

DEPARTMENT OF THE ARMY

Procurement Programs



Committee Staff Procurement Backup Book
FY 2003 Budget Submission

PROCUREMENT OF AMMUNITION, ARMY

APPROPRIATION

February 2002

PROCUREMENT OF AMMUNITION, ARMY

APPROPRIATION LANGUAGE

For construction, procurement, production, and modification of ammunition, and accessories therefor; specialized equipment and training devices; expansion of public and private plants, including ammunition facilities authorized by Section 2854, Title 10, United States Code, and the land necessary therefor, for the foregoing purposes, and such lands and interests therein, may be acquired, and construction prosecuted thereon prior to approval of title; and procurement and installation of equipment, appliances, and machine tools in public and private plants; reserve plant and Government and contractor-owned equipment layaway; and other expenses necessary for for the foregoing purposes; \$1,159,426,000 in fiscal year FY2003 to remain available for obligation until September 30, 2005.

**COMPARISON OF FY 2002 PROGRAM REQUIREMENTS
AS REFLECTED IN THE FY 2002 BUDGET
WITH THE FY 2002 PROGRAM REQUIREMENTS AS
SHOWN IN THE FY 2003 AMENDED BUDGET
SUMMARY OF REQUIREMENTS (In Millions of Dollars)**

Appropriation	FY 2002 Requirements Per FY 2002 Budget	FY 2002 Requirements Per FY 2003 Amended Budget	Increase or (Decrease)
Procurement of Ammunition, Army			
Activity 1 - Ammunition	1,033	1,022	(11)
Activity 2 - Ammunition Production Support	160	170	10
Reimbursable Program	<u>460</u>	<u>460</u>	<u>0</u>
	1,653	1,652	(1)

EXPLANATION BY ACTIVITY

Activity 1 - Ammunition - The net decrease (\$-4.4M) resulted from Congressional adjustments to Ctg, .50 Cal, All Types (\$+2.0M); Ctg, 22mm, All Types (\$+24.0M); Ctg, 81mm, Infrared (R) Illum (+\$11.0M); Ctg, Mortar 120mm HE M934 W/MO Fuze (\$+4.0M); Proj Arty, 155mm, M795 (\$+2.5M); Mine AT M87 (Volcano) (\$+7.0M); Bunker Defeating Ammunition (\$+3.5M); Demolition Munitions, All Types (+4.5M); Grenades, All Types (\$+2.0M); Items Less Than \$5 Million (\$+2.0M). These increases were offset by decreases of (\$-66.9M) for the Ctg, 40mm, All Types (\$-20.0M); Remote Area Denial Arty Mun (\$-25.0M); Modular Arty Charge System (\$-15.0M) Signals, All Types (\$-6.9M).

Reductions were made for Improved Business Initiatives (\$-7.2).

Activity 2- Ammunition Production Support- The net increase (\$11.5M) resulted from Congressional adjustment for Maintenance of InActive Facilities (\$+1.5) and Arms Initiative (\$+10.0).

Reductions were made for Improved Business Initiatives (\$-1.2).

**COMPARISON OF FY 2002 PROGRAM REQUIREMENTS
AS REFLECTED IN THE FY 2003 BUDGET
WITH THE FY2003 PROGRAM REQUIREMENTS AS
SHOWN IN THE FY 2003 AMENDED BUDGET
SUMMARY OF REQUIREMENTS (In Millions of Dollars)**

Appropriation Procurement of Ammunition, Army	FY 2002 Requirements Per FY 2003 Amended Budget	FY 2003 Requirements Per FY 2003 Amended Budget	Increase or (Decrease)
Activity 1 - Ammunition	1,022	1,046	24
Activity 2 - Ammunition Production Support	170	113	(57)
Reimbursable Program	460	<u>524</u>	<u>64</u>
	1,652	1,683	31

EXPLANATION BY ACTIVITY

Activity 1 = Increases in Activity 1 reflect a slight increase in requirements for small arms.

Activity 2 =Decreases in Activity 2 reflect decreases in funding for Provision of Industrial Facilities, ARMS Initiative, Layaway of Industrial Facilities, Maintenance of Inactive Facilities, and Conventional Amunition Demilitarization.

Reimbursable Program = FY03 reimbursable program increases reflecting a higher projection of orders.

DEPARTMENT OF THE ARMY
FY 03 PROCUREMENT PROGRAM

EXHIBIT P-1
October 2001

Appropriation: ****AMMUNITION****

Activity: **1. **AMMUNITION****

LINE NO.	ITEM NOMENCLATURE	ID	(DOLS) FY 00 UNIT COST	(THOUSANDS OF DOLLARS)						
				FY01		FY02		FY03		
				QTY	COST	QTY	COST	QTY	COST	
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	
	SMALL/MEDIUM CALIBER AMMUNITION									
1	CTG, 5.56MM, ALL TYPES (E00700)	A			78,101		63,811			89,870
2	CTG, 7.62MM, ALL TYPES (E02000)	A			9,414		14,146			15,975
3	CTG, 9MM, ALL TYPES (EA3000)	A			5,213		2,639			13,508
4	CTG, .50 CAL, ALL TYPES (E08000)	A			19,495		31,812			50,575
5	CTG, 20MM, ALL TYPES (E08900)	A			223		84			
6	CTG, 25MM, ALL TYPES (E08200)	A			65,845		69,743			33,087
7	CTG, 30MM, ALL TYPES (ER8120)	A			14,415		9,743			9,795
8	CTG, 40MM, ALL TYPES (ER8001)	A			60,505		27,232			71,703
	SUB-ACTIVITY TOTAL				253,211		219,210			284,513
	MORTAR AMMUNITION									
9	60MM MORTAR, ALL TYPES (E89600)				35,863		45,074			31,696
10	81MM MORTAR, ALL TYPES (E76000)				3,366		10,923			3,582
11	CTG, MORTAR, 120MM, ALL TYPES (E25500)	B			82,454		61,627			50,425
	SUB-ACTIVITY TOTAL				121,683		117,624			85,703

