardware/Software Command and Control equipment.</p>		

Exhibit P-5, Weapon OPA Cost Analysis		Appropriation/ Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment			P-1 Line Item Nomenclature: STANDARD INTEGRATED CMD POST SYSTEM (BZ9962)			Weapon System Type:			Date: February 1999		
OPA Cost Elements	ID CD	FY 98			FY 99			FY 00			FY 01		
		TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
		\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000
Tent Command Post	A				1540	308	5	952	183	5	1065	201	5
PM/Administration		10			10			10			10		
Engineering Support		50			50			51			51		
SUBTOTAL		60			1600			1013			1126		
Rigid Wall Shelter	A	10875	75	145									
PM/Administration		380			355			330			340		
Engineering Support		1300			350			355			380		
Interim Contractor Support		1100			1085			445			425		
SUBTOTAL		13655			1790			1130			1145		
M1068 Conversion Kit	A	7500	60	125	20305	155	131	21600	160	135	19180	137	140
PM/Administration		1490			450			440			466		
Engineering Support		2300			275			270			286		
SUBTOTAL		11290			21030			22310			19932		
5-Ton E-Van Installation Kit	A	3300	22	150				2400	15	160	5775	35	165
PM/Administration		490			250			245			266		
Engineering Support		600			300			285			300		
Interim Contractor Support		800			1040			340			430		
SUBTOTAL		5190			1590			3270			6771		
Soft Top HHMMWV Installation Kit	A							2132	41	52	4860	90	54
PM/Administration		370			300			290			310		
Engineering Support		900			220			200			220		
Interim Contractor Support		1093			167			355			432		
SUBTOTAL		2363			687			2977			5822		
TOTAL		32558			26697			30700			34796		

Exhibit P-5a, Budget Procurement History and Planning

Date: February 1999

Appropriation / Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment		Weapon System Type:			P-1 Line Item Nomenclature: STANDARD INTEGRATED CMD POST SYSTEM (BZ9962)					
WBS Cost Elements: Fiscal Years	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY Each	Unit Cost \$000	Specs Avail Now?	Date Revsn Avail	RFP Issue Date
Tent Command Post										
FY 99	Camel Manuf. Lafollette, Tenn.	C/Option	ATCOM	Feb-99	Aug-99	308	5	YES		
FY 00	Camel Manuf. Lafollette, Tenn.	C/Option	ATCOM	Feb-00	Aug-00	183	5	YES		
FY 01	Camel Manuf. Lafollette, Tenn.	C/Option	ATCOM	Feb-01	Aug-01	201	5	YES		
Rigid Wall Shelter										
FY 98	Gichner Maunf. Dallastown, Pa.	C/Option	CECOM	Jul-98	Jan-00	75	145			
M1068 Conversion Kit										
FY 98	United Defense San Jose, Ca.	C/Option	TACOM	Jul-98	Apr-99	60	125			
FY 99	United Defense San Jose, Ca.	C/Option	TACOM	Nov-98	Aug-99	155	131	YES		
FY 00	United Defense San Jose, Ca.	C/Option	TACOM	Nov-99	Aug-00	160	135	YES		
FY 01	United Defense San Jose, Ca.	C/Option	TACOM	Nov-00	Aug-01	137	140	YES		
5-Ton E-Van Installation Kit										
FY 98	Tobyhanna Army Depot	MIPR	CECOM	Jul-98	May-99	22	150			
FY 00	Tobyhanna Army Depot	MIPR	CECOM	Jan-00	Nov-00	15	160	YES		
FY 01	Tobyhanna Army Depot	MIPR	CECOM	Jan-01	Nov-01	35	165	YES		
Soft Top HHMMWV Installation Kit										
FY 00	Tobyhanna Army Depot	MIPR	CECOM	Jan-00	Oct-00	41	52	YES		
FY 01	Tobyhanna Army Depot	MIPR	CECOM	Jan-01	Oct-01	90	54	YES		

REMARKS:

FY 00 / 01 BUDGET PRODUCTION SCHEDULE

P-1 Item Nomenclature:
STANDARD INTEGRATED CMD POST SYSTEM (BZ9962)

Date:
Feb 99

COST ELEMENTS	MFR	FY	SERV	PROC QTY Each	ACCEP. PRIOR TO 1 OCT	BAL DUE AS OF 1 OCT	Fiscal Year 00												Fiscal Year 01												L A T E R
							Calendar Year 00												Calendar Year 01												
							O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	
							C	O	E	A	E	A	P	A	U	U	U	E	C	O	E	A	E	A	P	A	U	U	U	E	
Tent Command Post																															
	1	FY 99	A	308	200	108	108																								
	1	FY 00	A	183	0	183				A																					
	1	FY 01	A	201	0	201											A						100	101							
Rigid Wall Shelter																															
	2	FY 98	A	75	0	75				25	25	25																			
M1068 Conversion Kit																															
	3	FY 98	A	60	60																										
	3	FY 99	A	155	60	95	30	30	35																						
	3	FY 00	A	160	0	160		A								30	30	30	30	30	10										
	3	FY 01	A	137	0	137													A				30	30	77						
5-Ton E-Van Installation Kit																															
	4	FY 98	A	22	22																										
	4	FY 00	A	15	0	15				A										15											
	4	FY 01	A	35	0	35															A			35							
Soft Top HHMMWV Installation Kit																															
	5	FY 00	A	41	0	41				A										20	21										
	5	FY 01	A	90	0	90															A			90							
							O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	
							C	O	E	A	E	A	P	A	U	U	U	E	C	O	E	A	E	A	P	A	U	U	U	E	
							T	V	C	N	B	R	R	Y	N	L	G	P	T	V	C	N	B	R	Y	N	L	G	P		

MFR	NAME / LOCATION	PRODUCTION RATES			REACHED D +	MFR Number	ADMIN LEAD TIME		MFR After 1 Oct.	TOTAL After 1 Oct.	REMARKS
		MIN.	1-8-5	MAX.			Prior 1 Oct.	After 1 Oct.			
1	Camel Maunf. Lafollette, Tenn.	50	100	150		1	INITIAL	3	9	12	
							REORDER	3	6	9	
2	Gichner Maunf. Dallastown, Pa.	10	25	75		2	INITIAL	3	18	21	
							REORDER	3	18	21	
3	United Defense San Jose, Ca.	10	30	90		3	INITIAL	4	9	13	
							REORDER	4	9	13	
4	Tobyhanna Army Depot	10	20	60		4	INITIAL	2	10	12	
							REORDER	2	10	12	
5	Tobyhanna Army Depot	10	20	60		5	INITIAL	3	9	12	
							REORDER	3	9	12	

FY 00 / 01 BUDGET PRODUCTION SCHEDULE							P-1 Item Nomenclature: STANDARD INTEGRATED CMD POST SYSTEM (BZ9962)													Date: Feb 99										
COST ELEMENTS	MFR	FY	SERV	PROC QTY Each	ACCEP. PRIOR TO 1 OCT	BAL DUE AS OF 1 OCT	Fiscal Year 02												Fiscal Year 03					L A T E R						
							Calendar Year 02												Calendar Year 03											
							OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB		MAR	APR	MAY	JUN	JUL	AUG
Tent Command Post																														
	1	FY 99	A	308	308																									
	1	FY 00	A	183	183																									
	1	FY 01	A	201	201																									
Rigid Wall Shelter																														
	2	FY 98	A	75	75																									
M1068 Conversion Kit																														
	3	FY 98	A	60	60																									
	3	FY 99	A	155	155																									
	3	FY 00	A	160	160																									
	3	FY 01	A	137	60	77	30	30	17																					
5-Ton E-Van Installation Kit																														
	4	FY 98	A	22	22																									
	4	FY 00	A	15	15																									
	4	FY 01	A	35	0	35		20	15																					
Soft Top HHMMWV Installation Kit																														
	5	FY 00	A	41	41																									
	5	FY 01	A	90	0	90	20	20	20	20	10																			
							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	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MFR			PRODUCTION RATES			REACHED D +	MFR Number	ADMIN LEAD TIME		MFR After 1 Oct.	TOTAL After 1 Oct.	REMARKS																		
	NAME / LOCATION		MIN.	1-8-5	MAX.			Prior 1 Oct.	After 1 Oct.																					
1	Camel Maunf. Lafollette, Tenn.		50	100	150		1	INITIAL	3	9	12																			
								REORDER	3	6	9																			
2	Gichner Maunf. Dallastown, Pa.		10	25	75		2	INITIAL	3	18	21																			
								REORDER	3	18	21																			
3	United Defense San Jose, Ca.		10	30	90		3	INITIAL	4	9	13																			
								REORDER	4	9	13																			
4	Tobyhanna Army Depot		10	20	60		4	INITIAL	2	10	12																			
								REORDER	2	10	12																			
5	Tobyhanna Army Depot		10	20	60		5	INITIAL	3	9	12																			
								REORDER	3	9	12																			

Exhibit P-40, Budget Item Justification Sheet

Date: February 1999

Appropriation / Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment
 P-1 Item Nomenclature: ARMY TRAINING XXI MODERNIZATION (BE4169)

Program Elements for Code B Items: Code: Other Related Program Elements:

	Prior Years	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	To Complete	Total Prog
Proc Qty												
Gross Cost	0.0	0.0	20.4	32.5	15.4	38.4	43.4	9.6	15.7	25.7	0.0	201.0
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	0.0	0.0	20.4	32.5	15.4	38.4	43.4	9.6	15.7	25.7	0.0	201.0
Initial Spares												
Total Proc Cost	0.0	0.0	20.4	32.5	15.4	38.4	43.4	9.6	15.7	25.7	0.0	201.0
Flyaway U/C												
Wpn Sys Proc U/C												

DESCRIPTION: Army Training XXI Modernization uses information technologies to enhance the planning, preparation and execution of individual (Warrior XXI) and collective (Warfighter XXI) training. It will electronically link Army's master instructors/subject matter experts to soldiers anywhere in the world to improve performance and create a virtual classroom. Army Training XXI will evaluate evolving training technologies developed by industry/academia for deployment as they enter the commercial main stream. Army Training XXI Modernization will leverage existing and future national communications infrastructure. Infrastructure acquired will be based on industry standards and compliant with the Joint Technical Architecture (JTA) and Defense Information Infrastructure Common Operating Environment (DII COE), where applicable. This will help assure not only compatibility with other military services but also that commercial, state, and other resources can be leveraged to achieve cost effective solutions to support the Total Army. Specific initiatives include Total Army Distance Learning Program/Classroom XXI (TADLP/CR XXI), Army Doctrine and Training Digital Library (ADTDL), Automated Instructional Management System - Redesign (AIMS-R), and Army Systems Approach to Training (ASAT).

Warrior XXI - Warrior XXI initiatives include TADLP and CR XXI. This effort is critical to sustain soldier/unit proficiency. The Army is and will remain primarily CONUS-based with disbursed smaller units strategically placed worldwide. For the foreseeable future, the Army will perform a far larger array of missions than in the past. Meanwhile, personnel reductions will make it increasingly difficult to provide Mobile Training Teams and New Equipment Training Teams to meet training requirements. TADLP and CR XXI provide infrastructure to implement a cost effective solution to this problem, aiding Army to maintain acceptable outyear readiness levels despite massive resource reductions. TADLP/CR XXI supported training enhancements will help reduce the current backlog of over 90K soldiers that require MOS training. Army can significantly increase levels of MOS qualification, hence readiness, with standardized Total Army courseware delivered through Distance Learning (DL) technology. Aggressive implementation of the Total Army Distance Learning Plan (TADLP) will also help compensate for the impact on outyear training backlogs of the redesign of National Guard divisions and continuing decreases in overall Army resource levels. TADLP will reduce resident training

Exhibit P-40C Budget Item Justification Sheet

Date
February 1999

Appropriation / Budget Activity/Serial No. OTHER PROCUREMENT / 2 / Communications and Electronics Equipment	P-1 Item Nomenclature ARMY TRAINING XX1 MODERNIZATION (BE4169)
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Program Elements for Code B Items	Code	Other Related Program Elements
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requirements and soldiers will spend less time in the training base and more time in units, thereby increasing readiness. TADLP/CR XXI provide the infrastructure needed to achieve these goals. Without this investment, Army schools will be unable to export the expertise and standardization provided by master instructors and subject matter experts; the full benefits of Total Army courseware already updated or currently being updated will not be realized; soldiers will not be able to receive training where and when needed; and the problem of training backlog will be exacerbated.

TADLP/CR XXI infrastructure will deliver standardized training to Active Component (AC) and Reserve (RC) Component soldiers. TADLP provides infrastructure for soldiers to train at or near their assigned station, in lieu of resident training at Army schools. CR XXI provides infrastructure at sites colocated with Army schools. Operational implementation of TADLP/CR XXI infrastructure is carefully phased to coincide with development of updated Army courseware, taking into account the number of soldiers needing training, types of training needed, and where training is needed to maximize the return on the TADLP/CR XXI investment. Tasks supported include conducting training, receiving training, developing training, and storing digitized training materials.

The TADLP/CR XXI acquisition strategy will follow a multi-phase implementation approach to achieve these objectives. FY98/99 investments provided an interim capability. They supported and enhanced existing Army training capabilities based primarily on a synchronous training model to provide an immediate return on investment. Concurrently, Army teamed with industry and academia to develop an overarching functional and technical architecture to support the evolution of the Total Army Distance Learning Plan (TADLP) into the objective Army training model. This model is based on an optimized mix of synchronous and asynchronous learning techniques. Beginning in FY00, Army will begin acquiring TADLP/CR XXI infrastructure to both enhance capabilities provided in FY98/99 and to support development/acquisition of learning tools based on the objective Army training model. This investment leverages advances in information technology and learning theory to make training more available/affordable for the total force and improve overall readiness.

Warfighter XXI - Warfighter XXI initiatives include the Army Doctrine and Training Digital Library (ADTDL), the Automated Instructional Management System - Redesign (AIMS-R), and the Army Systems Approach to Training (ASAT). Warfighter XXI initiatives support TADLP/CR XXI through the Warfighter XXI Campaign Plan. The Warfighter XXI Campaign Plan provides a strategic vision and an integrated plan for how the future Army will train battle staff and collective tasks. Result will be an automated training management system designed to enhance the planning, resourcing, execution, and assessment of battle-focused training for the unit and unit commander. The ADTDL stores the data and provides unit and institutional commanders access to data necessary to plan, resource, execute, and assess training.

JUSTIFICATION: FY 00/01 funds allow acquisition of Warrior XXI (TADLP and CR XXI) and Warfighter XXI (ADTDL, AIMS-R and ASAT) infrastructure to augment and enhance existing Army training capabilities based on a synchronous training model and implement enhanced training capabilities based on asynchronous training methods. This will help maximize both the utility of the already installed training infrastructure and the return on future training infrastructure investments.

Exhibit P-5, Weapon OPA Cost Analysis		Appropriation/ Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment			P-1 Line Item Nomenclature: ARMY TRAINING XX1 MODERNIZATION (BE4169)			Weapon System Type:			Date: February 1999		
OPA Cost Elements		FY 98			FY 99			FY 00			FY 01		
ID	CD	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
		\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000
Warrior XXI (TADLP and CR XXI)					253	3	84	6239	74	84	3024	36	84
ATM Gateway (Router/Multiplexer)	A												
16 Student Classrooms (Data Process Servers, Desktop PCs, Audio/Video Equipment, Comm Infrastructure and Raised Floors)	A	12817	55	VAR	20710	122	VAR	1329	7	VAR	24232	118	VAR
12 Student Classrooms (Data/Process Servers, Desktop/Laptop PCs, Audio/Video Equipment, Comm Infrastructure and Raised Floors)	A	1789	6	VAR	2981	10	VAR	1309	7	VAR	3580	10	VAR
20 Student Classrooms (Data/Process Servers, Desktop PCs, Audio/Video Equipment, Comm Infrastructure and Raised Floors)	A	1838	7	VAR	3119	10	VAR	1672	7	VAR	2348	10	VAR
Digital Training Access Centers (Data/Process Servers, Desktop PCs, Printers and Comm Infrastructure)	A	462	7	66	66	1	66	132	2	66	198	3	66
Warfighter XXI (Data/Video Servers, desktop PCs, Printers, Optical Scanners and Comm Infrastructure)	A	3455	VAR	VAR	5416	VAR	VAR	4680	VAR	VAR	4975	VAR	VAR
VAR - Configurations vary by user requirements and site													
TOTAL		20361			32545			15361			38357		

Exhibit P-5a, Budget Procurement History and Planning

Date:
February 1999

Appropriation / Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment		Weapon System Type:			P-1 Line Item Nomenclature: ARMY TRAINING XXI MODERNIZATION (BE4169)					
WBS Cost Elements: Fiscal Years	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY Each	Unit Cost \$000	Specs Avail Now?	Date Revsn Avail	RFP Issue Date
Warrior XXI										
ATM Gateway (Router/Multiplexer)										
FY 99	VAR*	C/FP	CAC-W	Mar-99	Jun-99	3	84	YES		
FY 00	TBS	C/FP	CAC-W	Jan-00	Apr-00	74	84	YES		
FY 01	TBS	C/FP	CAC-W	Jan-01	Apr-01	36	84	YES		
16 Student Classrooms										
FY 98	VAR*	C/FP	CAC-W	Feb-98	May-98	55	VAR	YES		
FY 99	VAR*	C/FP	CAC-W	Mar-99	Jun-99	122	VAR	YES		
FY 00	TBS	C/FP	CAC-W	Jan-00	Apr-00	7	VAR	YES		
FY 01	TBS	C/FP	CAC-W	Jan-01	Apr-01	118	VAR	YES		
12 Student Classrooms										
FY 98	VAR*	C/FP	CAC-W	Feb-98	May-98	6	VAR	YES		
FY 99	VAR*	C/FP	CAC-W	Mar-99	Jun-99	10	VAR	YES		
FY 00	TBS	C/FP	CAC-W	Jan-00	Apr-00	7	VAR	YES		
FY 01	TBS	C/FP	CAC-W	Jan-01	Apr-01	10	VAR	YES		
20 Student Classrooms										
FY 98	VAR*	C/FP	CAC-W	Jan-98	Apr-98	7	VAR	YES		
FY 99	VAR*	C/FP	CAC-W	Mar-99	Jun-99	10	VAR	YES		
FY 00	TBS	C/FP	CAC-W	Jan-00	Apr-00	7	VAR	YES		
FY 01	TBS	C/FP	CAC-W	Jan-01	Apr-01	10	VAR	YES		
(con't)										