Appropriation: ****AMMUNITION****

Activity: **1. **AMMUNITION****

DEPARTMENT OF THE ARMY
FY 03 PROCUREMENT PROGRAM

EXHIBIT P-1
October 2001

LINE NO.	ITEM NOMENCLATURE	ID	(DOLS) FY 00 UNIT COST	(THOUSANDS OF DOLLARS)					
				FY 01		FY 02		FY 03	
				QTY	COST	QTY	COST	QTY	COST
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
	TANK AMMUNITION								
12	CTG TANK 105MM: ALL TYPES (E22203)						5,994		14,100
13	120MM TANK TRAINING, ALL TYPES (E89700)				148,939		142,688		154,963
14	CTG, TANK, 120MM TACTICAL, ALL TYPES (E78012)						35,348		43,254
	SUB-ACTIVITY TOTAL				148,939		184,030		212,317
	ARTILLERY AMMUNITION								
15	CTG ARTY 75MM BLANK M337A1 (E15200)	A		46	1,794	38	1,812	101	4,201
16	CTG ARTY 105MM DPICM M915 (E53500)	B			6,951				
17	CTG ARTY 105MM M927 (E93300)	A		2	2,979		14		
18	CTG ARTY 105MM ILLUM M314 SERIES (E21700)	A			400	6	5,002	6	5,208
19	PROJ ARTY 155MM SMOKE WP M825 (E67800)	A			4,579				
20	CTG ARTY 105MM HE M1 W/O FUZE (E21501)	A							25,200
21	PROJECTILE 155 MM DP BASEBLED M864 (E68500)	A							22,300
22	PROJ ARTY 155MM HE M795 (E66800)	A				5	2,483		
23	REMOTE AREA DENIAL ARTILLERY MUNITION (RADAM) (E675050)				53	104	23,056		
24	PROJ ARTY 155mm HE M107 (E27601)	A		204	45,454	223	41,112	155	30,200
25	MODULAR ARTILLERY CHARTE SYSTEM (MACS) (E27501)				39,565		71,910		122,411
	SUB-ACTIVITY TOTAL				101,775		145,389		209,520

Appropriation: ****AMMUNITION****

Activity: **1. **AMMUNITION****

DEPARTMENT OF THE ARMY
FY 03 PROCUREMENT PROGRAM

EXHIBIT P-1
October 2001

LINE NO.	ITEM NOMENCLATURE	ID	(DOLS) FY 00 UNIT COST	(THOUSANDS OF DOLLARS)					
				FY 01		FY 02		FY 03	
				QTY	COST	QTY	COST	QTY	COST
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
	ARTILLERY FUZES								
26	ARTILLERY FUZES, ALL TYPES (ER8000)				74,267		56,051		69,180
	SUB-ACTIVITY TOTAL				74,267		56,051		69,180
	MINES								
27	MINE, TRAINING, ALL TYPES (EA0800)				1,395		5,736		12,661
28	MINE AT VOLCANO: ALL TYPES (E72501)				14,862		6,951		
29	WIDE AREA MUNITIONS (E78100)	B		23	19,149		2,011		12,466
	SUB-ACTIVITY TOTAL				35,406		14,698		25,127
	ROCKETS								
30	BUNKER DEFEATING MUNITION (BDM) (E88400)	B			5,958		3,475		7,795
31	ROCKET, HYDRA 70, ALL TYPES (E34000)	A			155,330		135,704		22,400
	SUB-ACTIVITY TOTAL				161,288		139,179		30,195
	OTHER AMMUNITION								
32	DEMOLITION MUNITIONS, ALL TYPES (E55400)	A			17,480		22,511		28,001
33	GRENADES, ALL TYPES (E34000)	B			21,410		25,136		37,552
34	SIGNALS, ALL TYPES (E46900)	A			6,995		3,667		11,935
35	SIMULATORS, ALL TYPES (E51200)	A			2,537		3,385		3,942
	SUB-ACTIVITY TOTAL				48,422		54,699		81,430

Appropriation: ****AMMUNITION****

Activity: 1. ****AMMUNITION****

DEPARTMENT OF THE ARMY
FY 03 PROCUREMENT PROGRAM

EXHIBIT P-1
October 2001

LINE NO.	ITEM NOMENCLATURE	ID	(DOLS) FY 00 UNIT COST	(THOUSANDS OF DOLLARS)					
				FY 01		FY 02		FY 03	
				QTY	COST	QTY	COST	QTY	COST
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
	MISCELLANEOUS								
36	AMMO COMPONENTS, ALL TYPES (EB0016)	A			4,404		6,827		7,953
37	NON-LETHAL AMMUNITION, ALL TYPES (E91901)				18,713		20,412		5,890
38	CAD/PAD, ALL TYPES (EA0003)	A			4,268		5,002		4,800
39	ITEMS LESS THAN \$5 MILLION (EA0055)	A			9,996		12,945		8,739
40	AMMUNITION PECULIAR EQUIPMENT (EA0575)	A			7,787		8,755		4,792
41	FIRST DESTINATION TRANSPORTATION (AMMO) (EA0550)	A			7,782		5,182		5,836
42	CLOSEOUT LIABILITIES (EA85000)				5,724		31,989		10,017
	SUB-ACTIVITY TOTAL				58,674		91,112		48,027
	ACTIVITY TOTAL				1,003,665		1,021,992		1,046,012

Appropriation: ****AMMUNITION****

Activity: **1. **AMMUNITION****

DEPARTMENT OF THE ARMY
 FY 03 PROCUREMENT PROGRAM

EXHIBIT P-1
 October 2001

Appropriation: ****AMMUNITION****

Activity: **2. **AMMUNITION PRODUCTION BASE SUPPORT****

LINE NO.	ITEM NOMENCLATURE	ID	(DOLS) FY 00 UNIT COST	(THOUSANDS OF DOLLARS)						
				FY 01		FY 02		FY 03		
				QTY	COST	QTY	COST	QTY	COST	
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	
	PRODUCTION BASE SUPPORT									
43	PROVISION OF INDUSTRIAL FACILITIES (EP1000)				50,876		57,145		42,655	
44	LAYAWAY OF INDUSTRIAL FACILITIES (EP2000)				6,616		13,692		6,990	
45	MAINTENANCE OF INACTIVE FACILITIES (EP1500)				13,924		12,187		9,082	
46	CONVENTIONAL AMMO DEMILITARIZATION (EP1800)				75,726		72,541		50,030	
47	ARMS INITIATIVE (EP2500)				20,110		14,564		4,657	
	SUB-ACTIVITY TOTAL				167,252		170,129		113,414	
	ACTIVITY TOTAL				167,252		170,129		113,414	
	APPROPRIATION TOTAL				1,170,917		1,192,121		1,159,426	

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2	E02000	CTG, 7.62MM, ALL TYPES	46
3	EA3000	CTG, 9MM, ALL TYPES	48
4	E08000	CTG, .50 CAL, ALL TYPES	55
5	E08900	CTG, 20MM, ALL TYPES	77
6	E08200	CTG, 25MM, ALL TYPES	79
7	ER8120	CTG, 30MM, ALL TYPES	96
8	ER8001	CTG, 40MM, ALL TYPES	107
9	E89600	60MM MORTAR, ALL TYPES	130
10	E76000	81MM MORTAR, ALL TYPES	156
11	E25500	CTG, MORTAR, 120MM, ALL TYPES	158
12	E22203	CTG TANK 105MM: ALL TYPES	180
13	E89700	120MM TANK TRAINING, ALL TYPES	191
14	E78012	Ctg, Tank, 120mm Tactical, All Types	203
15	E15200	CTG ARTY 75MM BLANK M337A1	217
16	E53500	CTG ARTY 105MM DPICM M915	218
17	E93300	CTG ARTY 105MM M927	220
18	E21700	CTG ARTY 105MM ILLUM M314 SERIES	221
19	E67800	PROJ ARTY 155MM SMOKE WP M825	227
20	E21501	CTG ARTY 105MM HE M1 W/O FUZE	228
21	E68500	PROJECTILE 155 MILLIMETER DP BASEBLED M864 P71692	229

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23	E67505	REMOTE AREA DENIAL ARTILLERY MUNITION (RADAM)	231
24	E27601	PROJ ARTY 155MM HE M107	236
25	E27501	Modular Artillery Charge System (MACS), All Types	242
26	ER8000	ARTILLERY FUZES, ALL TYPES	250
27	EA0800	MINE, TRAINING, ALL TYPES	267
28	E72501	Mine AT VOLCANO,; All Types	273
29	E78100	WIDE AREA MUNITIONS	279
30	E88400	BUNKER DEFEATING MUNITION (BDM)	283
31	E37300	ROCKET, HYDRA 70, ALL TYPES	290
32	E55400	DEMOLITION MUNITIONS, ALL TYPES	308
33	E34000	GRENADES, ALL TYPES	325
34	E46900	SIGNALS, ALL TYPES	338
35	E51200	SIMULATORS, ALL TYPES	345
36	EB0016	AMMO COMPONENTS, ALL TYPES	347
37	E91901	Non-Lethal Ammunition, All Types	350
38	EA0003	CAD/PAD ALL TYPES	363
39	EA0055	ITEMS LESS THAN \$5 MILLION	364
40	EA0575	AMMUNITION PECULIAR EQUIPMENT	366
41	EA0550	FIRST DESTINATION TRANSPORTATION (AMMO)	367
42	EA8500	CLOSEOUT LIABILITIES	368

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44	EP2000	LAYAWAY OF INDUSTRIAL FACILITIES	380
45	EP1500	MAINTENANCE OF INACTIVE FACILITIES	382
46	EP1800	CONVENTIONAL AMMO DEMILITARIZATION	384
47	EP2500	ARMS INITIATIVE	386

Exhibit P-40, Budget Item Justification Sheet

Date:

February 2002

Appropriation/Budget Activity/Serial No:
Procurement of Ammunition, Army /1/Ammunition

P-1 Item Nomenclature
CTG, 5.56MM, ALL TYPES (E00700)

Program Elements for Code B Items:

Code:

Other Related Program Elements:

	Prior Years	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	To Complete	Total Prog
Proc Qty												
Gross Cost	1777.5	92.5	86.5	78.1	63.8	89.9	116.3	115.4	113.1	109.9		2643.1
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	1777.5	92.5	86.5	78.1	63.8	89.9	116.3	115.4	113.1	109.9		2643.1
Initial Spares												
Total Proc Cost	1777.5	92.5	86.5	78.1	63.8	89.9	116.3	115.4	113.1	109.9		2643.1
Flyaway U/C												
Wpn Sys Proc U/C												

Description:

This budget line includes 5.56MM ALL TYPES.

Non-add Defense Emergency Response Funding (DERF) and Cost of War funding to allow full training of troops to meet standards is provided as follows:

FY 2002 \$9.0 million
 FY 2003 \$9.3 million
 FY 2004 \$9.3 million
 FY 2005 \$9.3 million
 FY 2006 \$9.3 million
 FY 2007 \$9.3 million

Exhibit P-5, Weapon AMMO Cost Analysis		Appropriation/Budget Activity/Serial No. Procurement of Ammunition, Army / 1 / Ammunition			P-1 Line Item Nomenclature: CTG, 5.56MM, ALL TYPES (E00700)			Weapon System Type:			Date: February 2002		
AMMO Cost Elements	ID CD	FY 00			FY 01			FY 02			FY 03		
		TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
		\$000	x1000	\$	\$000	x1000	\$	\$000	x1000	\$	\$000	x1000	\$
CTG 5.56MM BALL M193					36						17078	61195	0.28
CTG 5.56MM BALL M193 (A066)					82								
CTG 5.56MM BLANK M200					5914	59893	0.10	9177	90575	0.10	6226	61700	0.10
CTG 5.56MM BLANK M200 LINKED F/SAW					6000	23443	0.26	1229	2997	0.41	2958	9080	0.33
CTG 5.56MM BALL M855 F/M16A2					2269	9611	0.24	24424	104991	0.23	7046	30495	0.23
CTG 5.56MM BALL M855 LINKED F/SAW					2017	6083	0.33	743	1628	0.46	1000	2590	0.39
CTG 5.56MM 4 BALL/1 TR M856 F/SAW					26554	86249	0.31	24712	57390	0.43	22280	70210	0.32
CTG 5.56MM M855 W/M27 LINK											2613	4560	0.57
CTG 5.56MM M855 10 RD CLIP,M2A1 BOX					19159	52144	0.37				11875	26862	0.44
CTG 5.56MM M855 10 RD CLIP COMM											15235	37798	0.40
CTG 5.56MM M855					12412	65443	0.18						
CTG 5.56MM ARMOR PIERCING M995					3658	3005	1.22	3526	2605	1.35	3559	2558	1.39