REMARKS: * Warrior XXI Contractors are: Sprint, Herndon, VA (televideo equipment); The Portable Warehouse, Anaheim, CA; and Government Technology Services, Inc., Chantilly, VA, (PCs); Maxaccess, Summerville, SC and Flexspace Incorporated, Seattle, WA (system cabling)
 ** Warfighter XXI Contractors are: Edgemark Systems, Silver Spring, MD (ADTDL infrastructure); Lockheed Martin, Springfield, VA and MCS, Arlington, VA (AIMS-R and ASAT infrastructure)
 CAC-W-CECOM Acquisition Center- Washington
 VAR - Configurations vary by user requirements and site

Exhibit P-5a, Budget Procurement History and Planning

Date: February 1999

Appropriation / Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment		Weapon System Type:			P-1 Line Item Nomenclature: ARMY TRAINING XX1 MODERNIZATION (BE4169)					
WBS Cost Elements: Fiscal Years	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY Each	Unit Cost \$000	Specs Avail Now?	Date Revsn Avail	RFP Issue Date
Digital Training Access Centers										
FY 98	VAR*	C/FP	CAC-W	Feb-98	May-98	7	66	YES		
FY 99	VAR*	C/FP	CAC-W	Mar-99	Jun-99	1	66	YES		
FY 00	TBS	C/FP	CAC-W	Jan-00	Apr-00	2	66	YES		
FY 01	TBS	C/FP	CAC-W	Jan-01	Apr-01	3	66	YES		
Warfighter XXI										
FY 98	VAR**	C/FP	TRADOC	Feb-98	May-98	VAR	VAR	YES		
FY 99	TBS	C/FP	TRADOC	Mar-99	Jun-99	VAR	VAR	YES		
FY 00	TBS	C/FP	TRADOC	Jan-00	Apr-00	VAR	VAR	YES		
FY 01	TBS	C/FP	TRADOC	Jan-01	Apr-01	VAR	VAR	YES		

REMARKS: * Warrior XXI Contractors are: Sprint, Herndon, VA (televideo equipment); The Portable Warehouse, Anaheim, CA; and Government Technology Services, Inc., Chantilly, VA, (PCs); Maxaccess, Summerville, SC and Flexspace Incorporated, Seattle, WA (system cabling)
 ** Warfighter XXI Contractors are: Edgemark Systems, Silver Spring, MD (ADTDL infrastructure); Lockheed Martin, Springfield, VA and MCS, Arlington, VA (AIMS-R and ASAT infrastructure)
 CAC-W-CECOM Acquisition Center- Washington
 VAR - Configurations vary by user requirements and site

Exhibit P-40, Budget Item Justification Sheet

Date:

February 1999

Appropriation / Budget Activity/Serial No:

OTHER PROCUREMENT / 2 / Communications and Electronics Equipment

P-1 Item Nomenclature:

AUTOMATED DATA PROCESSING EQUIP (BD3000)

Program Elements for Code B Items:

Code:

Other Related Program Elements:

	Prior Years	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	To Complete	Total Prog
Proc Qty												
Gross Cost	1761.1	138.8	139.2	123.4	138.6	191.6	184.6	227.4	154.0	142.2	0.0	3200.9
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	1761.1	138.8	139.2	123.4	138.6	191.6	184.6	227.4	154.0	142.2	0.0	3200.9
Initial Spares												
Total Proc Cost	1761.1	138.8	139.2	123.4	138.6	191.6	184.6	227.4	154.0	142.2	0.0	3200.9
Flyaway U/C												
Wpn Sys Proc U/C												

DESCRIPTION: This budget line supports the Army's sustaining base automation systems. The Army's primary sustaining base information management (IM) goal is to provide information services for the sustainment and readiness of the forces at minimum cost.

JUSTIFICATION: The current sustaining base automation infrastructure is largely overstressed and reaching technological obsolescence. A stable modernization program is essential to maintain efficiency, increase productivity, and reduce operation and maintenance costs through technological advancement. As the Army modernizes its warfighting forces for the twenty-first century, it must leverage the use of automation technology to streamline and modernize its management information systems to support C4I for the Warrior and power projection strategies, split base operations, and downsized force structures. The effectiveness of the CONUS split base operations strategy to perform as the rear area for deployed forces as well as the mobilization, force projection, and redeployment platform is increasingly dependent upon use of state-of-the-art automation technology to provide responsive combat service support to the warfighter in the areas of command and control, logistics, personnel, finance, transportation, medical and other sustaining base functions.

Exhibit P-5, Weapon OPA Cost Analysis		Appropriation/ Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment			P-1 Line Item Nomenclature: AUTOMATED DATA PROCESSING EQUIP (BD3000)			Weapon System Type:			Date: February 1999			
OPA Cost Elements		ID	FY 98			FY 99			FY 00			FY 01		
		CD	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
			\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000
OPTICAL DIGITAL EQUIP			5362			2864			4163			3653		
RESERVE HQ AUTOMATION			771			790			1584			1615		
SUSTAINING BASE INFO SVC (SBIS)			6923											
STRATEGIC LOGISTICS PROGRAM (SLP)			21411			33099			21931			19932		
HQ MANAGEMENT INFORMATION SYSTEMS			3463			5678			5512			5528		
JOINT COMPUTR AIDED ACQ & LOG SPT			34478			26963			32347			39750		
ADPE FOR NON TAC MGMT INFO SYS			219			254								
MACOM AUTOMATION SYSTEMS			24910			30633			38894			83322		
LOGISTICS AUTOMATION SYSTEMS			5834			2970			8214			7525		
PERSONNEL AUTOMATION SYSTEMS			35465			19701			25522			29821		
HIGH PERFORMANCE COMPUTING			399			418			440			434		
TOTAL			139235			123370			138607			191580		

Exhibit P-40, Budget Item Justification Sheet

Date: February 1999

Appropriation / Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment
 P-1 Item Nomenclature: OPTICAL DIGITAL EQUIP (BD3956)

Program Elements for Code B Items: Code: Other Related Program Elements:

	Prior Years	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	To Complete	Total Prog
Proc Qty												
Gross Cost	31.5	1.3	5.4	2.9	4.2	3.7	2.8	3.6	3.5	3.5	0.0	62.5
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	31.5	1.3	5.4	2.9	4.2	3.7	2.8	3.6	3.5	3.5	0.0	62.5
Initial Spares												
Total Proc Cost	31.5	1.3	5.4	2.9	4.2	3.7	2.8	3.6	3.5	3.5	0.0	62.5
Flyaway U/C												
Wpn Sys Proc U/C												

DESCRIPTION: This supports high payoff initiatives to replace obsolete, inefficient records management systems with state-of-the-art optical digital equipment and other electronic recordkeeping systems. This technology will reduce operations and maintenance costs and improve the mission effectiveness and productivity of records managers throughout the Army.

PERSONNEL ELECTRONIC RECORD MANAGEMENT SYSTEMS (PERMS): PERMS provides an electronic system for the maintenance of military personnel files at headquarters level Army Personnel Records Management Centers for Active Army, Army National Guard, and Army Reserve. PERMS will continue to convert current paper and microfiche personnel files to digital images. PERMS will allow for selective retrieval of individual files, groups of files or individual documents within these files. Retrieval selections can be individually tailored to the needs of the soldier, their personnel managers and selection/promotion boards.

DOCUMENT IMAGING PROCESSING SYSTEMS: This ensures Army compliance with Code of Federal Regulations (CFR) 36 and 41 for economy and efficiency in documenting Army business. Use of current and emerging technology reduces operations and maintenance costs and improves mission effectiveness and availability of records throughout the Army.

JUSTIFICATION:

PERSONNEL ELECTRONIC RECORD MANAGEMENT SYSTEMS (PERMS): FY00/01 funds support reengineering and upgrade of PERMS hardware, remote access and Year 2000 upgrades.

DOCUMENT IMAGING PROCESSING SYSTEMS: FY00/01 funds procure hardware and software required for integration of document imaging and related recordkeeping technology solutions supporting Army-wide management of records. These funds will maximize the benefits achieved through selective integration of technology into the recordkeeping process.

Exhibit P-5, Weapon OPA Cost Analysis		Appropriation/ Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment			P-1 Line Item Nomenclature: OPTICAL DIGITAL EQUIP (BD3956)			Weapon System Type:			Date: February 1999			
OPA Cost Elements		ID	FY 98			FY 99			FY 00			FY 01		
		CD	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
			\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000
Document Imaging Processing System		A	803	VAR	VAR	843	VAR	VAR	872	VAR	VAR	862	VAR	VAR
Personnel Electronic Record Management Systems (PERMS)		A	4559	VAR	VAR	2021	VAR	VAR	3291	VAR	VAR	2791	VAR	VAR
TOTAL			5362			2864			4163			3653		

Exhibit P-5a, Budget Procurement History and Planning

Date:
February 1999

Appropriation / Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment		Weapon System Type:			P-1 Line Item Nomenclature: OPTICAL DIGITAL EQUIP (BD3956)					
WBS Cost Elements: Fiscal Years	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY Each	Unit Cost \$000	Specs Avail Now?	Date Revsn Avail	RFP Issue Date
Document Imaging Processing System										
FY 98	AINS	C/FP	FEDSIM	Dec-97	Jan-98	VAR	VAR	YES	NO	
FY 99	TBS	C/FP	FEDSIM	Feb-99	Mar-99	VAR	VAR	YES	NO	
FY 00	TBS	C/FP	FEDSIM	Dec-99	Jan-00	VAR	VAR	YES	NO	
FY 01	TBS	C/FP	FEDSIM	Dec-00	Jan-01	VAR	VAR	YES	NO	
Personnel Electronic Record Management Systems (PERMS)										
FY 98	PRC	C/FP	FEDSIM	Jan-98	Apr-98	VAR	VAR	YES	NO	
FY 99	TBS	C/FP	FEDSIM	Feb-99	Mar-99	VAR	VAR	YES	NO	
FY 00	TBS	C/FP	TBS	Dec-99	Mar-00	VAR	VAR	YES	NO	
FY 01	TBS	C/FP	TBS	Dec-00	Mar-01	VAR	VAR	YES	NO	

REMARKS: AINS - Advanced Information Network Systems, Inc., Rockville, MD
 FEDSIM - Federal Systems Integration Management Center, Falls Church, VA
 PRC - Planning Research Corp., McLean, VA
 VAR - Unit costs and quantities vary by configuration.

Exhibit P-40, Budget Item Justification Sheet

Date: February 1999

Appropriation / Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment
 P-1 Item Nomenclature: STRATEGIC LOGISTICS PROGRAM (SLP) (BD7000)

Program Elements for Code B Items: Code: Other Related Program Elements:

	Prior Years	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	To Complete	Total Prog
Proc Qty												
Gross Cost	65.8	20.3	21.4	33.1	21.9	19.9	20.5	20.9	21.3	21.9	0.0	267.0
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	65.8	20.3	21.4	33.1	21.9	19.9	20.5	20.9	21.3	21.9	0.0	267.0
Initial Spares												
Total Proc Cost	65.8	20.3	21.4	33.1	21.9	19.9	20.5	20.9	21.3	21.9	0.0	267.0
Flyaway U/C												
Wpn Sys Proc U/C												

DESCRIPTION: Budget line supports the Total Distribution Program (TDP), an initiative originally put in place by the Vice Chief of Staff, Army (VCSA) to correct deficiencies in the distribution of materiel, equipment, personnel replacements, and mail, which occurred during Operation Desert Shield/Storm. The program is being refocused, at the direction of the TDP General Officer Steering Committee (GOSC), to execute the Distribution Based Logistics System (DBLS) of the future, supporting the Revolution in Military Logistics (RML). The transformation of Army logistics into a distribution-based system relies on distribution velocity rather than redundant mass to provide support to the warfighter. The refocused program is envisioned to integrate all logistics plans, programs, and issues which support the Force Sustainment Domain of the RML. The refocusing effort will combine those still relevant lessons learned during Desert Shield/Storm with emerging issues and projects necessary to achieve the envisioned end state of a DBLS. The purpose of the TDP initiative is to develop an effective distribution pipeline with Total Asset Visibility (TAV) from initial shipping point to destination. Critical corrective actions include development and fielding of communications capability for logistics, the use of emerging technologies to enhance visibility and materiel accountability, upgrade of critical distribution management systems, fielding and maintenance of the required distribution infrastructure, as well as doctrinal changes in distribution management. The TDP supports "Improving Logistics Support in Combat Zones", The Army Strategic Logistics Plan and The DoD Logistics Strategic Plan.

JUSTIFICATION: FY 00/01 funding develops communications capability for transmission of logistics information both within a theater of operations and between the theater and the sustaining base. Work is underway to interface the Tactical Packet Network (TPN), operating in the tactical environment, with the communications architecture of sustaining base systems, enabling the warfighter to pass data directly to the sustaining base. During the Gulf War, lack of such communications capability was a critical deficiency, which hampered the distribution process. In addition, the volume of materiel moving through the logistics pipeline exceeds the ability to manually track materiel, maintain accurate records and provide timely information to decision makers. Funding supports procurement of Automatic Identification Technology (AIT) such as Radio Frequency (RF) Tags to provide source data automation. RF technology provides rapid and accurate capture, retrieval and transmission of supply/transportation information for container/pallet contents, providing "inside-the-box" visibility of container contents and a means to track critical materiel throughout the distribution pipeline.

Exhibit P-5, Weapon OPA Cost Analysis		Appropriation/ Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment			P-1 Line Item Nomenclature: STRATEGIC LOGISTICS PROGRAM (SLP) (BD7000)			Weapon System Type:			Date: February 1999			
OPA Cost Elements		ID	FY 98			FY 99			FY 00			FY 01		
		CD	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
			\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000
Packet Switch Upgrade/AN TTC 39A to 39E EEE Program		A	9200	5*	VAR	1000	VAR	VAR	900	VAR	VAR	900	VAR	VAR
CSS Automation Integration Comm Hardware & Software		A	4244	120*	VAR	6000	VAR	VAR	5855	VAR	VAR	5892	VAR	VAR
Automation ID Technology RF Tags/Interrogators/RF Links/Retrievers Warfighter Rapid Acquisition Program (WRAP) RFTAGS		A	6767	VAR	VAR	26099	VAR	VAR	15176	VAR	VAR	13140	VAR	VAR
RF Tags		A	1200	VAR	VAR									
TOTAL			21411			33099			21931			19932		

Exhibit P-5a, Budget Procurement History and Planning

Date:
February 1999

Appropriation / Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment				Weapon System Type:			P-1 Line Item Nomenclature: STRATEGIC LOGISTICS PROGRAM (SLP) (BD7000)				
WBS Cost Elements: Fiscal Years	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY Each	Unit Cost \$000	Specs Avail Now?	Date Revsn Avail	RFP Issue Date	
Packet Switch Upgrade/Single Shelter Switch											
FY 98	GTE	C/FP	CECOM	Dec-97	Feb-98	5	VAR*	YES	NO		
FY 99	TBS	C/FP	CECOM	Apr-99	Jul-99	VAR	VAR*	YES	NO		
FY 00	TBS	C/FP	CECOM	Dec-99	Feb-00	VAR	VAR*	YES	NO		
FY 01	TBS	C/FP	CECOM	Dec-00	Feb-01	VAR	VAR*	YES	NO		
CSS Automation Integration Comm Hardware & Software											
FY 98	VAR***	C/FP	CECOM	May-98	Jul-98	120	VAR*	YES	NO		
FY 99	TBS	C/FP	CECOM	May-99	Jul-99	124	VAR*	YES	NO		
FY 00	TBS	C/FP	CECOM	May-00	Jul-00	VAR	VAR*	YES	NO		
FY 01	TBS	C/FP	CECOM	May-01	Jul-01	VAR	VAR*	YES	NO		
Automation ID Technology RF Tags/Interrogators/RF Links/Retrievers											
FY 98	SAVI Technology	C/FP	CECOM	Mar-98	Apr-98	VAR	VAR*	YES	NO		
FY 99	TBS	C/FP	CECOM	Mar-99	Apr-99	VAR	VAR*	YES	NO		
FY 00	TBS	C/FP	CECOM	Mar-00	Apr-00	VAR	VAR*	YES	NO		
FY 01	TBS	C/FP	CECOM	Mar-01	Apr-01	VAR	VAR*	YES	NO		
RF Tags Hardware and Associated Software											
FY 98	SAVI Technology	C/FP	PEO STAMIS	VAR**	VAR**	VAR	VAR*	YES			

REMARKS: CECOM-Communications and Electronics Command, Ft Monmouth, NJ
 PEO-STAMIS- Program Executive Office-Standard Army Management Information Systems, Ft Belvoir, VA
 VAR - Quantities vary by configuration.
 VAR* - Unit cost vary with location. Contracts vary depending on components purchased.
 VAR** - Multiple contracts awarded/delivered throughout the year.
 VAR*** - Sysorex Inc., Fairfax, VA/Motorola, Tempe, AZ/GTSI, Chantilly, VA
 SAVI Technology, Mountain View, CA
 GTE, Taunton, MA

Exhibit P-40, Budget Item Justification Sheet

Date:

February 1999

Appropriation / Budget Activity/Serial No:

OTHER PROCUREMENT / 2 / Communications and Electronics Equipment

P-1 Item Nomenclature:

RESERVE HQ AUTOMATION (BE4000)

Program Elements for Code B Items:

Code:

Other Related Program Elements:

	Prior Years	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	To Complete	Total Prog
Proc Qty												
Gross Cost	14.0	0.8	0.8	0.8	1.6	1.6	1.6	1.6	1.7	1.7	0.0	26.3
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	14.0	0.8	0.8	0.8	1.6	1.6	1.6	1.6	1.7	1.7	0.0	26.3
Initial Spares												
Total Proc Cost	14.0	0.8	0.8	0.8	1.6	1.6	1.6	1.6	1.7	1.7	0.0	26.3
Flyaway U/C												
Wpn Sys Proc U/C												

DESCRIPTION: US ARMY RESERVE (USAR) INFORMATION MANAGEMENT MASTER PLAN (USAR IMMP): The USAR IMMP provides automation support for U.S. Army Reserve Personnel Command (AR-PERSCOM) mission by providing the highest quality life cycle personnel management and services resulting in a trained and ready force in support of the National Military Strategy. AR-PERSCOM commands and controls the Active Guard Reserve (AGR), Individual Mobilization Augmentee (IMA) and Individual Ready Reserve (IRR) soldiers; manages USAR Selected Reserve end strength; develops and sustains USAR personnel through officer and enlisted professional development education, Military Occupational Specialty (MOS) qualification, evaluations, and promotions; supports Commander-in-Chief (CINC)/Major Command (MACOM) requirements for exercises, site/mission support, intelligence and counterdrug demand reduction; and manages Reservists retirement transition, retirement pay processing, and veterans affairs. The Total Army Personnel Data Base (TAPDB) Reserve is the "Top-Of-The-System" central repository of Reserve Personnel data in support of the Army's Personnel Enterprise System. AR-PERCOM is responsible for providing the data necessary for the implementation of the Reserve Component Automation System (RCAS), developing interim interface systems that support phased fielding of RCAS, and developing end-state interfaces between TAPDB -Reserve and RCAS.

JUSTIFICATION: FY00/01 funds buy hardware and software to support improved economies and efficiencies in USAR Personnel Management. Increased automation support is vital to achieve mandated civilian personnel reductions of 35% since FY 93, increase overall productivity, and provide a trained and deployable force in support of the National Military Strategy. Program funding will be key in meeting this goal, and continuing the migration and reengineering of Reserve business processes to a client server environment. This migration includes the integration of imaging (Personnel Electronic Records Management System (PERMS) imaging into other Reserve business processing using Application Program Interfaces (API), in support of personnel and mobilization systems critical to warfighting, accountability, interoperability and veterans.

Exhibit P-5, Weapon OPA Cost Analysis		Appropriation/ Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment			P-1 Line Item Nomenclature: RESERVE HQ AUTOMATION (BE4000)			Weapon System Type:			Date: February 1999			
OPA Cost Elements		ID	FY 98			FY 99			FY 00			FY 01		
		CD	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
			\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000
US Army Reserve Information Management Master Plan (USARIMMP) Servers, LANs, Software, Storage Devices		A	771	1	771	790	1	790	1584	1	1584	1615	1	1615
TOTAL			771			790			1584			1615		

Exhibit P-5a, Budget Procurement History and Planning

Date: February 1999

Appropriation / Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics
 Equipment

Weapon System Type:

P-1 Line Item Nomenclature: RESERVE HQ AUTOMATION (BE4000)

WBS Cost Elements: Fiscal Years	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY Each	Unit Cost \$000	Specs Avail Now?	Date Revsn Avail	RFP Issue Date
US Army Reserve Information Management Master Plan (USARIMMP) Servers, LANs, Software, Storage Devices										
FY 98	VAR	C/FP	GSA	Feb-98	Mar-98	1	771	YES	NO	
FY 99	TBS	C/FP	GSA	Feb-99	Mar-99	1	790	YES	NO	
FY 00	TBS	C/FP	GSA	Mar-00	Apr-00	1	1584	YES	NO	
FY 01	TBS	C/FP	GSA	Feb-01	Mar-01	1	1615	YES	NO	

REMARKS: GSA - General Services Administration, Heartland Region, Kansas City, MO
 VAR - International Business Machine (IBM) Corp, Dallas TX and Cabletron Systems, Rochester, NH

Exhibit P-40, Budget Item Justification Sheet

Date:

February 1999

Appropriation / Budget Activity/Serial No:

OTHER PROCUREMENT / 2 / Communications and Electronics Equipment

P-1 Item Nomenclature:

ADPE FOR NON TAC MGMT INFO SYS (BE4150)

Program Elements for Code B Items:

Code:

Other Related Program Elements:

	Prior Years	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	To Complete	Total Prog
Proc Qty												
Gross Cost	330.6	0.2	0.2	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	331.3
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	330.6	0.2	0.2	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	331.3
Initial Spares												
Total Proc Cost	330.6	0.2	0.2	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	331.3
Flyaway U/C												
Wpn Sys Proc U/C												

DESCRIPTION: This budget line supports the Scaled Model Signature Measurement Facility (SMSMFAC) within the Intelligence and Security Command (INSCOM). The SMSMFAC laboratory develops signature information that is vital to the development, testing, fielding, and reprogramming of present and future smart sensor and munitions systems.

Exhibit P-5, Weapon OPA Cost Analysis		Appropriation/ Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment			P-1 Line Item Nomenclature: ADPE FOR NON TAC MGMT INFO SYS (BE4150)			Weapon System Type:			Date: February 1999			
OPA Cost Elements		ID	FY 98			FY 99			FY 00			FY 01		
		CD	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
			\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000
Scaled Model Signature Measurement Facility (SMSMFAC)		A	219	1	219	254	1	254						
TOTAL			219			254								

Exhibit P-5a, Budget Procurement History and Planning

Date:
February 1999

Appropriation / Budget Activity/Serial No:
OTHER PROCUREMENT / 2 / Communications and Electronics
Equipment

Weapon System Type:

P-1 Line Item Nomenclature:
ADPE FOR NON TAC MGMT INFO SYS (BE4150)

WBS Cost Elements: Fiscal Years	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY Each	Unit Cost \$000	Specs Avail Now?	Date Revsn Avail	RFP Issue Date
Scaled Model Signature Measurement Facility (SMSMFAC)										
FY 98	University of MA	Option	INSCOM	Dec-97	Jan-98	1	219	YES	NO	
FY 99	University of MA	Option	INSCOM	Jan-99	Feb-99	1	254	YES	NO	

REMARKS: University of MA, Lowell Research Foundation, Lowell, MA
Option - Already negotiated
INSCOM - Intelligence Security Command

Exhibit P-40, Budget Item Justification Sheet

Date: February 1999

Appropriation / Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment
 P-1 Item Nomenclature: HIGH PERFORMANCE COMPUTING (BE4152)

Program Elements for Code B Items: Code: Other Related Program Elements:

	Prior Years	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	To Complete	Total Prog
Proc Qty												
Gross Cost	90.7	0.4	0.4	0.4	0.4	0.4	0.5	0.5	0.5	0.5	0.0	94.8
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	90.7	0.4	0.4	0.4	0.4	0.4	0.5	0.5	0.5	0.5	0.0	94.8
Initial Spares												
Total Proc Cost	90.7	0.4	0.4	0.4	0.4	0.4	0.5	0.5	0.5	0.5	0.0	94.8
Flyaway U/C												
Wpn Sys Proc U/C												

DESCRIPTION: This program satisfies critical needs for advanced computational technology for Army scientists, engineers and analysts, and represents the leading edge of high speed processing. This capability is not available through other technology and is designed to solve problems which cannot be resolved in other ways. The program provides for access to supercomputing resources consisting of networked Supercomputers at various CONUS locations. Supercomputer systems are required to satisfy critical research and development missions in combat and materiel development programs. Significant advances in supercomputer technology have provided increases in both speed and memory. This is essential for performing fully time-dependent, three-dimensional computations and simulations directed at major new weapon designs or battlefield management. The resultant use of this advanced high-performance computing technology is the generation of very large data sets. In order to effectively and efficiently process this data, robotic mass storage systems are required. Examples of the major Army applications best suited to supercomputer technology include battlefield management, modeling/simulation, weapons systems design, terrain analysis, mechanical design (structural and dynamic vehicles), nuclear survivability, and material dynamics and composition. Supercomputers are contributing to efforts for high leverage, high payoff programs which exploit technological advances, reduce logistics burdens, lower acquisition and operation and maintenance costs, and provide required lethality at reduced weight and volume.

JUSTIFICATION: FY 00-01 funds provide local site and Army specific automation infrastructure in order to allow for the effective use of the Army Research Lab (ARL), which is one of four DoD Major Shared Resource Centers (MSRCs). Funding will procure mass storage, work stations, and network connectivity for Army users of the ARL MSRC and its associated Distributed Centers. The DoD High Performance Computing Modernization Program (HPCMP) is currently spending over \$200M on the Centers but is not providing any funding for service specific infrastructure. Funds will leverage these assets being procured through the DoD HPCMP and capitalize on leading edge technology in multi-terabyte mass storage systems.

Exhibit P-5, Weapon OPA Cost Analysis		Appropriation/ Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment			P-1 Line Item Nomenclature: HIGH PERFORMANCE COMPUTING (BE4152)			Weapon System Type:			Date: February 1999			
OPA Cost Elements		ID	FY 98			FY 99			FY 00			FY 01		
		CD	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
			\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000
Mass Storage Upgrade Input/Output Technology		A	399	VAR	VAR									
Mass Storage Upgrade Network Connectivity Workstations		A				418	VAR	VAR	440	VAR	VAR	434	VAR	VAR
TOTAL			399			418			440			434		

Exhibit P-5a, Budget Procurement History and Planning

Date:
February 1999

Appropriation / Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment				Weapon System Type:			P-1 Line Item Nomenclature: HIGH PERFORMANCE COMPUTING (BE4152)				
WBS Cost Elements: Fiscal Years	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY Each	Unit Cost \$000	Specs Avail Now?	Date Revsn Avail	RFP Issue Date	
Mass Storage Upgrade Input/Output Technology FY 98	VAR*	C/FP	ARL	Feb-98	Mar-98	VAR	VAR	YES	NO		
Mass Storage Upgrade Network Connectivity FY 99	TBS	C/FP	Acquisition Center-APG	Feb-99	Mar-99	VAR	VAR	YES	NO		
FY 00	TBS	C/FP	Acquisition Center-APG	Feb-00	Mar-00	VAR	VAR	NO	NO		
FY 01	TBS	C/FP	Acquisition Center-APG	Feb-01	Mar-01	VAR	VAR	NO	NO		

REMARKS: VAR - Unit cost and quantities vary by configuration
 VAR*-Fed Data Corp, Bethesda,MD; Edgemark Sys, Silver Spring,MD; Fore Systems, Vienna, VA
 ARL - Army Research Laboratory, Aberdeen Proving Grounds, MD
 APG - Aberdeen Proving Grounds, MD

Exhibit P-40, Budget Item Justification Sheet

Date: February 1999

Appropriation / Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment
 P-1 Item Nomenclature: HQ MANAGEMENT INFORMATION SYSTEMS (BE4161)

Program Elements for Code B Items: Code: Other Related Program Elements:

	Prior Years	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	To Complete	Total Prog
Proc Qty												
Gross Cost	113.5	5.1	3.5	5.7	5.5	5.5	5.7	5.8	5.2	5.3	0.0	160.7
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	113.5	5.1	3.5	5.7	5.5	5.5	5.7	5.8	5.2	5.3	0.0	160.7
Initial Spares												
Total Proc Cost	113.5	5.1	3.5	5.7	5.5	5.5	5.7	5.8	5.2	5.3	0.0	160.7
Flyaway U/C												
Wpn Sys Proc U/C												

DESCRIPTION: Provides funds for information systems that support Army headquarters worldwide. These systems are also included in The Army Modernization Plan.

JUSTIFICATION:
HEADQUARTERS, DEPARTMENT OF THE ARMY (HQDA) AUTOMATIC DATA PROCESSING EQUIPMENT (ADPE): Provides for information management support to Headquarters, Department of the Army (HQDA), across the entire Information Management (IM) spectrum. HQDA ADPE supports the joint Office of the Secretary of the Army/Army Staff (OSA/ARSTAF) Senior Planning Group and other DoD Information Technology (IT) initiatives. FY 00/01 funds purchase hardware and software to expand and upgrade the HQDA Tracking System. This provides a flexible, integrated, automated system to support the control and management of Executive correspondence, internal actions, and file documentation. Further, it will streamline the flow process of actions within HQDA, reduce the amount of data re-entry and duplication of information, promote data sharing, and provide immediate access to information. FY 00/01 funds will also purchase hardware and software for the Concepts Analysis Agency (CAA) ADP Modernization project. This will enable the Army's principal theater-level study agency to perform quick reaction analysis for the Army Staff and Major Commands (MACOMS). Decisions based on CAA analyses impact force structure and modernization, logistics, personnel, finance, and every functional area of the Army. FY 00/01 funds also purchase hardware and software for the Defense Message Service (DMS) for individual users on the HQDA staff. The DMS program was established by the Under Secretary of Defense (Acquisition) to facilitate and coordinate development of an integrated common-user message system within DoD. The primary goal of DMS is to provide a message system that satisfies writer-to-reader requirements to reduce cost and staffing levels; secondary goals include improvement of functionality, security, survivability, and availability.

Exhibit P-40C Budget Item Justification Sheet

Date

February 1999

Appropriation / Budget Activity/Serial No.

OTHER PROCUREMENT / 2 / Communications and Electronics Equipment

P-1 Item Nomenclature

HQ MANAGEMENT INFORMATION SYSTEMS (BE4161)

Program Elements for Code B Items

Code

Other Related Program Elements

(continued)

ARMY MODEL IMPROVEMENT PROGRAM (AMIP): AMIP is designed to improve the Army's analytic capability by providing a consistent basis to support decision making affecting force structure, doctrine, and procurement. AMIP directly supports Principle 10, Exploit Modeling and Simulations, of the Army Enterprise Strategy. By using state-of-the-art hardware and new software technology, AMIP will develop an integrated family of computerized combined arms combat models with supporting data bases. These models will support studies, research, and training. Component models will be interfaced and tested for validity and consistency of representations and results. The FY00/01 funds procure state-of-the-art computer simulation and graphics equipment/software. The equipment will be used by numerous analysis agencies, MACOMs, and national laboratories to develop more efficient, cost effective, realistic scenarios and real-time simulations of complex combat and associated processes for analysis of data. The achievement of these goals will provide readily understood, valid, and more responsive input into the decision making process affecting weapons procurement, force development, force deployment, tactics, sustainment, and enhance the overall warfighting capability of the Army. The funds will also provide for the upgrading of existing simulations/support equipment and software.

HOUSING OPERATIONS MANAGEMENT SYSTEM (HOMES): HOMES is a standard management system designed to provide efficient processing of soldiers' housing needs. It consists of four subsystems: Family Housing Subsystem (FHS) consisting of : (1) Assignments and Terminations (A&T) that supports the management of Government controlled housing; (2) Community Homefinding Relocation Referral Services (CHRRS) for help in locating off-post housing; Billeting (BIL) supports transient billets, Fisher houses, guesthouses, BOQs & SBEQs; Furnishings Management (FURN) that supports controlling and managing the furnishings inventory; and System Administration (SA) that provides a menu driven capability for administering the hardware and software for the above systems. HOMES increases availability of housing services, housing utilization, housing inventory control and the control of Basic Allowance for Quarters (BAQ). It also supports upward reporting needs and the elimination of the housing questionnaire survey process. The four subsystems are fully deployed worldwide. HOMES has been identified as a critical element of the Army Family Housing Action Plan to improve the level of housing services to soldiers and families. The system operates on INTEL 310/320's, AT&T 3B2, 486 and Pentium workstations, and HP9000 minicomputers, located in the local housing and billeting offices. FY 00/01 funds purchase replacement equipment for the FHS/FURN/SA subsystems. The equipment included will be computers, printers, high speed batch printers, and communications equipment. HOMES is a centrally managed system, where all software is developed and all equipment is identified, tested and approved centrally. Since initial fielding of HOMES, Army installation Housing Offices have become dependent on the system to fulfill their mission--management of Army housing inventory and its military occupants. The current reassignment of Army units and concomitant relocation of personnel is too large an activity to be managed without an automated information system. An equipment failure effectively closes a housing office operation. The HOMES Project Plan has been modified to accommodate re-engineering of Army Housing operations. The re-engineering focuses on improving efficiency of operations and support for Commercial Venture Initiatives (CVI). The re-engineered system will be Windows NT based and conform with the directions promulgated in the DoD Technical Architecture For Information Management (TAFIM). This architecture will support the integration of the HOMES system with local office automation.

STRATEGIC C2 FACILITIES: Provides funds for the Army Operations Center (AOC) and the Command and Control Support Agency. Funding is necessary to maintain state-of-the-art information management capability for the Army Staff, DoD Domestic Support (DOMS) activities and senior leadership of the Army and to obtain a completely integrated multi-level secure system with full connectivity to DoD's Global Command and Control System (GCCS) as well as connectivity to Federal and local government activities engaged in Disaster support operations. The system currently includes the HQDA GCCS/GCCS-A server suite of equipment; extensive COTS, and contractor developed support software; a variety of workstations connected to two separate Local Area Networks (LAN) with over 250 users; an Automated Message Handling System (AMHS); a Credential Access System (CAS); and a Briefing Display and Support System (BDS), and application tools to manage Army readiness, mobilization, and deployment data. A fully integrated desktop with user friendly tools and access to most Army and DoD databases is a key AOC goal. The system supports every military operation involving the Army and every Disaster relief operation engaged in by DoD. It allows the Senior Army leadership and Army/DoD officers to quickly access, manipulate, display, brief and send command and control directives and mission essential information. The system supports day-to-day operations within the Army Operations Directorate, all crisis actions and JCS/HQDA exercises, as well as all DoD DOMS. FY 00/01 funds will procure critical components for the LAN and BDS systems. These components will improve reliability, broaden and enhance systems management capabilities, bolster security, and maintain compatibility and integration with the GCCS/GCCS-A and other Army unique and Joint Staff systems. Procurements will focus on additional computer operations management tools; increased critical component redundancy; enhanced systems security and security monitoring; continued improvement to Crisis Action Team (CAT) Tracking System for the AOC; LAN expansion, bridges, hubs, routers, and as technology permits, implementation of Secret And Below Inter-operability (SABI).

Exhibit P-40C Budget Item Justification Sheet

Date
February 1999

Appropriation / Budget Activity/Serial No. OTHER PROCUREMENT / 2 / Communications and Electronics Equipment	P-1 Item Nomenclature HQ MANAGEMENT INFORMATION SYSTEMS (BE4161)
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Program Elements for Code B Items	Code	Other Related Program Elements
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(continued)

SITE R INTEGRATION PROGRAM (SRIP): This budget line supports maintenance and modernization of the C4I infrastructure at the Alternate Joint Communication Center (AJCC) - Site R. The AJCC includes communications facilities at Site C, Site RT, and the underground facility at Site R which houses the Alternate National Military Command Center (ANMCC). As the alternate site for the National Military Command Center (NMCC), Site R must provide facilities for a seamless transition of NMCC functions in times of crisis or when the NMCC is not otherwise available. The SRIP ensures that as the NMCC systems and operating procedures evolve, the Site R facilities keep pace and are capable of supporting the full range of national Command and Control missions. FY 00/01 funds purchase hardware, software, and engineering services for a site-wide classified local area network (LAN) for the Global Command and Control System to support the National Military Command Center-R. FY 01 funds also purchase hardware and software for completion of the unclassified LAN supporting all Site R tenants with e-mail, office automation, and unclassified world-wide connectivity.