DERF/Cost of War funding detailed on the P-40 is not included on this form.													
Total					78101			63811			89870		

Exhibit P-40, Budget Item Justification Sheet

Date:

February 2002

Appropriation/Budget Activity/Serial No:
Procurement of Ammunition, Army /1/Ammunition

P-1 Item Nomenclature
CTG 5.56MM BALL M193 (E00701)

Program Elements for Code B Items:

Code:
A

Other Related Program Elements:

	Prior Years	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	To Complete	Total Prog
Proc Qty	12805850	59818	10001			61195	34015	36763	35417	35215		13078274
Gross Cost	902.1	12.6	2.2	0.0		17.1	8.7	8.0	7.9	8.1		966.6
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	902.1	12.6	2.2	0.0		17.1	8.7	8.0	7.9	8.1		966.6
Initial Spares												
Total Proc Cost	902.1	12.6	2.2	0.0		17.1	8.7	8.0	7.9	8.1		966.6
Flyaway U/C												
Wpn Sys Proc U/C												

Description:

The 5.56MM ball is an anti-personnel cartridge containing a 56 grain, gilding metal-jacketed bullet with a lead antimony core. It is issued for use in the M16/M16A1 series rifle. This item is Code A, approved for service use.

Justification:

This item is a training standard item. The FY 2003 procurement supports annual peacetime training and builds war reserve inventory in accordance with the Army's procurement goals.

TYPE CLASSIFICATION DATE:

1975

ACQUISITION MANAGER:

OSC, Rock Island, Illinois

Exhibit P-5, Weapon AMMO Cost Analysis		Appropriation/Budget Activity/Serial No. Procurement of Ammunition, Army / 1 / Ammunition			P-1 Line Item Nomenclature: CTG 5.56MM BALL M193 (E00701)			Weapon System Type:			Date: February 2002		
AMMO Cost Elements	ID CD	FY 00			FY 01			FY 02			FY 03		
		TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
		\$000	x1000	\$	\$000	x1000	\$	\$000	x1000	\$	\$000	x1000	\$
AMMUNITION HARDWARE													
Load, Assemble, and Pack											16461	61195	0.27
Box Metal M2A1											516	75	6.91
SubTotal AMMO Hardware											16977		
Production Support Costs													
Production Engineering					36						72		
Quality Assurance											5		
Industrial Stock Support											24		
SubTotal Prod. Support					36						101		
Total					36						17078		0.28

Exhibit P-5a, Budget Procurement History and Planning

Date:
February 2002

Appropriation/Budget Activity/Serial No:
Procurement of Ammunition, Army / 1 / Ammunition

Weapon System Type:

P-1 Line Item Nomenclature:
CTG 5.56MM BALL M193 (E00701)

WBS Cost Elements:	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY x1000	Unit Cost \$000	Specs Avail Now?	Date Revsn Avail	RFP Issue Date
Load, Assemble, and Pack FY 2003	Alliant Tech (LCAAP) Independence, MO	SS/FP	OSC, Rock Island, IL	Jan 2003	Oct 2003	61195	0.27	Y		
Box Metal M2A1 FY 2003	TBS	C/FP	OSC, Rock Island, IL	Jan 2003	Jul 2003	75	6.91	Y		

REMARKS: TBS - To Be Selected

Exhibit P-40, Budget Item Justification Sheet

Date:

February 2002

Appropriation/Budget Activity/Serial No:
Procurement of Ammunition, Army /1/Ammunition

P-1 Item Nomenclature
CTG 5.56MM BLANK M200 (E01100)

Program Elements for Code B Items:

Code:
A

Other Related Program Elements:

	Prior Years	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	To Complete	Total Prog
Proc Qty	3133758	67919	16001	59893	90575	61700	65305	65318	65039	64973		3690481
Gross Cost	291.7	10.2	2.1	5.9	9.2	6.2	6.8	7.0	7.1	7.3		353.4
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	291.7	10.2	2.1	5.9	9.2	6.2	6.8	7.0	7.1	7.3		353.4
Initial Spares												
Total Proc Cost	291.7	10.2	2.1	5.9	9.2	6.2	6.8	7.0	7.1	7.3		353.4
Flyaway U/C												
Wpn Sys Proc U/C												

Description:

This cartridge is used for simulated firing in training maneuvers and for saluting purposes in the M16 Series Rifle and Squad Automatic Weapon. A blank-firing attachment on the weapon is required for firing automatic or semi-automatic weapons. The cartridge can be identified by the rose petal (rosette crimp) closure on the mouth and by the identification knurl about one-half inch from the base of the cartridge. The mouth of the cartridge is sealed and identified with lacquer. This item is Code A, approved for service use.

Justification:

This is a training unique item; not used in combat. FY 2003 procurement supports annual peacetime training and builds a depot level in accordance with the Army's procurement goals.

TYPE CLASSIFICATION DATE:

Prior to 1977

ACQUISITION MANAGER:

OSC, Rock Island, Illinois

Exhibit P-5, Weapon AMMO Cost Analysis		Appropriation/Budget Activity/Serial No. Procurement of Ammunition, Army / 1 / Ammunition			P-1 Line Item Nomenclature: CTG 5.56MM BLANK M200 (E01100)			Weapon System Type:			Date: February 2002		
AMMO Cost Elements	ID CD	FY 00			FY 01			FY 02			FY 03		
		TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
		\$000	x1000	\$	\$000	x1000	\$	\$000	x1000	\$	\$000	x1000	\$
AMMUNITION HARDWARE													
Load, Assemble, and Pack					5402	59893	0.09	8496	90575	0.09	5763	61700	0.09
Box Metal M2A1					345	53	6.47	531	81	6.58	380	55	6.91
SubTotal AMMO Hardware					5747			9027			6143		
Production Support Costs													
Production Engineering					67			66			68		
Acceptance Testing					14			8			6		
Interim Transportation					3			1					
Industrial Stock Support					83			75			9		
SubTotal Prod. Support					167			150			83		
Total					5914		0.10	9177		0.10	6226		0.11