Exhibit P-5, Weapon OPA Cost Analysis		Appropriation/ Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment			P-1 Line Item Nomenclature: HQ MANAGEMENT INFORMATION SYSTEMS (BE4161)			Weapon System Type:			Date: February 1999			
OPA Cost Elements		ID	FY 98			FY 99			FY 00			FY 01		
		CD	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
			\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000
Headquarters, Department of the Army Automated Data Processing Equipment (HQDA ADPE)		A	1277	VAR	VAR	1392	VAR	VAR	1752	VAR	VAR	1730	VAR	VAR
Army Model Improvement Program (AMIP)		A				651	VAR	VAR	587	VAR	VAR	617	VAR	VAR
Legal Automation Army-Wide Systems (LAAWS)		A	400	VAR	VAR	588	VAR	VAR						
Housing Operations Management System (HOMES)		A	426	VAR	VAR	503	VAR	VAR	455	VAR	VAR	448	VAR	VAR
Strategic C2 Facilities		A	714	VAR	VAR	685	VAR	VAR	892	VAR	VAR	879	VAR	VAR
Site R Integration Program (SRIP)		A	646	VAR	VAR	1859	VAR	VAR	1826	VAR	VAR	1854	VAR	VAR
TOTAL			3463			5678			5512			5528		

Exhibit P-5a, Budget Procurement History and Planning

Date:
February 1999

Appropriation / Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment		Weapon System Type:			P-1 Line Item Nomenclature: HQ MANAGEMENT INFORMATION SYSTEMS (BE4161)					
WBS Cost Elements: Fiscal Years	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY Each	Unit Cost \$000	Specs Avail Now?	Date Revsn Avail	RFP Issue Date
HQDA ADPE:										
-HQDA Correspondence Tracking system										
FY 98	Universal Hi Tech Development	C/FP	DSSW	Mar-98	May-98	VAR	VAR	YES		
FY 99	TBS	C/FP	DSSW	Apr-99	Jun-99	VAR	VAR	YES	NO	
FY 00	TBS	C/FP	DSSW	Mar-00	Jun-00	VAR	VAR	YES	NO	
FY 01	TBS	C/FP	DSSW	Mar-01	May-01	VAR	VAR	YES	NO	
-CAA ADP Modernization										
FY 98	IBN Corporation	C/FP	DSSW	Apr-98	Jun-98	VAR	VAR	YES		
FY 99	TBS	C/FP	DSSW	Mar-99	May-99	VAR	VAR	YES	NO	
FY 00	TBS	C/FP	DSSW	Mar-00	May-00	VAR	VAR	YES	NO	
FY 01	TBS	C/FP	DSSW	Mar-01	May-01	VAR	VAR	YES	NO	
-Defense Message System (DMS)										
FY 98	VAR**	C/FP	DSSW	VAR*	VAR*	VAR	VAR	YES		
FY 99	TBS	C/FP	DSSW	VAR*	VAR*	VAR	VAR	YES	NO	
FY 00	TBS	C/FP	DSSW	VAR*	VAR*	VAR	VAR	YES	YES	Oct-99
FY 01	TBS	C/FP	DSSW	VAR*	VAR*	VAR	VAR	YES	YES	Oct-00
Army Model Improvement Program (AMIP):										
-Workstation hardware and software										
FY 99	TBS	C/FP	VAR*	Feb-99	Apr-99	VAR	VAR	YES	NO	
FY 00	TBS	C/FP	VAR*	Feb-00	Apr-00	VAR	VAR	YES	NO	
FY 01	TBS	C/FP	VAR*	Feb-01	Apr-01	VAR	VAR	YES	NO	

REMARKS: IBN Corporation - International Business Network, Vienna, VA
 Universal Hi Tech Development, Rockville, MD
 VAR - Unit cost and quantities vary by configuration
 VAR* - Multiple Contract awards/delivery throughout the year.
 VAR** - GTSI/Microsoft, Chantilly, VA; Comteq Federal Inc, Rockville and Greenbelt, MD; Lockheed-Martin Federal Systems, Manassas, VA;
 Compaq Computer Corp, Bethesda, MD; Comark Federal Systems, Chantilly, VA
 DSSW-Defense Supply Service-Washington
 EDS - Electronic Data Systems - Herndon, VA
 MDW- Military District of Washington DC.

Exhibit P-5a, Budget Procurement History and Planning

Date: February 1999

Appropriation / Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment
 Weapon System Type:
 P-1 Line Item Nomenclature: HQ MANAGEMENT INFORMATION SYSTEMS (BE4161)

WBS Cost Elements: Fiscal Years	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY Each	Unit Cost \$000	Specs Avail Now?	Date Revsn Avail	RFP Issue Date
Legal Automation Army-wide Systems (LAAWS): -Enhance Staff Judge Advocate Offices LANs/ Deploy JAGNET Corporate Database Servers FY 98	EDS	C/FP	MDW Acquisition Center	Feb-98	Mar-98	VAR	VAR	YES	NO	
-Deploy Remaining JAGNET Servers/ Enhance/Replace JAGNET Office LANs and workstations FY 99	EDS	C/FP	MDW Acquisition Center	Feb-99	Apr-99	VAR	VAR	YES	NO	
Housing Operations Management System (HOMES): -Computers, Printers, High Speed Batch Printers, and Communication Equipment FY 98	DELL/Telos	C/FP	GSA	Feb-98	Mar-98	VAR	VAR	YES	NO	
FY 99	TBS	C/FP	GSA	Feb-99	Mar-99	VAR	VAR	YES	NO	
FY 00	TBS	C/FP	GSA	Feb-00	Mar-00	VAR	VAR	YES	NO	
FY 01	TBS	C/FP	GSA	Feb-01	Mar-01	VAR	VAR	YES	NO	

REMARKS: EDS - Electronic Data Systems - Herndon, VA
 GSA- General Services Administration, Region 8, Denver,CO
 MDW-Military District for Washington, DC
 VAR - Unit cost and quantities vary by configuration
 VAR* - National Simulation Center (NSC), Concepts Analysis Agency (CAA), TRADOC Analysis Center (TRAC); USA Materiel Systems Analysis Activity (USAMSAA); Topographic Engineering Center (TEC) Army Research LAB (ARC), White Sands Missile Range (WSMR); Operational Test and Evaluation Command (OPTEC)
 Dell Computer Corp, Round Rock, TX
 Telos Corp., Fairfax, VA

Exhibit P-5a, Budget Procurement History and Planning

Date: February 1999

Appropriation / Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment
 Weapon System Type: _____
 P-1 Line Item Nomenclature: HQ MANAGEMENT INFORMATION SYSTEMS (BE4161)

WBS Cost Elements: Fiscal Years	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY Each	Unit Cost \$000	Specs Avail Now?	Date Revsn Avail	RFP Issue Date
STRATEGIC C2 FACILITIES										
-Briefing Display System (BDS)										
-Security, Admin and Spt Tools										
-Automated Message handling										
-Data System/Application Management										
-COM/LAN Segment; GCCS Integration										
-LAN Lifecycle Management										
-Matrix Switch										
-Command Center Applications										
-Integration Testing										
-Image Boss Upgrade										
FY 98	JPL	C/CPAF	NASA/DSSW	VAR*	VAR*	VAR	VAR	YES	NO	
FY 99	JPL	C/CPAF	NASA/DSSW	VAR*	VAR*	VAR	VAR	YES	NO	
FY 00	JPL	C/CPAF	NASA/DSSW	VAR*	VAR*	VAR	VAR	NO	NO	
FY 01	JPL	C/CPAF	NASA/DSSW	VAR*	VAR*	VAR	VAR	NO	NO	
Site-R Integration Program (SRIP)										
-Emergency Action Center and Configuration Management System										
FY98	VAR**	C/FP	VAR***	VAR*	VAR*	VAR	VAR	YES	NO	
-Radio, Paging, and High Altitude Electromagnetic Pulse Hardening										
FY98	VAR****	VAR****	VAR*****	VAR*	VAR*	VAR	VAR	YES	NO	

REMARKS: VAR - Unit cost and quantities vary by configuration
 VAR*- Multiple contract awards/deliveries throughout the year.
 VAR** - Sheridan Inc., Arlington, VA; SRA Inc., Fairfax, VA; SAIC Inc., Ft. Ritchie, MD
 VAR*** - General Service Administration and US Army Communications-Electronics Command, Ft Ritchie, MD
 VAR**** - Contracts (C/FP): Hughes, Fort Wayne, IN and Motorola Inc., Schaumburg, IL. MIPRs: US Army Information Systems Engineering Command, Ft Huachuca, AZ; Army Research Lab, Adelphi, MD; and 1111th Signal Battalion, Ft Ritchie, MD
 VAR***** - US Army Communication-Electronics Command, Ft Monmouth, NJ and Directorate of Contracting, Ft Huachuca, AZ
 DSSW - Defense Supply Service-Washington, DC
 JPL - Jet Propulsion Laboratory, Pasadena, CA
 NASA- National Aeronautical Space Administration

Exhibit P-5a, Budget Procurement History and Planning

Date: February 1999

Appropriation / Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment	Weapon System Type:	P-1 Line Item Nomenclature: HQ MANAGEMENT INFORMATION SYSTEMS (BE4161)
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WBS Cost Elements: Fiscal Years	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY Each	Unit Cost \$000	Specs Avail Now?	Date Revsn Avail	RFP Issue Date
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Site-R Integration Program (SRIP) Continued										
-Secure Local Area Network (Hardware, Software, Engineering, and Program Management)										
FY99	VAR**	VAR**	VAR***		VAR*	VAR*	VAR	VAR	YES	NO
FY00	VAR**	VAR**	VAR***		VAR*	VAR*	VAR	VAR	NO	NO
FY01	VAR**	VAR**	VAR***		VAR*	VAR*	VAR	VAR	NO	NO
-Unclassified Local Area Network (Hardware and Software)										
FY98	Force 3 Inc., Gaithersburg, MD	C/FP	GSA	Aug-98	Oct-98	VAR	VAR	VAR	YES	NO
FY01	TBS	C/FP	TBS	Feb-01	Apr-01	VAR	VAR	VAR	NO	NO

REMARKS: CECOM - US Army Communications-Electronics Command
 CECOM-ISED - CECOM Information Systems Engineering Directorate, Ft Detrick, MD
 CECOM-SMC - CECOM Software Management Center, Ft Monmouth, NJ
 VAR - Unit cost and quantities vary by configuration
 VAR* - Multiple contract awards/deliveries throughout the year.
 VAR** - Contracts (C/FP): TBS. MIPRs: CECOM-ISED and CECOM-SMC
 VAR*** - CECOM, Ft Monmouth, NJ; GSA; CECOM, Ft Detrick, MD
 GSA - General Services Administration, Region 8, Denver, CO

Exhibit P-40, Budget Item Justification Sheet

Date: February 1999

Appropriation / Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment
 P-1 Item Nomenclature: MACOM AUTOMATION SYSTEMS (BE4162)

Program Elements for Code B Items: Code: Other Related Program Elements:

	Prior Years	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	To Complete	Total Prog
Proc Qty												
Gross Cost	127.2	19.0	24.9	30.6	38.9	83.3	80.3	117.8	50.6	40.6	0.0	613.2
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	127.2	19.0	24.9	30.6	38.9	83.3	80.3	117.8	50.6	40.6	0.0	613.2
Initial Spares												
Total Proc Cost	127.2	19.0	24.9	30.6	38.9	83.3	80.3	117.8	50.6	40.6	0.0	613.2
Flyaway U/C												
Wpn Sys Proc U/C												

DESCRIPTION: This supports automation systems requirements of Major Army Commands (MACOMs) and activities not included in other centrally managed programs. These requirements conform with the Army's Information Management (IM) Architecture and are included in MACOM IM Modernization Plans. Funding has been programmed to accomplish high priority/high payoff initiatives which offer efficiencies and improvements in mission support and reduce operations and maintenance costs. Acquisitions will be accomplished primarily through standard requirements contracts.

JUSTIFICATION:

MACOM AUTOMATION SYSTEMS: FY 00/01 funds support systems modernization/life cycle replacement throughout Forces Command (FORSCOM), US Army Europe (USAREUR), Training and Doctrine Command (TRADOC), Army Materiel Command (AMC), Military District of Washington (MDW), Eighth US Army (EUSA), US Army Pacific (USARPAC), US Army Recruiting Command (USAREC), Army Signal Command (ASC), Army War College (AWC), Criminal Investigation Command (CIDC), U.S. Army Medical Command (MEDCOM), and Intelligence and Security Command (INSCOM). Acquisitions include hardware, software, networking products, and peripherals that are required for MACOM/end user level systems architecture and the transition to an open systems environment (OSE). These systems perform vital functions throughout the sustaining base, and modernization is essential to accommodate growing information processing requirements with declining manpower resources. This funding is necessary to provide life cycle replacement of obsolete information processing equipment (IPE), which will eliminate excessive maintenance costs and facilitate productivity growth through advances in information systems technology, thus streamlining manpower intensive operations. Funding will also support MACOM efforts to reengineer business processes, infrastructure to support leaner organizations, and the total compatibility and interoperability needs of a force projection Army. FY 00 MDW funding also provides infrastructure to support the Armed Forces Inaugural Committee (AFIC), which supports the coordination of parades, chaperons, balls, and security on a non-partisan basis for the 2000 Presidential election.

Exhibit P-40C Budget Item Justification Sheet

Date

February 1999

Appropriation / Budget Activity/Serial No.

OTHER PROCUREMENT / 2 / Communications and Electronics Equipment

P-1 Item Nomenclature

MACOM AUTOMATION SYSTEMS (BE4162)

Program Elements for Code B Items

Code

Other Related Program Elements

(continued)

ARMY ELECTRONIC COMMERCE (EC): Army Electronic Commerce synthesizes the benefits of business process re-engineering and the migration from aged paper-based business processes to fully electronic processes. Using streamlined and technically innovative business practices, Army EC unites all functional areas into a cohesive electronic business network. Army EC implements Executive direction for the Federal Government and Defense Services/Agencies to implement Electronic Commerce globally. Army EC complements other Defense-wide efforts such as the Defense Reform, Paperless Acquisition, Joint Computer-aided Acquisition and Logistics Support, and PKI for Defense Travel System. By conducting business electronically, the Army will be able to expedite normal business transactions, particularly during surges associated with military mobilization. Army EC helps create the digitized power projection platform necessary for the sustainment of the Army's digitized battlefield through electronic commerce with its Industrial Partners. Army EC supports pilot projects as "proof-of-concept" of EC technologies applied to re-engineered business processes. Army Electronic Commerce funds acquire hardware, software and communications for implementing Army EC based on business process re-engineering and Army priorities that comply with the Secretary of Defense Directives outlined in the Defense Reform Initiative Report. Implementation will be in coordination with Army functional proponents, OSD, and the Defense Information Systems Agency (DISA). Acquisitions will include hardware and software to accommodate translating electronic output into standard formats consistent for Electronic Data Exchange and Public Key Infrastructure, as well as acquisition of other EC technologies that support the Army's transition to a paperless environment. FY00 funds acquire hardware and software required to finish fielding the Standard Procurement System (SPS) Army-wide.

ARMY ENTERPRISE ARCHITECTURE (AEA): The AEA directly supports the need to address business process improvements, develop interoperable information resources, recommend protocols and standards for information technology and plan an interoperable C4I architecture. The AEA works directly to establish the information framework to support Joint and Army information (technology) visions, architectures and plans designed to win the battlefield information war and dominate maneuver battle. Funding will provide a full range of Army-wide services, to include technical integration of software architectures and data management, domain engineering, and internet services, including education in domain engineering, software reuse and data management. Funding also supports Army-wide common operating environment, data modeling and data standardization efforts, access to Joint Technical Architecture - Army and internet web page and list server design, development and maintenance use. FY 00/01 funds will provide the resources necessary for the on-going development of the AEA infrastructure and procurement of hardware, software, and modeling tools necessary to provide both the combat and the materiel development communities with integrated systems critical to the development of a shared data environment. These funds will target specifically the Systems and Operational Architecture production tools. The objective products include standard data elements, activity models, data architectures, data models and systems Architecture components for Force XXI Digitized Corps/Division, Army After Next Corps/Division, Joint and Echelons-above-Corps (EAC) operations and training. This infrastructure will substantially improve the Army's ability to produce and share dynamic models, based on doctrinally developed static representations of information exchange requirements. These tools are needed to continue the migration of materiel developers programs (weapons, C4I, and sustainment systems) to the DoD Common Operating Environment. The AEA infrastructure will provide significant contributions to the Army's and DoD's Data Standardization Program with an increased ability to share, reuse, and manage all data products within the Joint Community. Additionally, these funds will provide the tools necessary to synthesize live and virtual environments which will be essential for the C4I community to capitalize on the latest modeling and simulation technology. Funds also continue implementing reuse and data administration initiatives within the Army in coordination with the AEA. Use of the Army Enterprise Architecture concepts are expected to increase the quality of software development projects by increasing productivity and system reliability, by reducing software maintenance costs and by promoting greater standardization and reuse of software products

ARMY WARFIGHTING EXPERIMENT (AWE): Funds support modeling, simulation and Joint Venture analysis for the Joint Contingency Force AWE in FY00 and the Division Capstone Exercise in FY01. Funds purchase equipment that provide the capability for constructive, virtual and live simulation for examination of warfighting concepts across TRADOC's domains of Doctrine, Training, Leader development, Organization, Materiel and Soldiers (DTLOMS). FY 00/01 funds purchase equipment which will augment current materiel used for ongoing TRADOC efforts to analyze information operations, support Operational/Systems Architecture development, evaluate the impact of Army light forces during deployment, explore ways to improve force projection, and enhance the Army contribution to the joint warfight. TRADOC funding upgrades wide-area network communication devices and critical capabilities for the Joint Virtual Laboratory and Battle Lab/DOD Simulation Centers.