Exhibit P-5a, Budget Procurement History and Planning

Date:
February 2002

Appropriation/Budget Activity/Serial No:
Procurement of Ammunition, Army / 1 / Ammunition

Weapon System Type:

P-1 Line Item Nomenclature:
CTG 5.56MM BLANK M200 (E01100)

WBS Cost Elements:	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY x1000	Unit Cost \$	Specs Avail Now?	Date Revsn Avail	RFP Issue Date
Load, Assemble, and Pack										
FY 2001	Alliant Tech (LCAAP) Independence, MO	SS/FP	OSC, Rock Island, IL	Mar 2001	Aug 2001	59893	0.09			
FY 2002	Alliant Tech (LCAAP) Independence, MO	SS/FP	OSC, Rock Island, IL	Jan 2002	Oct 2002	90575	0.09	Y		
FY 2003	Alliant Tech (LCAAP) Independence, MO	SS/FP	OSC, Rock Island, IL	Jan 2003	Oct 2003	61700	0.09	Y		
Box Metal M2A1										
FY 2001	Brockway Standard Homerville, GA	C/FP	OSC, Rock Island, IL	May 2001	Jul 2001	53	6.47			
FY 2002	TBS	C/FP	OSC, Rock Island, IL	Mar 2002	Jul 2002	81	6.58	Y		
FY 2003	TBS	C/FP	OSC, Rock Island, IL	Jan 2003	Jul 2003	55	6.91	Y		

REMARKS: TBS - To Be Selected

Exhibit P-40, Budget Item Justification Sheet

Date:

February 2002

Appropriation/Budget Activity/Serial No:
Procurement of Ammunition, Army /1/Ammunition

P-1 Item Nomenclature
CTG 5.56MM BLANK M200 LINKED F/SAW (E01101)

Program Elements for Code B Items:

Code:
A

Other Related Program Elements:

	Prior Years	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	To Complete	Total Prog
Proc Qty	251712	37506	31658	23443	2977	9080	32726	32649	37780	37665		497196
Gross Cost	68.6	12.4	8.2	6.0	1.2	3.0	9.0	8.6	10.2	10.4		137.6
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	68.6	12.4	8.2	6.0	1.2	3.0	9.0	8.6	10.2	10.4		137.6
Initial Spares												
Total Proc Cost	68.6	12.4	8.2	6.0	1.2	3.0	9.0	8.6	10.2	10.4		137.6
Flyaway U/C												
Wpn Sys Proc U/C												

Description:

The 5.56MM blank M200 round is a standard blank cartridge currently used during training to simulate live-ammunition noises and flash. This round is linked in 200 round belts and loaded into a plastic ammunition container that attaches directly to the M249 Squad Automatic Weapon (SAW), a lightweight, belt-fed, one-man operable machine gun. Four plastic containers are packed in a PA108 container. This item is Code A, approved for service use.

Justification:

This is a training unique item; not used in combat. The FY 2003 procurement supports annual peacetime training and builds a depot level in accordance with the Army's procurement goals.

TYPE CLASSIFICATION DATE: 1983

ACQUISITION MANAGER: OSC, Rock Island, Ill

Non-add Cost of War funding to allow full training of troops to meet standards is provided as follows:

FY 2003 2689 thousand rounds/\$0.876 million
 FY 2004 3175 thousand rounds/\$0.876 million
 FY 2005 3326 thousand rounds/\$0.876 million
 FY 2006 3255 thousand rounds/\$0.876 million
 FY 2007 3180 thousand rounds/\$0.876 million

Exhibit P-5, Weapon AMMO Cost Analysis		Appropriation/Budget Activity/Serial No. Procurement of Ammunition, Army / 1 / Ammunition			P-1 Line Item Nomenclature: CTG 5.56MM BLANK M200 LINKED F/SAW (E01101)			Weapon System Type:			Date: February 2002		
AMMO Cost Elements	ID CD	FY 00			FY 01			FY 02			FY 03		
		TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
		\$000	x1000	\$	\$000	x1000	\$	\$000	x1000	\$	\$000	x1000	\$
AMMUNITION HARDWARE													
Complete Round					5774	23443	0.25	1110	2977	0.37	2917	9080	0.32
SubTotal AMMO Hardware					5774			1110			2917		
Production Support Costs													
Production Engineering					109			106			35		
Quality Assurance					33			4			2		
Industrial Stock Support					84			9			4		
SubTotal Prod. Support					226			119			41		
Cost of War funding detailed on the P-40 is not included on this form.													
Total					6000		0.26	1229		0.41	2958		0.33

Exhibit P-5a, Budget Procurement History and Planning

Date:
February 2002

Appropriation/Budget Activity/Serial No:
Procurement of Ammunition, Army / 1 / Ammunition

Weapon System Type:

P-1 Line Item Nomenclature:
CTG 5.56MM BLANK M200 LINKED F/SAW (E01101)

WBS Cost Elements:	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY x1000	Unit Cost \$	Specs Avail Now?	Date Revsn Avail	RFP Issue Date
Complete Round										
FY 2001	Alliant Tech (LCAAP) Independence, MO	SS/FP	OSC, Rock Island, IL	Mar 2001	Sep 2002	23443	0.25			
FY 2002	Alliant Tech (LCAAP) Independence, MO	SS/FP	OSC, Rock Island, IL	Feb 2002	Jan 2003	2977	0.37	Y		
FY 2003	Alliant Tech (LCAAP) Independence, MO	SS/FP	OSC, Rock Island, IL	Jan 2003	Oct 2003	9080	0.32	Y		

REMARKS: Non-add Cost of War funding to allow full training of troops to meet standards is provided in FY 2003 as follows: \$0.876 million to buy a quantity of 2689. Contract will be SS/FP with Alliant Tech (LCAAP), Independence, MO. The PCO is located at OSC, Rock Island, IL. Contract will be awarded with a planned procurement buy.