Exhibit P-5, Weapon OPA Cost Analysis		Appropriation/ Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment			P-1 Line Item Nomenclature: MACOM AUTOMATION SYSTEMS (BE4162)			Weapon System Type:			Date: February 1999			
OPA Cost Elements		ID	FY 98			FY 99			FY 00			FY 01		
		CD	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
			\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000
MACOM Automation Systems:														
-FORSCOM Automation	A		1906	VAR	VAR	2592	VAR	VAR	4407	VAR	VAR	4526	VAR	VAR
-USAREUR Automation	A		641	VAR	VAR	789	VAR	VAR	763	VAR	VAR	784	VAR	VAR
-TRADOC Automation	A		4223	VAR	VAR	3645	VAR	VAR	8830	VAR	VAR	6026	VAR	VAR
-AMC Automation	A		1868	VAR	VAR	2009	VAR	VAR	3860	VAR	VAR	3948	VAR	VAR
-MDW Automation	A		272	VAR	VAR	335	VAR	VAR	1182	VAR	VAR	355	VAR	VAR
-EUSA Automation	A		279	VAR	VAR	395	VAR	VAR	367	VAR	VAR	804	VAR	VAR
-USARPAC Automation	A		322	VAR	VAR	394	VAR	VAR	525	VAR	VAR	411	VAR	VAR
-USAREC Automation	A		547	VAR	VAR	664	VAR	VAR	2393	VAR	VAR	2057	VAR	VAR
-Army Signal Command Automation	A		770	VAR	VAR	831	VAR	VAR	884	VAR	VAR	922	VAR	VAR
-INSCOM Automation	A		100	VAR	VAR	182	VAR	VAR	205	VAR	VAR	244	VAR	VAR
-CIDC Automation	A											292	VAR	VAR
-MEDCOM Automation	A											392	VAR	VAR
-AWC Automation	A		115	VAR	VAR	108	VAR	VAR	106	VAR	VAR	104	VAR	VAR
SUBTOTAL	A		11043			11944			23522			20865		
Army Electronic Commerce	A		247	41*	VAR	10928	209*	VAR	6860	110*	VAR			
Army Enterprise Architecture (AEA)	A		1681	VAR	VAR	1812	VAR	VAR	2627	VAR	VAR	2594	VAR	VAR
Joint Warfighter Interoperability Demonstration	A		1700	VAR	VAR									
Logistic Integration Database (LIDB)	A		3207	VAR	VAR									
Army Warfighting Experiment (AWE)	A		7032	VAR	VAR	5949	VAR	VAR	5885	VAR	VAR	59863	VAR	VAR
TOTAL			24910			30633			38894			83322		

Exhibit P-5a, Budget Procurement History and Planning

Date:
February 1999

Appropriation / Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment				Weapon System Type:			P-1 Line Item Nomenclature: MACOM AUTOMATION SYSTEMS (BE4162)				
WBS Cost Elements: Fiscal Years	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY Each	Unit Cost \$000	Specs Avail Now?	Date Revsn Avail	RFP Issue Date	
FORSCOM Automation -FORSCOM Cmd Data Base -Office/Department Local Area Network -FORSCOM Automation Modernization Effort FY 98 FY 99 FY 00 FY 01											
	VAR***	C/FP	VAR**	VAR*	VAR*	VAR	VAR	YES	NO		
	TBS	C/FP	TBS	Mar-99	Jun-99	VAR	VAR	YES	NO		
	TBS	C/FP	TBS	Jan-00	Mar-00	VAR	VAR	YES	NO		
	TBS	C/FP	TBS	Jan-01	Mar-01	VAR	VAR	YES	NO		
USAREUR Automation -ISM Server -ATM Network -Streamlined Process for Accounting FY 98											
	VAR****	C/FP	CECOM and Regional Contracting Office, Wiesbaden, Germany	Dec-97	Jul-98	VAR	VAR	YES	NO		
-Facility LANs FY 99											
	TBS	C/FP	Regional Contracting Ofc Wiesbaden, Germany	Feb-99	Apr-99	VAR	VAR	YES	NO		
	TBS	C/FP	Regional Contracting Ofc Wiesbaden, Germany	Dec-99	Apr-00	VAR	VAR	NO	NO		
	TBS	C/FP	Regional Contracting Ofc Wiesbaden, Germany	Dec-00	Apr-01	VAR	VAR	NO	NO		

REMARKS: CECOM - Communications and Electronics Command, Ft. Monmouth, NJ.
 VAR*- Multiple contracts awarded/delivered throughout the year
 VAR - Unit costs and quantities vary by configuration
 VAR**- Ft Irwin Contracting Ctr; CECOM Acquisition Center; Ft Hood Contracting Ofc; NAWC-AD, St Inigoes, MD; Atlanta Area Contracting Ctr; GSA, Kansas City, MO
 VAR***- Hewlett Packard, Rockville, MD; GTE Gov't Sys Corp. Taunton, MA; Lucent Tech, Charlotte, NC; TRACTOR Applied Sciences Inc., Austin, TX;
 LogicWorks, Vienna, VA; Anteon Corp., Fairfax, VA; Software Systems Inc., SFO, CA; Compaq Computer Corp, Houston, TX; GTSI Inc., Chantilly, VA;
 Concord Commo, Orange, CA; Micron Electronics Inc., Nampa, ID; Comark Fed Sys, Chantilly, VA; Westwood Computer Corp, Springfield, NJ
 VAR****-Small Computer Issue Activity (SCIA). Mannheim, Germany; MA Impianti, Vicenza, Italy

Exhibit P-5a, Budget Procurement History and Planning

Date: February 1999

Appropriation / Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment
 Weapon System Type: MACOM AUTOMATION SYSTEMS (BE4162)
 P-1 Line Item Nomenclature:

WBS Cost Elements: Fiscal Years	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY Each	Unit Cost \$000	Specs Avail Now?	Date Revsn Avail	RFP Issue Date
TRADOC Automation										
-IM Infrastructure										
FY 98	Lucent Technologies	C/FP	GSA, Ft Worth, TX	Mar-98	Jun-98	VAR	VAR	YES	NO	
FY 99	TBS	C/FP	GSA, Ft Worth, TX	Feb-99	Apr-99	VAR	VAR	YES	NO	
FY 00	TBS	C/FP	GSA, Ft Worth, TX	Jan-00	Mar-00	VAR	VAR	YES	NO	
FY 01	TBS	C/FP	GSA, Ft Worth, TX	Jan-01	Mar-01	VAR	VAR	YES	NO	
-Classroom XXI										
FY 98	Federal Data, Washington, DC	C/FP	GSA, Kansas City, MO	Aug-98	Nov-98	VAR	VAR	YES	NO	
-Distance Learning										
FY 98	Commercial Satellite Sys, Inc. Chantilly, VA	C/FP	Ft Eustis, VA	Sep-98	Oct-98	VAR	VAR	YES	NO	
-Models and Simulations										
FY 98	GEIT Solutions, Seattle, WA	C/FP	GSA Denver, CO	Apr-98	Jul-98	VAR	VAR	YES	NO	
-Upton Hall (Hardware/Software)										
FY00	TBS	C/FP	DOC Carlisle Barracks, PA	Jul-00	Nov-00	VAR	VAR	YES	NO	
AMC Automation										
-Replace Non-Year 2000 Compliant Hardware										
-Minicomputers, LANs, Servers										
FY 98	PRC/Mason & Hanger Corp.	C/FP	CECOM	VAR*	VAR*	VAR	VAR	YES	NO	
FY 99	TBS	C/FP	CECOM	VAR*	VAR*	VAR	VAR	YES	NO	
FY 00	TBS	C/FP	CECOM	VAR*	VAR*	VAR	VAR	YES	NO	
FY 01	TBS	C/FP	CECOM	VAR*	VAR*	VAR	VAR	YES	NO	

REMARKS: CECOM - Communications and Electronics Command
 VAR - Unit costs and quantities vary by configuration
 PRC-Planning Research Corporation, Reston, VA
 Mason & Hanger Corp - Mason & Hanger Corporation, Lexington, KY
 Lucent Technologies, Greensboro, NC
 GSA - General Services Administration
 VAR*- Multiple contracts awarded/delivered throughout the year

Exhibit P-5a, Budget Procurement History and Planning

Date: February 1999

Appropriation / Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment
 Weapon System Type: _____
 P-1 Line Item Nomenclature: MACOM AUTOMATION SYSTEMS (BE4162)

WBS Cost Elements: Fiscal Years	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY Each	Unit Cost \$000	Specs Avail Now?	Date Revsn Avail	RFP Issue Date
MDW Automation										
-Host Communication System										
FY 98	OAO Technology	C/FP	GSA		VAR*	VAR*	VAR	YES	NO	
FY 99	TBS	C/FP	TBS		VAR*	VAR*	VAR	YES	NO	
FY 00	TBS	C/FP	TBS		VAR*	VAR*	VAR	YES	NO	
FY 01	TBS	C/FP	TBS		VAR*	VAR*	VAR	YES	NO	
-AFIC										
FY00	TBS	C/FP	TBS		VAR*	VAR*	VAR	YES	NO	
EUSA Automation										
- Combined Forces Command LAN										
FY 98	VAR**	C/FP	USACCK		VAR*	VAR*	VAR	YES	NO	
FY 99	TBS	C/FP	USACCK		VAR*	VAR*	VAR	YES	NO	
FY 00	TBS	C/FP	USACCK		VAR*	VAR*	VAR	YES	NO	
FY 01	TBS	C/FP	USACCK		VAR*	VAR*	VAR	YES	NO	
USARPAC Automation										
-Departmental Local Area Network										
FY 98	VAR***	C/FP	VAR****		VAR*	VAR*	VAR	YES	NO	
FY 99	TBS	C/FP	VAR****		VAR*	VAR*	VAR	YES	NO	
FY 00	TBS	C/FP	TBS		VAR*	VAR*	VAR	YES	NO	
FY 01	TBS	C/FP	TBS		VAR*	VAR*	VAR	YES	NO	

REMARKS: OAO Technology Solutions Inc., Greenbelt, MD
 GSA - General Services Administration
 VAR - Unit costs and quantities vary by configuration
 VAR**- EDS, Herndon, VA; GTSI, Chantilly, VA; Sysorex, Fairfax, VA; BTG, McLean, VA;
 VAR****- GSA San Francisco, CA; Defense Logistics Agency, Ft Belvoir, VA; Yokoto Air Base Contracting Ofc;
 USACCK - US Army Contracting Command - Korea
 AFIC - Armed Forces Inaugural Committee
 VAR*- Multiple contracts awarded/delivered throughout the year
 VAR***- Pacific Communications, Lake Oswego, OR; Kells Gov Micro Inc., Seattle, WA; SMF Systems Corp., San Ramon, CA; Synchrotec Software Corp., Diego, CA

Exhibit P-5a, Budget Procurement History and Planning

Date: February 1999

Appropriation / Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment
 Weapon System Type: MACOM AUTOMATION SYSTEMS (BE4162)
 P-1 Line Item Nomenclature:

WBS Cost Elements: Fiscal Years	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY Each	Unit Cost \$000	Specs Avail Now?	Date Revsn Avail	RFP Issue Date
USAREC Automation										
-Recruiting Computer Systems										
FY 98	VAR**	C/FP	Ft Eustis Contracting Ofc	VAR*	VAR*	VAR	VAR			
FY 99	TBS	C/FP	Ft Eustis Contracting Ofc	VAR*	VAR*	VAR	VAR	YES	NO	
FY 00	TBS	C/FP	TBS	VAR*	VAR*	VAR	VAR	YES	NO	
FY 01	TBS	C/FP	TBS	VAR*	VAR*	VAR	VAR	YES	NO	
Army Signal Command Automation										
-Hardware/Software/Life Cycle Replacement										
FY 98	VAR***	C/FP	VAR****	VAR*	VAR*	VAR	VAR	YES	NO	
FY 99	TBS	C/FP	VAR****	VAR*	VAR*	VAR	VAR	YES	NO	
FY 00	TBS	C/FP	VAR****	VAR*	VAR*	VAR	VAR	YES	NO	
FY 01	TBS	C/FP	VAR****	VAR*	VAR*	VAR	VAR	YES	NO	
AWC Automation										
-War College LAN Upgrade										
FY 98	Lucent Technologies	C/FP	CECOM	Dec-97	Feb-98	VAR	VAR	YES	NO	
FY 99	Lucent Technologies	C/FP	CECOM	Jan-99	Feb-99	VAR	VAR	YES	NO	
FY 00	TBS	C/FP	CECOM	Nov-99	Feb-00	VAR	VAR	YES	NO	
FY 01	TBS	C/FP	CECOM	Nov-00	Feb-01	VAR	VAR	YES	NO	
INSCOM Automation										
-513th LAN/WAN Systems										
FY 98	GTE - Chantilly, VA	C/FP	DCMAO Van Nuys, CA	Jan-98	Feb-98	VAR	VAR	YES	NO	
FY 99	GTE - Chantilly, VA	C/FP	DCMAO Van Nuys, CA	Jan-99	Feb-99	VAR	VAR	YES	NO	
FY 00	TBS	C/FP	DCMAO Van Nuys, CA	Jan-00	Feb-00	VAR	VAR	YES	NO	
FY 01	TBS	C/FP	DCMAO Van Nuys, CA	Jan-01	Feb-01	VAR	VAR	YES	NO	

REMARKS: Lucent Technologies, Greensboro, NC
 VAR - Unit costs and quantities vary by configuration
 VAR**-BTG, Fairfax, VA; FDC, Greenbelt, MD
 VAR***- I NET, Inc., Bethesda, MD; WANG Gov Services, Bethesda, MD; Presidio Corp., Lanham, MD
 VAR****- CECOM and Mannheim Regional Contracting Office, Mannheim, Germany
 DCMAO - Defense Contract Administration Office
 CECOM - Communications and Electronics Command
 VAR*- Multiple contracts awarded/delivered throughout the year

Exhibit P-5a, Budget Procurement History and Planning

Date: February 1999

Appropriation / Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment
 Weapon System Type: _____
 P-1 Line Item Nomenclature: MACOM AUTOMATION SYSTEMS (BE4162)

WBS Cost Elements: Fiscal Years	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY Each	Unit Cost \$000	Specs Avail Now?	Date Revsn Avail	RFP Issue Date
USACIDC Automation -HP 9000 k570 with enhancements and peripherals FY 01	TBS	C/OPT	Ft Belvoir, VA DOC	Dec-00	Apr-01	VAR	VAR	YES	NO	
MEDCOM Automation -Medical facility Network File Servers FY 01	TBS	C/FP	Ft Sam Houston DOC	Mar-01	May-01	VAR	VAR	YES	NO	
Army Electronic Commerce -ADPE/Software/Communication Devices FY 98	VAR**	C/FP	CAC-W	Apr-98	May-98	41	VAR	YES	NO	
FY 99	TBS	C/FP	CAC-W	Feb-99	Mar-99	209	VAR	YES	NO	
FY 00	TBS	C/FP	CAC-W	Nov-99	Dec-99	110	VAR	YES	NO	
Army Enterprise Architecture (AEA) -Hardware/Software/Modeling Tools FY 98	VAR***	C/FP	DOC Ft Belvoir,VA/CECOM	VAR*	VAR*	VAR	VAR	YES	NO	
FY 99	TBS	C/FP	DOC Ft Belvoir,VA/CECOM	VAR*	VAR*	VAR	VAR	YES	NO	
FY 00	TBS	C/FP	DOC Ft Belvoir,VA/CECOM	VAR*	VAR*	VAR	VAR	YES	NO	
FY 01	TBS	C/FP	DOC Ft Belvoir,VA/CECOM	VAR*	VAR*	VAR	VAR	YES	NO	

REMARKS: VAR - Unit costs and quantities vary by configuration
 VAR** - American Management System (AMS), Fairfax, VA;
 Computer Sciences Corporation (CSC), Marlton, NJ; and GTSI, Chantilly, VA
 VAR*** - SUN Microsystems, Fairfax, VA; Harris Corp., Northern VA; Mitre, Reston, VA
 CAC-W - CECOM Acquisition Center - Washington Operations Office

VAR* - Multiple contracts awarded/delivered throughout the year
 CECOM - Communications and Electronics Command
 Option - Priced

Exhibit P-5a, Budget Procurement History and Planning

Date: February 1999

Appropriation / Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment		Weapon System Type:			P-1 Line Item Nomenclature: MACOM AUTOMATION SYSTEMS (BE4162)						
WBS Cost Elements: Fiscal Years	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY Each	Unit Cost \$000	Specs Avail Now?	Date Revsn Avail	RFP Issue Date	
Joint Warfighting Interoperability Demonstration FY 98	SAIC, McLean, VA Titan, Reston, VA	C/FP	Space and Naval Warfare System Command San Diego, CA	VAR*	VAR*	VAR	VAR	YES			
Army Warfighting Experiment (AWE) -Comm Hardware, Software & Peripherals FY 98	VAR**	C/FP	VAR***	VAR*	VAR*	VAR	VAR	YES	NO		
FY 99	TBS	C/FP	STRICOM, Orlando, FL	May-99	Aug-99	VAR	VAR	YES	NO		
FY 00	TBS	C/FP	TBS	Jan-00	May-00	VAR	VAR	NO	NO		
FY 01	TBS	C/FP	TBS	Jan-01	May-01	VAR	VAR	NO	NO		
Log Integration Data Base - ADPE Hardware FY 98	VAR****	C/FP	Logistics Support Agency	VAR*	VAR*	VAR	VAR	YES	NO		

REMARKS: CECOM - Communications and Electronics Command
 VAR* - Multiple contracts awarded/delivered throughout the year
 VAR** - Booz, Allen & Hamilton, McLean, VA; TRW Inc., Carson, CA; Lockheed-Martin Fed Sup Inc., Manassas, VA; Shenkon Inc., Chantilly, VA;
 Digital Equipment Corp., Greenbelt, MD; Government Tech Services Inc., Chantilly, VA; GTE Govt Services Corp, Taunton, MA; United Defense LP, Santa Clara, CA;
 VAR*** - CECOM and Ft Belvoir, DOC, VA; GSA, Denver Co; CECOM; Ft Leavenworth Mission Contracting Activity; Naval Airwarfare Ctr, Orlando, FL;
 STRICOM, Orlando, FL
 VAR**** - SUN Microsystems, McLean, VA; TELOS Systems Inc., Ashburn, VA
 VAR - Unit costs and Quantities vary by configuration
 STRICOM - US Army Simulation, Training and Instrumentation Command

Exhibit P-40, Budget Item Justification Sheet

Date:

February 1999

Appropriation / Budget Activity/Serial No:

OTHER PROCUREMENT / 2 / Communications and Electronics Equipment

P-1 Item Nomenclature:

PERSONNEL AUTOMATION SYSTEMS (BE4164)

Program Elements for Code B Items:

Code:

Other Related Program Elements:

	Prior Years	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	To Complete	Total Prog
Proc Qty												
Gross Cost	155.2	36.9	35.5	19.7	25.5	29.8	27.4	32.2	27.2	23.5	0.0	412.9
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	155.2	36.9	35.5	19.7	25.5	29.8	27.4	32.2	27.2	23.5	0.0	412.9
Initial Spares												
Total Proc Cost	155.2	36.9	35.5	19.7	25.5	29.8	27.4	32.2	27.2	23.5	0.0	412.9
Flyaway U/C												
Wpn Sys Proc U/C												

DESCRIPTION: This budget line provides for the purchase of automated data processing equipment (ADPE) for management information systems in the personnel community. The systems are part of the approved Personnel System architecture and the Army Modernization Plan.