FY 03 / 04 BUDGET PRODUCTION SCHEDULE

P-1 Item Nomenclature: CTOG 5.56MM BLANK M200 LINKED F/SAW (E01101) Date: February 2002

COST ELEMENTS	MFR	FY	SERV	PROC QTY x1Mil	ACCEP PRIOR TO 1 OCT	BAL DUE AS OF 1 OCT	Fiscal Year 03														Fiscal Year 04										L A T E R
							Calendar Year 03														Calendar Year 04										
							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	
Complete Round																															
	1	FY 01	A	23.40	0.00	23.40																									
	1	FY 02	A	3.00	0.00	3.00						A																			
	1	FY 03	A	9.10	0.00	9.10															A										
	1	FY 01	AF	0.32	0.00	0.32	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.02	0.02	0.02	0.02													
	1	FY 02	AF	1.42	0.00	1.42												0.12	0.12	0.11	0.12	0.12	0.12	0.12	0.12	0.12	0.11	0.12	0.12		
	1	FY 03	AF	3.52	0.00	3.52																									
	1	FY 01	MC	9.71	0.00	9.71	0.81	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.90	0.80													
	1	FY 02	MC	6.36	0.00	6.36												0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.70	0.66	
	1	FY 03	MC	8.63	0.00	8.63																									
	1	FY 02	SOF	1.00	0.00	1.00												0.09	0.08	0.08	0.09	0.08	0.09	0.08	0.08	0.08	0.08	0.09	0.08		
	1	FY 03	SOF	1.00	0.00	1.00																									
Cost of War																															
	1	FY 03	A	2.70	0.00	2.70																									
Total				70.16		70.16	0.84	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.82	0.82	0.92	3.82	7.71	7.70	7.09	1.06	1.05	1.06	1.05	1.05	1.05	0.89	1.26	1.21	24.95

MFR	NAME/LOCATION	MIN.	1-8-5	MAX.	REACHED D+	ADMINLEAD TIME	MFR	TOTAL	REMARKS
						Prior 1 Oct	After 1 Oct	After 1 Oct	
1	Alliant Tech (LCAAP), Independence, MO	.00	14.10	48.70	6				See remarks on P5a on Cost of War.
						INITIAL	6	4	9
						REORDER	6	4	9
						INITIAL			
						REORDER			
						INITIAL			
						REORDER			
						INITIAL			
						REORDER			
						INITIAL			
						REORDER			

FY 05 / 06 BUDGET PRODUCTION SCHEDULE							P-1 Item Nomenclature: CTG 5.56MM BLANK M200 LINKED F/SAW (E01101)													Date: February 2002				L A T E R						
COST ELEMENTS	M F R	FY	S E R V	PROC QTY x1Mil	ACCEP PRIOR TO 1 OCT	BAL DUE AS OF 1 OCT	Fiscal Year 05													Fiscal Year 06										
							Calendar Year 05													Calendar Year 06										
							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
Complete Round																														
	1	FY 01	A	23.40	23.40	0.00																						0		
	1	FY 02	A	3.00	3.00	0.00																						0		
	1	FY 03	A	9.10	0.00	9.10	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.90	0.80	0.90	0.90											0		
	1	FY 01	AF	0.32	0.32	0.00																						0		
	1	FY 02	AF	1.42	1.42	0.00																						0		
	1	FY 03	AF	3.52	0.00	3.52	0.30	0.30	0.26	0.30	0.30	0.30	0.30	0.30	0.30	0.26	0.30	0.30										0		
	1	FY 01	MC	9.71	9.71	0.00																						0		
	1	FY 02	MC	6.36	6.36	0.00																						0		
	1	FY 03	MC	8.63	0.00	8.63	1.00	1.00	0.70	1.00	1.00	1.00	1.00	1.00	0.93													0		
	1	FY 02	SOF	1.00	1.00	0.00																						0		
	1	FY 03	SOF	1.00	0.00	1.00	0.09	0.08	0.08	0.09	0.08	0.09	0.08	0.08	0.08	0.08	0.09	0.08										0		
Cost of War																														
	1	FY 03	A	2.70	0.00	2.70	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.30	0.30	0.30										0		
Total																														
							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		MFR Number	ADMINLEAD TIME				MFR		TOTAL		REMARKS											
	MIN.				1-8-5			D+			Prior 1 Oct				After 1 Oct		After 1 Oct		See remarks on P5a on Cost of War.											
1	Alliant Tech (LCAAP), Independence, MO				.00 14.10 48.70			6		1	INITIAL				6		4		9		Line for Cost of War is Non-Add.									
											REORDER				6		4		9											
											INITIAL																			
											REORDER																			
											INITIAL																			
											REORDER																			
											INITIAL																			
											REORDER																			
											INITIAL																			
											REORDER																			

Exhibit P-40, Budget Item Justification Sheet

Date:

February 2002

Appropriation/Budget Activity/Serial No:
Procurement of Ammunition, Army /1/Ammunition

P-1 Item Nomenclature
CTG 5.56MM BALL M855 F/M16A2 (E04601)

Program Elements for Code B Items:

Code:
A

Other Related Program Elements:

	Prior Years	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	To Complete	Total Prog
Proc Qty	1089347	89967	118129	9611	104991	30495	33581	33170	33392	33615		1576298
Gross Cost	297.2	28.1	24.0	2.3	24.4	7.0	7.3	7.5	7.7	7.9		413.3
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	297.2	28.1	24.0	2.3	24.4	7.0	7.3	7.5	7.7	7.9		413.3
Initial Spares												
Total Proc Cost	297.2	28.1	24.0	2.3	24.4	7.0	7.3	7.5	7.7	7.9		413.3
Flyaway U/C												
Wpn Sys Proc U/C												

Description:

The M855 ball has a steel conical insert in the ogive of the bullet which increases the helmet-penetration range substantially compared to the 5.56MM M193 ball round. This cartridge is identified by a green bullet tip and is intended for use against personnel and non-armored targets. This item is used in the M16A2 rifle. This item is Code A, approved for service use.

Justification:

This is a training standard item used in both training and combat. FY 2003 procurement supports annual peacetime training and builds a war reserve inventory in accordance with the Army's procurement goals.

TYPE CLASSIFICATION DATE: 1982

ACQUISITION MANAGER: OSC, Rock Island, Ill

Non-Add Defense Emergency Response Funding (DERF) and Cost of War funding to allow full training of troops to meet standards is provided as follows:

FY 2002 44,196 thousand rounds/\$9.0 million
 FY 2003 6,008 thousand rounds/\$1.4 million
 FY 2004 6,241 thousand rounds/\$1.4 million
 FY 2005 5,996 thousand rounds/\$1.4 million
 FY 2006 5,869 thousand rounds/\$1.4 million
 FY 2007 5,755 thousand rounds/\$1.4 million

Exhibit P-5, Weapon AMMO Cost Analysis		Appropriation/Budget Activity/Serial No. Procurement of Ammunition, Army / 1 / Ammunition			P-1 Line Item Nomenclature: CTG 5.56MM BALL M855 F/M16A2 (E04601)			Weapon System Type:			Date: February 2002		
AMMO Cost Elements	ID CD	FY 00			FY 01			FY 02			FY 03		
		TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
		\$000	x1000	\$	\$000	x1000	\$	\$000	x1000	\$	\$000	x1000	\$
AMMUNITION HARDWARE													
Load, Assemble, and Pack					1939	9611	0.20	22846	104991	0.22	6242	30495	0.20
Box Metal M2A1					76	12	6.47	843	128	6.58	257	37	6.91
SubTotal AMMO Hardware					2015			23689			6499		
Production Support Costs													
Production Engineering					166			326			202		
Quality Assurance					57			14			336		
Interim Transportation					1			1					
Industrial Stock Support					30			197			9		
Sub Total Prod. Support					254			538			547		
COST - Nonrecurring													
Value Engineering Change Proposal								197					
----- DERF/Cost of War funding detailed on P-40 is not included on this form.													
Total					2269		0.24	24424		0.23	7046		0.24

Exhibit P-5a, Budget Procurement History and Planning

Date:
February 2002

Appropriation/Budget Activity/Serial No:
Procurement of Ammunition, Army / 1 / Ammunition

Weapon System Type:

P-1 Line Item Nomenclature:
CTG 5.56MM BALL M855 F/M16A2 (E04601)

WBS Cost Elements:	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY x1000	Unit Cost \$	Specs Avail Now?	Date Revsn Avail	RFP Issue Date
Load, Assemble, and Pack										
FY 2001	Alliant Tech (LCAAP) Independence, MO	SS/FP	OSC, Rock Island, IL	Mar 2001	Sep 2001	9611	0.20			
FY 2002	Alliant Tech (LCAAP) Independence, MO	SS/FP	OSC, Rock Island, IL	Dec 2001	Oct 2002	104991	0.22	Y		
FY 2003	Alliant Tech (LCAAP) Independence, MO	SS/FP	OSC, Rock Island, IL	Jan 2003	Oct 2003	30495	0.20	Y		
Box Metal M2A1										
FY 2001	Brockway Standard Homerville, GA	C/FP	OSC, Rock Island, IL	May 2001	Jul 2001	12	6.47			
FY 2002	TBS	C/FP	OSC, Rock Island, IL	Jan 2002	Jul 2002	128	6.58	Y		
FY 2003	TBS	C/FP	OSC, Rock Island, IL	Jan 2003	Jul 2003	37	6.91	Y		

REMARKS: TBS - To Be Selected

Non-Add Defense Emergency Response Funding (DERF) and Cost of War funding to allow full training of troops to meet standards is provided in FY 2002 (44,196 thousand rounds/\$9.0 million) and FY 2003 (6,008 thousand rounds/\$1.4 million). Contract will be SS/FP with Alliant Tech (LCAAP), Independence, MO. The PCO is located at OSC, Rock Island, IL. Contract will be awarded with a planned procurement buy.

FY 02 / 03 BUDGET PRODUCTION SCHEDULE	P-1 Item Nomenclature: CTG 5.56MM BALL M855 F/M16A2 (E04601)	Date: February 2002
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COST ELEMENTS	MFR	FY	SERV	PROC QTY x1Mil	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	
Load, Assemble, and Pack																															
	1	FY 01	A	9.6	0.5	9.1	8.0	1.1																						0	
	1	FY 02	A	105.0	0.0	105.0			A								9.0	9.0	7.0	9.0	9.0	9.0	9.0	9.0	9.0	9.0	8.0	9.0	9.0	0	
	1	FY 03	A	30.5	0.0	30.5														A										30.5	
	1	FY 01	AF	4.8	0.0	4.8	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4														0	
	1	FY 03	AF	1.4	0.0	1.4																								1.4	
	1	FY 01	MC	30.4	0.0	30.4	2.6	2.6	2.2	2.6	2.6	2.6	2.6	2.6	2.6	2.2	2.6	2.6												0	
	1	FY 02	MC	5.6	0.0	5.6											0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0	
	1	FY 02	NS	3.8	0.0	3.8											0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0	
	1	FY 03	NS	0.3	0.0	0.3																								0.3	
	1	FY 01	SOF	6.2	0.0	6.2	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5											0	
	1	FY 02	SOF	6.9	0.0	6.9											0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0	
	1	FY 03	SOF	6.9	0.0	6.9																								6.9	
DERF/Cost of War																															
	1	FY 02	A	44.2	0.0	44.2											3.6	3.6	3.6	3.7	3.7	3.7	3.7	3.8	3.7	3.7	3.7	3.7	0		
	1	FY 03	A	6.0	0.0	6.0																								6.0	
Total				261.6	0.5	261.1	11.5	4.6	3.1	3.5	3.5	3.5	3.5	3.5	3.5	3.1	3.5	3.5	14.0	14.0	11.9	14.1	14.1	14.1	14.1	14.1	14.1	13.0	14.1	45.1	

	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	ADMINLEAD TIME		MFR After 1 Oct	TOTAL After 1 Oct	REMARKS
		MIN.	1-8-5	MAX.			Prior 1 Oct	After 1 Oct			
1	Alliant Tech (LCAAP), Independence, MO	.00	19.40	67.50	6	1	INITIAL	6	4	9	13
							REORDER	6	4	9	13
							INITIAL				
							REORDER				
							INITIAL				
							REORDER				
							INITIAL				
							REORDER				
							INITIAL				
							REORDER				