JUSTIFICATION:

PERSONNEL ENTERPRISE SYSTEM-AUTOMATION (PES-A): PES-A is an ADP acquisition and redesign/implementation program which ensures that adequate, modern, state-of-the-art automation infrastructure (automation training, computer platforms, services, telecommunications and productivity/automation tools) is available to support the warfighter. The PES-A supports all five personnel functions, including recruiting, and is key to execution of day-to-day operations within the Army (e.g., strength accounting, personnel movement, assignment actions, career management, training, recruiting, reenlistment and mobilization). It is the vehicle by which personnel are managed and information is provided to DoD, and ultimately, to Congress. The PES-A provides interoperability between key data processing installations of the Army's Personnel Community; the Total Army Personnel Command (PERSCOM) Army Reserve Personnel Command (AR-PERSCOM), Army Recruiting Command (USAREC), National Guard Personnel Center (NGPERCEN), and the Military Entrance Command (MEPCOM), a Joint command for which the Army is the executive agent. It has been the Cornerstone of the Army's personnel automation capability required to support emerging systems through the late 1990's and beyond. It fits into the Army Enterprise Strategy, supporting the modernization of Power Projection Platforms. FY 00/01 funding will buy automation infrastructure, communications capability, and system modeling to support the personnel community consolidation initiative and distributed capabilities. Continued implementation of PES-A will be a major step toward providing information as a force multiplier and integration of the Army's personnel community, with emphasis on system interoperability and the Total Army Personnel Data Base, permitting integration of Active, Reserve, Civilian, and Army National Guard systems.

Exhibit P-40C Budget Item Justification Sheet

Date

February 1999

Appropriation / Budget Activity/Serial No.

OTHER PROCUREMENT / 2 / Communications and Electronics Equipment

P-1 Item Nomenclature

PERSONNEL AUTOMATION SYSTEMS (BE4164)

Program Elements for Code B Items

Code

Other Related Program Elements

(continued)

USMEPCOM JOINT COMPUTER CENTER (JCC): A memorandum of understanding between DoD and Selective Service System (SSS) formalized the establishment of the JCC where automatic data processing resources can be shared by USMEPCOM and SSS. The JCC mission includes the management and enhancement of shared resources, in full support of USMEPCOM and SSS peacetime and mobilization mission requirements. FY 00/01 funds will procure new technology cartridge tape drive systems, high speed printers, direct access storage devices (DASD), and the IBM OS/390 Operating System software which supports USMEPCOM and SSS peacetime processing requirements. The funds will also procure a front-end communications processor and a relational data base management software system. All acquired new technology DASD replace obsolete DASD equipment and also provide additional space for the users processing requirements.

US MILITARY ACADEMY (USMA) INFORMATION MANAGEMENT ARCHITECTURE (IMA) MODERNIZATION: The USMA is an accredited institution of higher learning. To maintain its accreditation standards and to instruct/prepare future Army leaders to operate in the sophisticated high-tech world of modern warfare in accordance with Joint and Army Visions, it must employ in its classrooms/laboratories the latest technology/instructional tools. FY 00/01 funds will buy hardware and software to support technology infrastructure systems essential to every aspect of education, training, and command and control of the USMA and West Point. These include the data and telecommunications backbone networks, the Enterprise automation systems, digital document imaging systems, computer labs, upgraded classroom information technology, and shared automation facilities and resources that are critical to the mission of the USMA.

US MILITARY ENTRANCE PROCESSING COMMAND (USMEPCOM) INTEGRATED RESOURCE SYSTEM (MIRS): The purpose of MIRS is to provide the automation and communications capability for USMEPCOM to meet its peacetime, mobilization and wartime military manpower accession mission for the Armed Services. The MIRS will interface with recruiting capabilities for all services, incorporating the concept of electronic data sharing using standard DoD data elements between USMEPCOM and all the Armed Services recruiting commands, greatly reducing redundant data entry. MIRS continues to improve Military Entrance Processing Stations (MEPS) operations by automating functions previously done manually. This project also includes Computerized Adaptive Testing-Armed Services Vocational Aptitude Battery (CAT-ASVAB), the automated version of the Armed Services Vocational Aptitude Battery (ASVAB) test given to determine applicants mental abilities. FY00 funding will continue to purchase memory to allow interface with additional DoD and service MEPS and in turn improve operations in those MEPS. FY01 funds begin replacement of MIRS infrastructure at all 65 MEPS throughout the United States.

DEFENSE CIVILIAN PERSONNEL DATA SYSTEM MODERNIZATION (DCPDS MOD): Army DCPDS MOD effort will support the standardization of business processes in the Civilian Personnel functional area and regionalization of Civilian Personnel Offices. DCPDS MOD procurement expenditures provide automation infrastructure to support fielding of this DoD-wide system to Army activities receiving the DCPDS MOD capability. Automation infrastructure fielded to Army activities will consist of Open System Environment (OSE) compliant data and process servers, user workstations, system peripherals, communications infrastructure, and Commercial Off the Shelf (COTS) software, (operating system, DBMS, office automation, etc.) fielded to ten Army Regional Service Centers (RSCs) and more than 100 subordinate installation level Customer Support Units (CSUs). Army automation infrastructure will be compatible with the DoD DCPDS MOD application software and integrate with the OSE architecture at Army sustaining base sites. Procurement strategy makes maximum use of existing contracts. This effort is projected to improve DoD-wide productivity over 30% in the civilian personnel management functional area in order to accommodate reductions already applied to outyear Army Budget. The initial DCPDS-MOD infrastructure acquisition concludes in FY99. FY00 funds support life cycle infrastructure replacement of the first two (of ten) Army RSCs and subordinate installation level CSUs. FY01 funds support life cycle replacement of the next two Army RSCs and subordinate installation level CSUs. Infrastructure will be replaced based on a five year life cycle.

Exhibit P-40C Budget Item Justification Sheet

Date

February 1999

Appropriation / Budget Activity/Serial No.

OTHER PROCUREMENT / 2 / Communications and Electronics Equipment

P-1 Item Nomenclature

PERSONNEL AUTOMATION SYSTEMS (BE4164)

Program Elements for Code B Items

Code

Other Related Program Elements

(continued)

ARMY RECRUITING INFORMATION SUPPORT SYSTEM (ARISS): The ARISS program, formerly the Joint Recruiting Information Support System, has been rescoped to an Army specific development effort as a result of the DoD decision to discontinue the joint program. Efforts will continue to deploy capabilities completed through the joint program along with implementation of Army specific recruiting automation enhancements. Army specific enhancements include laptop-based Enlistment Packet Projection and Recruiting Leads capabilities. ARISS includes a recruiting Headquarters Support System to modernize recruiting headquarters business processes, improving management of recruiters and potential recruits. ARISS will also provide enhanced automation capabilities to support Army Guidance Counselors at Military Entrance Processing Stations (MEPS) through establishment of a Guidance Counselor Standard Database. To date the Army-only effort has deployed 7600 laptops with an initial multimedia Sales Presentation capability and will deploy 6700 additional laptops. The laptop-based Enlistment Packet Projection capability is being deployed in FY99. Deployment of remaining ARISS capabilities will take place in FY00/01. ARISS capabilities will interface with or be integrated into the Defense Integrated Military Human Resources System (DIMHRS) when DIMHRS is implemented. The system will support business process improvements in the recruiting functional area and will be fielded to all levels of the Army recruiting structure. ARISS will aid the Army to meet new accession goals in an era of dwindling resources and a shrinking pool of potential applicants for military service. The ARISS data structure is based upon DoD standard data elements and the system is compliant with the Joint Technical Architecture (JTA) and the Defense Information Infrastructure Common Operating Environment (DIICOE). ARISS will provide Army recruiters with powerful laptop computers to assist them in marketing the Army to potential recruits. The system also automates administrative tasks, freeing recruiters to concentrate on direct recruiting efforts. Completed ARISS capabilities (Sales Presentation and Packet Projection modules) have been certified Y2K compliant. Future applications will also be tested and certified for Y2K compliance before deployment. FY00/01 OPA funds will procure laptop computers, servers, data warehouse hardware and other system-wide support automation infrastructure to support fielding of all ARISS applications software.

Exhibit P-5, Weapon OPA Cost Analysis		Appropriation/ Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment			P-1 Line Item Nomenclature: PERSONNEL AUTOMATION SYSTEMS (BE4164)			Weapon System Type:			Date: February 1999			
OPA Cost Elements		ID	FY 98			FY 99			FY 00			FY 01		
		CD	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
			\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000
Personnel Enterprise System-Automation (PES-A)		A	4602	VAR	VAR	5754	VAR	VAR	7585	VAR	VAR	8440	VAR	VAR
USMEPCOM Joint Computer Center (JCC)		A	357	VAR	VAR	693	VAR	VAR	659	VAR	VAR	683	VAR	VAR
USMA Information Management Architecture (IMA) Modernization		A	2230	VAR	VAR	2413	VAR	VAR	2350	VAR	VAR	2335	VAR	VAR
USMEPCOM Integrated Resource System (MIRS)		A	437	VAR	VAR	536	VAR	VAR	474	VAR	VAR	6505	VAR	VAR
Defense Civilian Personnel Data System Modernization (DCPDS MOD)		A	9553	VAR	VAR	402	VAR	VAR	5587	VAR	VAR	5581	VAR	VAR
Army Recruiting Information Support System (ARISS)		A	18286	VAR	VAR	9903	VAR	VAR	8867	VAR	VAR	6277	VAR	VAR
VAR - Units and quantities vary by configuration and site.														
TOTAL			35465			19701			25522			29821		

Exhibit P-5a, Budget Procurement History and Planning

Date: February 1999

Appropriation / Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment				Weapon System Type:		P-1 Line Item Nomenclature: PERSONNEL AUTOMATION SYSTEMS (BE4164)					
WBS Cost Elements: Fiscal Years	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY Each	Unit Cost \$000	Specs Avail Now?	Date Revsn Avail	RFP Issue Date	
Personnel Enterprise System-Automation (PES-A) HW/SW Upgrades											
FY 98	VAR**	C/FP	GSA/DSSW	Dec-97	Feb-98	VAR	VAR	YES	NO		
FY 99	TBS	C/FP	GSA/DSSW	Jan-99	Mar-99	VAR	VAR	YES	NO		
FY 00	TBS	C/FP	GSA/DSSW	Jan-00	Mar-00	VAR	VAR	YES	NO		
FY 01	TBS	C/FP	GSA/DSSW	Jan-01	Mar-01	VAR	VAR	YES	NO		
USMEPCOM Joint Computer Center (JCC) Mainframe Software/DASD/Mainframe Upgrade/ Printers/Tape Drives											
FY 98	EXIDE CORP, Raleigh, NC	C/FP	GSA	Feb-98	Mar-98	VAR	VAR	YES	NO		
FY 99	IBM, Oakbrook, IL	C/FP	GSA	Jan-99	Feb-99	VAR	VAR	YES	NO		
FY 00	TBS	C/FP	GSA	Feb-00	Mar-00	VAR	VAR	YES	NO		
FY 01	TBS	C/FP	GSA	Jan-01	Feb-01	VAR	VAR	YES	NO		
USMA Information Management Architecture (IMA) Modernization Computer Lab HW/SW Upgrade/Library System/ Servers											
FY 98	VAR***	C/FP	USMA	VAR*	VAR*	VAR	VAR	YES	NO		
FY 99	TBS	C/FP	USMA	VAR*	VAR*	VAR	VAR	YES	NO		
FY 00	TBS	C/FP	USMA	VAR*	VAR*	VAR	VAR	YES	NO		
FY 01	TBS	C/FP	USMA	VAR*	VAR*	VAR	VAR	YES	NO		

REMARKS: GSA - General Services Administration
 VAR - Unit cost and quantities vary by configuration and site.
 VAR* - Multiple contract awards/deliveries throughout the year.
 VAR** - ORACLE, CA; IBM, NY; SUN Microsystems, CA; and Hewlett Packard, CA.
 VAR*** - DELL Marketing Corp, Round Rock, TX; Applied Computer Tech, Inc., Ft Collins, CO; Audio Video Corp., Albany, NY; Multimax Inc., Largo, MD; Technology Management and Analysis, Mclean, VA; Lucent Technologies, Silver Spring, MD
 USMA-US Military Academy, Westpoint, NY
 DSSW - Defense Supply Services-Washington, Arlington, VA.
 IBM - International Business Machines, Oakbrook, IL.

Exhibit P-5a, Budget Procurement History and Planning

Date:
February 1999

Appropriation / Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment
 Weapon System Type:
 P-1 Line Item Nomenclature: PERSONNEL AUTOMATION SYSTEMS (BE4164)

WBS Cost Elements: Fiscal Years	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY Each	Unit Cost \$000	Specs Avail Now?	Date Revsn Avail	RFP Issue Date
USMEPCOM Integrated Resource System (MIRS) CAT-ASVAB Hardware/Software Upgrade										
FY 98	Lockeed-Martin, Oswego, NY	C/FP	CAC-W	Jan-98	Mar-98	VAR	VAR	YES	NO	
FY 99	Lockeed-Martin, Oswego, NY	C/FP	CAC-W	Jan-99	Mar-99	VAR	VAR	YES	NO	
FY 00	TBS	C/FP	CAC-W	Jan-00	Mar-00	VAR	VAR	YES	NO	
FY 01	TBS	C/FP	CAC-W	Jan-01	Mar-01	VAR	VAR	YES	NO	
Defense Civilian Personnel Data System Modernization (DCPDS MOD) Hardware/Software Upgrade										
FY 98	VAR**	C/FP	CAC-W	VAR*	VAR*	VAR	VAR	YES	NO	
FY 99	VAR**	C/FP	CAC-W	VAR*	VAR*	VAR	VAR	YES	NO	
FY 00	TBS	C/FP	CAC-W	VAR*	VAR*	VAR	VAR	YES	NO	
FY 01	TBS	C/FP	CAC-W	VAR*	VAR*	VAR	VAR	YES	NO	
Army Recruiting Information Support System (ARISS) -Hardware/Software Upgrades -Data/Process/Application Data Servers -Laptop and Desktop PCs -COTS Software										
FY 98	VAR***	C/FP	GSA/CECOM	Jun-98	Aug-98	VAR	VAR	YES	NO	
FY 99	VAR***	C/FP	GSA/CECOM	Mar-99	May-99	VAR	VAR	YES	NO	
FY 00	TBS	C/FP	GSA/CECOM	Nov-99	Dec-99	VAR	VAR	YES	NO	
FY 01	TBS	C/FP	GSA/CECOM	Jan-01	Mar-01	VAR	VAR	YES	NO	

REMARKS: VAR - Unit cost and quantities vary by configuration and site. CECOM - Communications and Electronics Command, Ft Monmouth, NJ
 GSA - General Services Administration DSSW - Defense Supply Services-Washington, Arlington, VA
 CAC-W - Communications and Electronics (CECOM) Acquisition Center-Washington
 VAR* - Multiple contracts awarded/delivered throughout the year.
 VAR** - PRC - Planning Research Corp - Reston, VA; EDS - Electronic Data Systems - Herndon, VA; Lockheed-Martin - Oswego, NY
 VAR*** TELOS, Ashburn, VA; DELL, Austin, TX; GMR, Manassas, VA; VANSTAR, Fairfax, Va

Exhibit P-40, Budget Item Justification Sheet

Date: February 1999

Appropriation / Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment
 P-1 Item Nomenclature: LOGISTICS AUTOMATION SYSTEMS (BE4166)

Program Elements for Code B Items: Code: Other Related Program Elements:

	Prior Years	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	To Complete	Total Prog
Proc Qty												
Gross Cost	64.9	9.5	5.8	3.0	8.2	7.5	5.4	3.6	2.0	2.1	0.0	112.1
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	64.9	9.5	5.8	3.0	8.2	7.5	5.4	3.6	2.0	2.1	0.0	112.1
Initial Spares												
Total Proc Cost	64.9	9.5	5.8	3.0	8.2	7.5	5.4	3.6	2.0	2.1	0.0	112.1
Flyaway U/C												
Wpn Sys Proc U/C												

DESCRIPTION: This budget line funds automation initiatives that support transportation, cargo movement, and resupply under the Army's Strategic Mobility Program (ASMP), begun in part as a result of lessons learned from Operation Desert Shield/Storm and the Congressionally mandated Mobility Requirements Study (MRS). The Army is changing its warfighting strategy from a forward deployed force to a CONUS-based force capable of rapid deployment worldwide. At the center of this strategy of rapid force movement are a number of transportation automated systems that facilitate/expedite force movement and resupply. The line also funds automation initiatives that support hazardous substance and food management programs.

JUSTIFICATION:

WORLDWIDE PORT SYSTEM (WPS): WPS is a Military Traffic Management Command (MTMC) automated information system (AIS) initiative essential to effective force projection and in-transit visibility of unit and sustainment cargos. At the center of the new Army strategy for rapid power projection to meet unspecified threats, WPS is one of several systems that provide movement control support to the Army's Strategic Mobility Program, initiated as a result of lessons learned from Operation Desert Shield/Storm and the Congressionally mandated MRS. When fully fielded, WPS will support MTMC ocean terminals, US Navy port activities worldwide, FORSCOM Reserve Component Transportation Terminal Units, and Active Component Automated Cargo Documentation Detachments with worldwide warfighting support missions. Compact and transportable, WPS substantially increases the ability of the Defense Transportation System to provide in-transit visibility information to the warfighting CINCs and USTRANSCOM, while reducing the personnel required to operate the system and the transportation required to deploy the system to remote places. WPS will replace four aging AISs that support ocean terminal management and cargo documentation missions during peace and war. The replaced AISs include the obsolete Terminal Management System in CONUS, and the Army Standard Port System - Enhanced, whose significant deficiencies were identified during Operation Desert Shield/Storm. FY 00/01 funds buy hardware and software to continue fielding WPS to selected sites.

Exhibit P-40C Budget Item Justification Sheet

Date

February 1999

Appropriation / Budget Activity/Serial No.

OTHER PROCUREMENT / 2 / Communications and Electronics Equipment

P-1 Item Nomenclature

LOGISTICS AUTOMATION SYSTEMS (BE4166)

Program Elements for Code B Items

Code

Other Related Program Elements

(continued)

AUTOMATED AIRLOAD PLANNING SYSTEM (AALPS): AALPS is a knowledge based "expert system" that assists users with aircraft planning. AALPS uses an artificial intelligence methodology to load plan for aircraft in near real time. The system takes data input of equipment and personnel, establishes gross load planning information, and quickly produces fully executable (certified) load plans for either a single mission, brigade sized deployment or multiple division sized airlift. AALPS is an approved migration system, and though it is a joint system, the Army is designated as the proponent, responsible for developing, implementing and fielding it to the services. FY00/01 funds will be used to purchase hardware and software for Army users, supplying them with a deployable automated platform for developing load plans and manifests, which will be used in air deployments and in determining airlift requirements during contingency planning operations. Fielding sites are Ft Bragg, Ft Campbell, Ft Stewart, Ft Benning, Ft Drum, Ft Hood, Ft Lewis, USAREUR, Schofield Barracks, Ft Eustis, Ft Bliss, Ft Riley, Ft Sill, Ft Carson, Ft Richardson, Ft Polk, Ft Irwin, Ft Huachuca, Ft Lee, Ft McCoy, Ft McPherson, and Ft Dix.

INTEGRATED COMPUTERIZED DEPLOYMENT SYSTEM (ICODES): ICODES is being developed as a single standard common user stow planning system to meet DoD worldwide requirements. ICODES is a Military Traffic Management Command (MTMC) initiative, applying the principles of Artificial Intelligence to the function of planning loads and stowage of cargo and equipment aboard ocean vessels. ICODES will dramatically reduce the time (from 12 hours to under 30 minutes) and improve the accuracy of the ship stow planning process, enabling the user to concentrate on complex problems associated with port management and vessel loading. ICODES will support rapid deployment missions, planning cargo deployments from multiple seaports of embarkation and debarkation, as well as multiple ships. ICODES will also detail a three dimensional representation of the ship compartments, resolving the height limitations of the current system. Benefits from this system include: replacement of the current autonomous and redundant systems; improved responsiveness to changes and contingencies; ability to direct transfer stow plan files; streamlined and standardized terminal cargo training support; more effective allocation of marine cargo resources; comprehensive report capability; more precise cargo stow plans; and increased productivity. FY 00/01 funds procure the hardware and software necessary to continue fielding to authorized users.

AUTOMATIC IDENTIFICATION TECHNOLOGY (AIT): AIT is a suite of technologies that enables the automatic capture of source data rapidly and accurately and transfer the data to Automated Information Systems (AISs) with little or no human intervention, thereby enhancing the ability to identify, track, document, and control deploying and redeploying forces, equipment, personnel and sustainment cargo. AIT will streamline the Military Traffic Management Command and Army logistics business process and enhance its warfighting capability. The AIT devices purchased, configured, and installed, will be integrated with other components of the DoD AIT infrastructure to improve interoperability. FY00/01 funds procure hand held readers and interrogators, business process servers for receiving, storing and forwarding AIT transactions and radio frequency identification tags.

ARMY FOOD MANAGEMENT INFORMATION SYSTEM (AFMIS): This program modernizes the current Army Food Management Information System (AFMIS). It includes improved business processes in food service operations, a point of sale capability, an automated headcount capability to support smart card technology, and an added decision support module to allow high level managers at installation, MACOM and HQDA to make better management decisions. Hardware will also be improved from the current AT&T 3B2 mini-computers and dumb terminal configuration to a Y2K compliant Windows NT client-server platform. FY 00/01 funds buy hardware and software for Army Installations worldwide. The new platform will comply with the Army Technical Architecture (ATA) and Common Operating Environment (COE) standards. There are approximately 48 installations and a total of approximately 325 Dining Facilities throughout CONUS and OCONUS. The modernized system will be utilizing Commercial Off The Shelf (COTS) software to manage inventory, purchasing & receiving, and recipe & menu planning. It will also provide labor and asset tracking and automate account status. The new hardware and software will be certified as Y2K compliant.

Exhibit P-40C Budget Item Justification Sheet

Date
February 1999

Appropriation / Budget Activity/Serial No. OTHER PROCUREMENT / 2 / Communications and Electronics Equipment	P-1 Item Nomenclature LOGISTICS AUTOMATION SYSTEMS (BE4166)
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Program Elements for Code B Items	Code	Other Related Program Elements
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(continued)

HAZARDOUS SUBSTANCE MANAGEMENT SYSTEM (HSMS): HSMS is a DoD software package designed to aid in the implementation of improved business practices for the management of hazardous material and hazardous waste at the installation level. The implementation of the improved management system results in an increase in operational readiness and cost savings in hazardous waste disposal. The readiness of the warfighting units is enhanced in several areas. First, the centralized management of hazardous materials decreases the soldier's requirements for many environmental related duties such as ordering, inventory control, issue and disposal and allows more time for maintenance of equipment and weapons and training. Second, these improved management practices reduce the inventory and thus the cost of hazardous materials to the TOE unit allowing more funds for training and other missions. Third, centralized management also allows for the rapid preparation of deployment loads and packages. The new system also monitors the shelf life of required hazardous materials needed for training and/or deployment thus reducing the time for the preparation of these deployment loads and the possibility of having to use expired items during training or deployment. And finally, the centralized management practices allow for the use of hazardous materials only by authorized personnel who are trained and equipped for these operations. Health and safety risks to the unit are reduced as well as the environmental liability of the commander. All of these benefits enhance the capability of units to train and deploy to meet the mission needs of the Total Army. The Army has fielded the improved management system and software to 50 installations to date and plans to field to approximately 160 installations by the end of FY 03. To date the improved system has resulted in improved operational unit readiness and cost savings or cost avoidances in the following areas: hazardous material purchased, and hazardous waste disposal cost. FY 00/01 funds buy automation hardware (computers, printers, bar code scanners and servers) for the fielding of the HSMS software system to Army installations worldwide.

Exhibit P-5, Weapon OPA Cost Analysis		Appropriation/ Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment			P-1 Line Item Nomenclature: LOGISTICS AUTOMATION SYSTEMS (BE4166)			Weapon System Type:			Date: February 1999			
OPA Cost Elements		FY 98			FY 99			FY 00			FY 01			
ID CD		TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	
		\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000	
Worldwide Port System (WPS)		A	1002	23	44	949	23	41	1278	30	43	1972	47	42
Automated Air Loading Planning System (AALPS)		A				1400	250	6	510	85	6	373	62	6
Integrated Computerized Deployment System (ICODES)		A	124	1	124	200	4	50	200	4	50	200	4	50
Intransit Visibility/Automatic Identification Technology (ITV/AIT)		A	755	VAR	VAR	421	VAR	VAR	1212	VAR	VAR	1313	VAR	VAR
LIA Logistics Automation System		A	3953	VAR	VAR									
Army Food Management Information Systems (AFMIS) Modernization		A							3367	VAR	VAR	2414	VAR	VAR
Hazardous Substance Management System (HSMS)		A							1647	28	59	1253	21	60
TOTAL			5834			2970			8214			7525		

Exhibit P-5a, Budget Procurement History and Planning

Date: February 1999

Appropriation / Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment		Weapon System Type:			P-1 Line Item Nomenclature: LOGISTICS AUTOMATION SYSTEMS (BE4166)					
WBS Cost Elements: Fiscal Years	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY Each	Unit Cost \$000	Specs Avail Now?	Date Revsn Avail	RFP Issue Date
Worldwide Port System (WPS)										
FY 98	CFS	C/FP	MTMC	Mar-98	Jul-98	23	44	YES	NO	
FY 99	TBS	C/FP	MTMC	Mar-99	Jul-99	23	41	YES	NO	
FY 00	TBS	C/FP	MTMC	Mar-00	Jul-00	30	43	YES	NO	
FY 01	TBS	C/FP	MTMC	Mar-01	Jul-01	47	42	YES	NO	
Automated Air Loading Planning System (AALPS)										
FY 99	SYTEL, Inc, Bethesda, MD	C/FP	MTMC	Jan-99	Mar-99	250	6	YES	NO	
FY 00	TBS	C/FP	MTMC	Jan-00	Mar-00	85	6	YES	NO	
FY 01	TBS	C/FP	MTMC	Jan-01	Mar-01	62	6	YES	NO	
Integrated Computerized Deployment System (ICODES)										
FY 98	CFS	C/FP	MTMC	Mar-98	May-98	1	124	YES	NO	
FY 99	TBS	C/FP	MTMC	Mar-99	May-99	4	50	YES	NO	
FY 00	TBS	C/FP	MTMC	Mar-00	May-00	4	50	YES	NO	
FY 01	TBS	C/FP	MTMC	Mar-01	May-01	4	50	YES	NO	
Intransit Visibility/Automatic Identification Technology (ITV/AIT)										
FY 98	SAVI TECH, Mountain View, CA	C/FP	MTMC	Feb-98	May-98	VAR	VAR	YES	NO	
FY 99	TBS	C/FP	MTMC	Feb-99	May-99	VAR	VAR	YES	NO	
FY 00	TBS	C/FP	MTMC	Nov-99	Mar-00	VAR	VAR	YES	NO	
FY 01	TBS	C/FP	MTMC	Nov-00	Mar-01	VAR	VAR	YES	NO	

REMARKS: VAR - Unit cost and quantities vary by configuration.
MTMC - Military Traffic Management Command

CFS - Computer Federal Systems, Richmond, VA

Exhibit P-5a, Budget Procurement History and Planning

Date: February 1999

Appropriation / Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment
 Weapon System Type:
 P-1 Line Item Nomenclature: LOGISTICS AUTOMATION SYSTEMS (BE4166)

WBS Cost Elements: Fiscal Years	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY Each	Unit Cost \$000	Specs Avail Now?	Date Revsn Avail	RFP Issue Date
Army Food Management Information Systems (AFMIS) Modernization-Hardware/Software FY 00 FY 01	TBS TBS	C/FP C/FP	SDC-L SDC-L	Mar-00 Mar-01	May-00 May-01	VAR VAR	VAR VAR	YES YES	NO NO	
Hazardous Substance Management System (HSMS) FY 00 FY 01	TBS TBS	C/FP C/FP	CAC-W CAC-W	Jan-00 Jan-01	Mar-00 Mar-01	28 21	59 60	YES YES	NO NO	
LIA Logistics Automation Systems FY 98	Quality Research, Huntsville, AL TMA, McLean, VA	C/FP C/FP	CORP OF ENGRS PEO STAMIS	Mar-98 May-98	May-98 Jun-98	VAR VAR	VAR VAR	YES YES	NO NO	

REMARKS: SDC-L - Software Development Center-Ft Lee, VA
 VAR - Unit cost and quantities vary by configuration.
 PEO STAMIS - Program Executive Office - Standard Army Management Information Systems
 CAC-W - Communications and Electronics Command (CECOM) Acquisition Center-Washington DC
 TMA-Technology Management Analysis Corp

Exhibit P-40, Budget Item Justification Sheet

Date: February 1999

Appropriation / Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment
 P-1 Item Nomenclature: SUSTAINING BASE INFO SVC (SBIS) (BE4200)

Program Elements for Code B Items: Code: Other Related Program Elements:

	Prior Years	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	To Complete	Total Prog
Proc Qty												
Gross Cost	121.8	20.4	6.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	149.1
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	121.8	20.4	6.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	149.1
Initial Spares												
Total Proc Cost	121.8	20.4	6.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	149.1
Flyaway U/C												
Wpn Sys Proc U/C												

DESCRIPTION: The Sustaining Base Information Services (SBIS) program consists of up to 13 custom developed applications to be fielded to various Army installations. SBIS applications are designed to operate in an Open Systems Environment (OSE) compliant automated infrastructure maximizing the number of support suppliers while minimizing the total life cycle cost. Funding provided for complete infrastructure solutions to support the applications developed under SBIS, and procured SBIS servers which are integrated with existing automation assets at each fielded site. SBIS provides required automation support to improve and standardize critical sustaining base business processes. Fielded software has become an integral part of readiness, mobilization and installation management. Developed applications enhance key elements of those support missions and enable consistent, timely data collection and dissemination, allowing better management of key areas of the Army Safety Program, security clearance status monitoring, the schoolhouse system, and range facility management. The FY 98 OPA concludes the SBIS acquisition effort.

Exhibit P-5, Weapon OPA Cost Analysis		Appropriation/ Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment			P-1 Line Item Nomenclature: SUSTAINING BASE INFO SVC (SBIS) (BE4200)			Weapon System Type:			Date: February 1999			
OPA Cost Elements		ID	FY 98			FY 99			FY 00			FY 01		
		CD	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
			\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000
Infrastructure to include: IBM R/S 6000 ProcServer (SBIS & ITP/ISM) IBM R/S 6000 Data Servers IBM R/S 6000 Application Data Servers Communications infrastructure VAR - Unit costs vary by configuration. Quantities vary to meet specific needs at a variety of functional work centers.		A	6923	VAR	VAR									
TOTAL			6923											

Exhibit P-5a, Budget Procurement History and Planning

Date:
February 1999

Appropriation / Budget Activity/Serial No:
OTHER PROCUREMENT / 2 / Communications and Electronics
Equipment

Weapon System Type:

P-1 Line Item Nomenclature:
SUSTAINING BASE INFO SVC (SBIS) (BE4200)

WBS Cost Elements: Fiscal Years	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY Each	Unit Cost \$000	Specs Avail Now?	Date Revsn Avail	RFP Issue Date
Infrastructure to include: IBM R/S 6000 ProcServer (SBIS & ITP/ISM) IBM R/S 6000 Data servers IBM R/S 6000 Application Data Servers Communications Infrastructure FY 98	Lockheed-Martin Federal	C/FP	CAC-W	Feb-98	Apr-98	VAR	VAR*	YES	NO	

REMARKS: Lockheed-Martin Federal Systems - Oswego, NY
 CAC-W-CECOM Acquisition Center - Washington
 VAR - Quantities vary to meet specific needs at a variety of functional work centers.
 VAR* - Unit costs vary by configuration.

Exhibit P-40, Budget Item Justification Sheet

Date:

February 1999

Appropriation / Budget Activity/Serial No:

OTHER PROCUREMENT / 2 / Communications and Electronics Equipment

P-1 Item Nomenclature:

JOINT COMPUTR AIDED ACQ & LOG SPT (WA1000)

Program Elements for Code B Items:

Code:

Other Related Program Elements:

	Prior Years	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	To Complete	Total Prog
Proc Qty												
Gross Cost	0.0	21.9	34.5	27.0	32.3	39.8	40.5	41.3	42.1	43.3	0.0	322.7
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	0.0	21.9	34.5	27.0	32.3	39.8	40.5	41.3	42.1	43.3	0.0	322.7
Initial Spares												
Total Proc Cost	0.0	21.9	34.5	27.0	32.3	39.8	40.5	41.3	42.1	43.3	0.0	322.7
Flyaway U/C												
Wpn Sys Proc U/C												

DESCRIPTION: The Joint Computer-Aided Acquisition and Logistics Support (JCALS) system provides an infrastructure capable of integrating digitized technical data that supports the weapons systems acquisition and logistics life cycle. The system is data driven and provides an automated information systems architecture, independent of application. JCALS will initially meet the Services' goal of automating technical manual processes and functions. The JCALS architecture provides a distributed, open systems environment that makes extensive use of both industry and Government standards. The architecture is designed for flexibility and growth, and is capable of accommodating additional system requirements, technological improvements and new functionality. The initial application to be fielded is Joint Technical Manuals.

At the JCALS sites, hardware and software configurations are dependent on each site's organization and functions, processing needs and role in the overall system. The system provides local and wide area communications processing, distributes, manages, updates and replicates data throughout the system and delivers the applications and functions to the users' workstations. The system architecture includes a central site for user support, system monitoring, life cycle software support, maintenance and troubleshooting.

JUSTIFICATION: FY 00 funds support deployment of the JCALS capability to high priority Technical Manual users at approximately 25 Joint Service sites. FY01 funds support deployment to approximately 42 Joint Service sites. The DoD approved site list is extensive, including service depots, installations and schools.

Exhibit P-5, Weapon OPA Cost Analysis		Appropriation/ Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment			P-1 Line Item Nomenclature: JOINT COMPUTR AIDED ACQ & LOG SPT (WA1000)			Weapon System Type:			Date: February 1999			
OPA Cost Elements		ID	FY 98			FY 99			FY 00			FY 01		
		CD	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
			\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000
Joint Computer-Aided Acquisition and Log Support (JCALS) System														
Hardware Investment	A		21032	35*	VAR	17910	26*	VAR	20579	25*	VAR	27081	42*	VAR
Software Investment	A		8482	35*	VAR	6224	26*	VAR	8504	25*	VAR	8375	42*	VAR
Site Activation	A		4964	35*	VAR	2829	26*	VAR	3264	25*	VAR	4294	42*	VAR
* Quantities reflect approximate number of sites. VAR - Unit costs of each site vary based on number of users to receive JCALS and volume of transactions conducted at each site.														
TOTAL			34478			26963			32347			39750		

Exhibit P-5a, Budget Procurement History and Planning

Date: February 1999

Appropriation / Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics
 Equipment

Weapon System Type:

P-1 Line Item Nomenclature: JOINT COMPUTR AIDED ACQ & LOG SPT (WA1000)

WBS Cost Elements: Fiscal Years	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY Each	Unit Cost \$000	Specs Avail Now?	Date Revsn Avail	RFP Issue Date
Joint Computer-Aided Acquisition and Log Support (JCALS) Systems										
Hardware Investment										
FY 98	CSC	C/FP	CAC - W	Feb-98	May-98	35	VAR	YES	NO	
FY 99	CSC	C/FP	CAC - W	Jan-99	Apr-99	26	VAR	YES	NO	
FY 00	CSC	Option	CAC - W	Feb-00	May-00	25	VAR	YES	NO	
FY 01	CSC	Option	CAC - W	Feb-01	May-01	42	VAR	YES	NO	
Software Investment										
FY 98	CSC	C/FP	CAC - W	Feb-98	May-98	35	VAR	YES	NO	
FY 99	CSC	C/FP	CAC - W	Jan-99	Apr-99	26	VAR	YES	NO	
FY 00	CSC	Option	CAC - W	Feb-00	May-00	25	VAR	YES	NO	
FY 01	CSC	Option	CAC - W	Feb-01	May-01	42	VAR	YES	NO	
Site Activation										
FY 98	CSC	C/FP	CAC - W	Feb-98	May-98	35	VAR	YES	NO	
FY 99	CSC	C/FP	CAC - W	Jan-99	Apr-99	26	VAR	YES	NO	
FY 00	CSC	Option	CAC - W	Feb-00	May-00	25	VAR	YES	NO	
FY 01	CSC	Option	CAC - W	Feb-01	May-01	42	VAR	YES	NO	

REMARKS: Quantities reflect approximate number of sites FY99-01.
 VAR - Unit costs vary by configuration
 CSC - Computer Systems Corp, Marlton, NJ
 CAC-W - CECOM Acquisition Center - Washington
 Option - Competitive contract with fixed priced options.

Exhibit P-40, Budget Item Justification Sheet

Date: February 1999

Appropriation / Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment
 P-1 Item Nomenclature: RESERVE COMPONENT AUTOMATION SYS (RCAS) (BE4167)

Program Elements for Code B Items: Code: Other Related Program Elements:

	Prior Years	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	To Complete	Total Prog
Proc Qty												
Gross Cost	81.8	72.2	112.8	107.9	83.0	92.2	89.7	18.9	0.0	0.0	0.0	658.4
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	81.8	72.2	112.8	107.9	83.0	92.2	89.7	18.9	0.0	0.0	0.0	658.4
Initial Spares												
Total Proc Cost	81.8	72.2	112.8	107.9	83.0	92.2	89.7	18.9	0.0	0.0	0.0	658.4
Flyaway U/C												
Wpn Sys Proc U/C												

DESCRIPTION: The Reserve Component Automation System (RCAS) is an automated information system that will provide the Army the capability to more effectively administer, manage and mobilize Army National Guard and Army Reserve forces. The RCAS will link over 10,500 Guard and Reserve units at over 4,000 locations. The RCAS will support daily operational, training and administrative tasks at all Guard and Reserve echelons, and will provide timely and accurate information to plan and support mobilization. The RCAS is an Acquisition Category 1AM program managed by the Chief, National Guard Bureau. The RCAS Project was restructured in FY95 to constrain cost growth, establish a realistic requirements baseline, and leverage new information management technology. The redesigned system consists of commercial-off-the shelf (COTS) hardware and office automation software, government off-the-shelf (GOTS) software, and new software applications integrated into an open system, PC-based architecture.

JUSTIFICATION: As part of the restructured project, the RCAS Mission Needs Statement (MNS) was re-validated, 5 March 1996. Program goals and functional requirements are described in the updated RCAS Operational Concept Description (OCD), April 1996. The RCAS program approach was approved by the RCAS General Officer Steering Committee (GOSC), the OSD MAISRC, and Congress, September 1996. On 23 September 1996 a joint DOD/DA Overarching Integrated Process Team (OIPT) chaired by OSD (C31 Acquisition) unanimously approved the fielding of the first increment of the RCAS hardware and software. Increment One provides the Reserve Component with personal computers, network servers, office automation, and a nation-wide infrastructure that supports electronic mail and file transfer. On 24 November 1997 an Integrating Integrated Process Team (IIPT) approved full fielding of Increment Two of the RCAS. This increment adds database servers to the infrastructure and logistics functionality associated with GOTS software to include Unit Level Logistics System (ULLS)-Ground, ULLS-S4 (Supply), and Standard Property Book System-Redesign (SPBS-R). Increment Three, currently under development, will introduce force authorization, training, human resources and Phase II of software encryption requirements. Future requirements, defined in a "rolling wave" evolutionary process, will satisfy user-validated requirements in the order of priority established by the Army National Guard and Army Reserve Forces.

Exhibit P-5, Weapon OPA Cost Analysis		Appropriation/ Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment			P-1 Line Item Nomenclature: RESERVE COMPONENT AUTOMATION SYS (RCAS) (BE4167)			Weapon System Type:			Date: February 1999			
OPA Cost Elements		ID	FY 98			FY 99			FY 00			FY 01		
		CD	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
			\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000
PRODUCTION														
ADP Equipment		A	41134	1	41134	38993	1	38993	18469	1	18469	19363	1	19363
ADP Software			21982	1	21982	21403	1	21403	26140	1	26140	26044	1	26044
SUBTOTAL			63116			60396			44609			45407		
FIELDING			17027	1	17027	16796	1	16796	15172	1	15172	16080	1	16080
SUSTAINMENT			4159	1	4159	3776	1	3776	1119	1	1119	2928	1	2928
PROGRAM MANAGEMENT/OPERATIONS			11095	1	11095	11532	1	11532	9388	1	9388	11032	1	11032
SYSTEM ENGINEERING			12928	1	12928	10457	1	10457	9356	1	9356	11728	1	11728
AWARD FEE			4459	1	4459	4937	1	4937	3396	1	3396	4979	1	4979
TOTAL			112784			107894			83040			92154		

Exhibit P-5a, Budget Procurement History and Planning

Date: February 1999

Appropriation / Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment
 Weapon System Type: _____
 P-1 Line Item Nomenclature: RESERVE COMPONENT AUTOMATION SYS (RCAS) (BE4167)

WBS Cost Elements: Fiscal Years	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY Each	Unit Cost \$000	Specs Avail Now?	Date Revsn Avail	RFP Issue Date
RCAS System										
FY98	Boeing Info Sys, Vienna, VA	Option	CECOM (former ISSAA)	Oct-97	Oct-97	1	63116	Yes	No	
FY99	Boeing Info Sys, Vienna, VA	Option	CECOM (former ISSAA)	Oct-98	Oct-98	1	60396	Yes	No	
FY00	Boeing Info Sys, Vienna, VA	Option	CECOM (former ISSAA)	Oct-99	Oct-99	1	44609	Yes	No	
FY01	Boeing Info Sys, Vienna, VA	Option	CECOM (former ISSAA)	Oct-00	Oct-00	1	45407	Yes	No	

REMARKS: The RCAS is a "turn key" system, and as such, is considered one system. The quantity therefore is one.

Unit costs only reflect hardware and software acquisition costs. Other essential contract costs associated with the development and fielding of the system are not included in the unit costs.

Contract award dates are for annual renewals of the base contract awarded in 1991.

Exhibit P-40, Budget Item Justification Sheet

Date: February 1999

Appropriation / Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment
 P-1 Item Nomenclature: AFRTS (BZ8480)

Program Elements for Code B Items: Code: Other Related Program Elements:

	Prior Years	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	To Complete	Total Prog
Proc Qty												
Gross Cost	71.6	2.4	0.4	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.0	77.9
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	71.6	2.4	0.4	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.0	77.9
Initial Spares												
Total Proc Cost	71.6	2.4	0.4	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.0	77.9
Flyaway U/C												
Wpn Sys Proc U/C												

DESCRIPTION: The Armed Forces Radio and Television Service (AFRTS) provides American language broadcast services to DoD personnel and family members stationed overseas. AFRTS is the only mass communications support to overseas warfighting Commanders-in-Chief (CINCs) for dissemination of emergency, safety and command information during peacetime, wartime and Operations Other Than War (OOTW). AFRTS facilities operate 24-hours per day to broadcast radio and television programming to nearly 500,000 soldiers, sailors, airmen, marines, DoD civilians and family members in accordance with DoD Directive 5122.10. Overseas wartime operational CINCs consider AFRTS a "combat multiplier" and essential "quality of life" issue for maintaining and enhancing the morale, readiness, and well-being of overseas troops, DoD personnel and their families. AFRTS service has become increasingly important for dissemination of timely information as the Army shifts resources in support of contingency, peacekeeping and wartime operations. Congress mandates that AFRTS provide the same type of radio and television service to personnel deployed overseas that is available to American citizens in the United States.

JUSTIFICATION: FY 00/01 funds purchase Commercial Off The Shelf (COTS) audio broadcast systems and electronic news production systems to sustain AFRTS broadcast operations. Failure to fund these systems will reduce AFRTS capability to sustain mission support for full spectrum contingency operations such as Croatia, Hungary, Macedonia and Bosnia, and deny warfighting CINCs the critical AFRTS resources to execute wartime and contingency/emergency information needs in a timely manner. In addition to health, safety and quality of life issues, "Observations and Lessons Learned, Operation Desert Storm," validated Army AFRTS as a force multiplier and Battlefield Support Agency. Army AFRTS, through its primary mission of command information, serves as an information conduit for the battlefield commander. The mass communications broadcast mission of AFRTS is not duplicated by the strategic communication mission of the Army or other services and is the only means of direct communication from the President of the United States to US deployed forces. Overseas force reductions, force realignment, post-Conventional Forces Europe (CFE), troop strength reductions in Korea and overseas base closures have been considered and do not impact the equipment required to sustain the basic broadcast capability to remaining forces.

Exhibit P-5, Weapon OPA Cost Analysis		Appropriation/ Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment			P-1 Line Item Nomenclature: AFRTS (BZ8480)			Weapon System Type:			Date: February 1999		
OPA Cost Elements	ID CD	FY 98			FY 99			FY 00			FY 01		
		TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000
American Forces Network Europe Replacement Equipment	A	206	2	103	266	1	266	220	1	220	350	3	117
American Forces Network Korea Replacement Equipment	A	236	2	118	220	1	220	270	1	270	139	1	139
TOTAL		442			486			490			489		

Exhibit P-5a, Budget Procurement History and Planning

Date: February 1999

Appropriation / Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment
 Weapon System Type:
 P-1 Line Item Nomenclature: AFRTS (BZ8480)

WBS Cost Elements: Fiscal Years	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY Each	Unit Cost \$000	Specs Avail Now?	Date Revsn Avail	RFP Issue Date
American Forces Network Europe Replacement Equipment										
FY 98	AVID Technology	C/FP	T-ASA	May-98	Jul-98	2	103	YES	NO	
FY 99	TBS	C/FP	T-ASA	Apr-99	Aug-99	1	266	YES	NO	
FY 00	TBS	C/FP	T-ASA	Mar-00	Aug-00	1	220	YES	NO	
FY 01	TBS	C/FP	T-ASA	Mar-01	Aug-01	3	117	YES	NO	
American Forces Network Korea Replacement Equipment										
FY 98	AVID Technology	C/FP	T-ASA	May-98	Jul-98	2	118	YES	NO	
FY 99	TBS	C/FP	T-ASA	Apr-99	Aug-99	1	220	YES	NO	
FY 00	TBS	C/FP	T-ASA	Mar-00	Aug-00	1	270	YES	NO	
FY 01	TBS	C/FP	T-ASA	Mar-01	Aug-01	1	139	YES	NO	

REMARKS: T-ASA - Television-Audio Support Activity, McClellan, AFB, CA
 AVID Technology, Tewksburg, MA

Exhibit P-40, Budget Item Justification Sheet

Date:

February 1999

Appropriation / Budget Activity/Serial No:

OTHER PROCUREMENT / 2 / Communications and Electronics Equipment

P-1 Item Nomenclature:

ITEMS LESS THAN \$5.0M (A/V) (BK5289)

Program Elements for Code B Items:

Code:

Other Related Program Elements:

	Prior Years	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	To Complete	Total Prog
Proc Qty												
Gross Cost	122.6	2.1	2.5	4.6	2.7	3.2	5.3	5.5	5.8	6.1	0.0	160.5
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	122.6	2.1	2.5	4.6	2.7	3.2	5.3	5.5	5.8	6.1	0.0	160.5
Initial Spares												
Total Proc Cost	122.6	2.1	2.5	4.6	2.7	3.2	5.3	5.5	5.8	6.1	0.0	160.5
Flyaway U/C												
Wpn Sys Proc U/C												

DESCRIPTION: This budget line supports Visual Information (VI) processes for all MACOMs and Headquarters, Department of the Army (HQDA) Field Operating Agencies (FOAs). Department of Defense (DoD)/Army authorized VI activities provide audio-visually-based products and services to support Army-wide training and readiness, force development, mobilization, health, safety, and documentation of diagnostics for medical, historical, and professional information. VI support includes imagery for installation power projection platforms, video productions (especially for Military Occupational Specialty (MOS) training and readiness, safety and intelligence), electronic imaging, and photography (including DA official photos). VI equipment provides commanders with video, photography, electronic imaging, audio, and other computer generated media which can be integrated to convey real time, two-way information throughout the chain of command.

All equipment has been approved for purchase through the requirements process and included in the Visual Information Systems Program (VISP). The VISP Program is the only means for commanders to procure, replace or augment their VI investment systems and equipment. The equipment in the VISP has been reviewed and prioritized, both by MACOMs, and HQDA, Director, Information Systems for Command, Control, Communications and Computers (DISC4). These funds are in support of the Army Plan SEC VII, Para J3b(4), "Obtain a family of information systems to meet the needs of all disciplines ... developed in the context of approved information models and architecture." Funds will purchase equipment to support the transition to electronic imaging (away from hazardous chemical processes) and replace equipment past its life cycle for commanders at each post, camp and station, plus HQDA, Office of the Joint Chiefs of Staff, Office of the Secretary of Defense, and other government agencies in the National Capital Region, as well as the U.S. Military Academy, National Defense University CAPSTONE course, Training and Doctrine Command (TRADOC) schools, and the National Guard and Army Reserves training.

JUSTIFICATION: FY 00/01 funds provide VI equipment for Army elements to directly support the warfighter. The equipment to be purchased is listed in the associated FY VISP acquisition sequence. Funds will acquire replacement VI investment equipment/systems to produce training materials and other VI products to support the warfighter. Existing equipment is obsolete, requiring excessive maintenance dollars and long inefficient "throughput" times.

Exhibit P-5, Weapon OPA Cost Analysis		Appropriation/ Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment			P-1 Line Item Nomenclature: ITEMS LESS THAN \$5.0M (A/V) (BK5289)			Weapon System Type:			Date: February 1999			
OPA Cost Elements		ID	FY 98			FY 99			FY 00			FY 01		
		CD	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
			\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000
Procurement actions consisting of one or more items of Visual Information Equipment. Individual items are listed in the Visual Information Systems Program (VISP) for year indicated. The Army maintains a priority listing.		A	2527	VAR	VAR	4584	VAR	VAR	2689	VAR	VAR	3240	VAR	VAR
TOTAL			2527			4584			2689			3240		

Exhibit P-5a, Budget Procurement History and Planning

Date: February 1999

Appropriation / Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment
 Weapon System Type:
 P-1 Line Item Nomenclature: ITEMS LESS THAN \$5.0M (A/V) (BK5289)

WBS Cost Elements: Fiscal Years	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY Each	Unit Cost \$000	Specs Avail Now?	Date Revsn Avail	RFP Issue Date
Procurement actions consisting of one or more items of Visual Information Equipment. Individual items are listed in the Visual Information Systems Program (VISP) for year indicated. The Army maintains a priority listing.										
FY 98	VAR**	C/FP	T-ASA	VAR*	VAR*	VAR	VAR	YES	NO	
FY 99	TBS	C/FP	T-ASA	VAR*	VAR*	VAR	VAR	YES	NO	
FY 00	TBS	C/FP	T-ASA	VAR*	VAR*	VAR	VAR	YES	NO	
FY 01	TBS	C/FP	T-ASA	VAR*	VAR*	VAR	VAR	YES	NO	

REMARKS: VAR - Quantity and unit costs vary by configuration.
 VAR* - Items are procured from multiple contracts throughout the year.
 VAR** - VI items procured from contracts with a variety of manufactures for various sites.
 T-ASA - Television-Audio Support Activity, McClellan, AFB, CA

Exhibit P-40, Budget Item Justification Sheet

Date:

February 1999

Appropriation / Budget Activity/Serial No:

OTHER PROCUREMENT / 2 / Communications and Electronics Equipment

P-1 Item Nomenclature:

PRODUCTION BASE SUPPORT (C-E) (BF5400)

Program Elements for Code B Items:

Code:

Other Related Program Elements:

	Prior Years	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	To Complete	Total Prog
Proc Qty												
Gross Cost	175.1	0.7	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.5	0.0	179.0
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	175.1	0.7	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.5	0.0	179.0
Initial Spares												
Total Proc Cost	175.1	0.7	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.5	0.0	179.0
Flyaway U/C												
Wpn Sys Proc U/C												

DESCRIPTION: This program provides funding to establish, modernize, expand or replace Army-owned industrial facilities used in production and production testing of communication and electronic materiel and above routine maintenance of government-owned equipment used in the manufacture of common modules. By consolidating industrial operations it provided a working environment with improved health and safety factors.

JUSTIFICATION: FY00 and FY01 funding is required for replacement of the FPS-16 radar pedestal. Upgrading is required because it collects Time Space Position Information (TSPI) data below the precision required by customers. Electronic Proving Ground (EPG) is currently unable to support large communications systems tests because there are not enough communications emitters in the EPG inventory. Also, in FY00 funding will be used to maintain the Industrial Base for the equipment used at a limited number of producers capable of producing the common modules, which are critical items needed in Thermal Night Sights.