COST ELEMENTS	M F R	FY	S E R V	PROC QTY x1Mil	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										
							O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	
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	R	Y	N	L	G	P				
Load, Assemble, and Pack																											
	1	FY 01	A	9.6	9.6	0.0																					0
	1	FY 02	A	105.0	105.0	0.0																					0
	1	FY 03	A	30.5	0.0	30.5	2.6	2.6	2.2	2.6	2.6	2.6	2.6	2.6	2.6	2.3	2.6	2.6									0
	1	FY 01	AF	4.8	4.8	0.0																					0
	1	FY 03	AF	1.4	0.0	1.4	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1									0
	1	FY 01	MC	30.4	30.4	0.0																					0
	1	FY 02	MC	5.6	5.6	0.0																					0
	1	FY 02	NS	3.8	3.8	0.0																					0
	1	FY 03	NS	0.3	0.0	0.3	0.1	0.1	0.1																		0
	1	FY 01	SOF	6.2	6.2	0.0																					0
	1	FY 02	SOF	6.9	6.9	0.0																					0
	1	FY 03	SOF	6.9	0.0	6.9	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6									0
DERF/Cost of War																											
	1	FY 02	A	44.2	44.2	0.0																					0
	1	FY 03	A	6.0	0.0	6.0	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5									0
Total				261.6	216.5	45.1	3.9	3.9	3.4	3.8	3.8	3.8	3.8	3.8	3.8	3.5	3.8	3.8									

M F R	NAME/LOCATION	PRODUCTION RATES			REACHED	MFR Number	ADMINLEAD TIME		MFR	TOTAL	REMARKS
		MIN.	1-8-5	MAX.	D+		Prior 1 Oct	After 1 Oct	After 1 Oct	After 1 Oct	
1	Alliant Tech (LCAAP), Independence, MO	.00	19.40	67.50	6	1	INITIAL	6	4	9	13
							REORDER	6	4	9	13
							INITIAL				
							REORDER				
							INITIAL				
							REORDER				
							INITIAL				
							REORDER				
							INITIAL				
							REORDER				

Exhibit P-40, Budget Item Justification Sheet

Date: February 2002

Appropriation/Budget Activity/Serial No:
Procurement of Ammunition, Army /1/Ammunition

P-1 Item Nomenclature
CTG 5.56MM 4 BALL M855/1 TRACER M856 F/SAW (E04604)

Program Elements for Code B Items:

Code:
A

Other Related Program Elements:

	Prior Years	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	To Complete	Total Prog
Proc Qty	329790	32875	48746	86249	57390	70210	114722	114485	119026	98392		1071885
Gross Cost	126.8	16.0	14.6	26.6	24.7	22.3	39.2	40.3	41.2	34.9		386.6
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	126.8	16.0	14.6	26.6	24.7	22.3	39.2	40.3	41.2	34.9		386.6
Initial Spares												
Total Proc Cost	126.8	16.0	14.6	26.6	24.7	22.3	39.2	40.3	41.2	34.9		386.6
Flyaway U/C												
Wpn Sys Proc U/C												

Description:

The M855 ball and M856 tracer rounds are linked for use in the lightweight, one-man operable M249 Squad Automatic Weapon (SAW). The ball round has a steel, conical insert in the ogive of the bullet, which increases helmet penetration substantially compared to the 5.56MM, M193 ball round. The tracer round M856 has a longer tracer column and an improved pyrotechnic mixture, which results in an increased daylight trace range compared to the 5.56MM M196 tracer round. The rounds are linked in a 200-round belt using the M27 link and are loaded into a plastic container which attaches directly to the M249 SAW. This item is Code A, approved for service use.

Justification:

This is a training standard item used in both training and combat. FY 2003 procurement supports annual peacetime training and builds a war reserve inventory in accordance with the Army's procurement goals.

TYPE CLASSIFICATION DATE: 1982

ACQUISITION MANAGER: OSC, Rock Island, Ill

Non-Add Cost of War funding to allow full training of troops to meet standards Is provided as follows:

- FY 2003 10,358 thousand rounds/\$3.287 million
- FY 2004 9,575 thousand rounds/\$3.287 million
- FY 2005 9,285 thousand rounds/\$3.287 million
- FY 2006 9,453 thousand rounds/\$3.287 million
- FY 2007 9,228 thousand rounds/\$3.287 million

Exhibit P-5, Weapon AMMO Cost Analysis		Appropriation/Budget Activity/Serial No. Procurement of Ammunition, Army / 1 / Ammunition			P-1 Line Item Nomenclature: CTG 5.56MM 4 BALL M855/1 TRACER M856 F/SAW (E04604)			Weapon System Type:			Date: February 2002		
AMMO Cost Elements	ID CD	FY 00			FY 01			FY 02			FY 03		
		TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
		\$000	x1000	\$	\$000	x1000	\$	\$000	x1000	\$	\$000	x1000	\$
AMMUNITION HARDWARE													
Complete Round					25858	86249	0.30	24339	57390	0.42	22116	70210	0.32
SubTotal AMMO Hardware					25858			24339			22116		
Production Support Costs													
Production Engineering					312			167			128		
Quality Assurance					9			4			5		
Industrial Stock Support					375			202			31		
SubTotal Prod. Support					696			373			164		
----- Cost of War funding detailed on the P-40 is not included on this form.													
Total					26554		0.31	24712		0.43	22280		0.32

Exhibit P-5a, Budget Procurement History and Planning

Date:
February 2002

Appropriation/Budget Activity/Serial No: Procurement of Ammunition, Army / 1 / Ammunition		Weapon System Type:			P-1 Line Item Nomenclature: CTG 5.56MM 4 BALL M855/1 TRACER M856 F/SAW (E04604)					
WBS Cost Elements:	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY x1000	Unit Cost \$	Specs Avail Now?	Date Revsn Avail	RFP Issue Date
Complete Round										
FY 2001	Alliant Tech (LCAAP) Independence, MO	SS/FP	OSC, Rock Island, IL	Mar 2001	Dec 2001	86249	0.30			
FY 2002	Alliant Tech (LCAAP) Independence, MO	SS/FP	OSC, Rock Island, IL	Jan 2002	Oct 2002	57390	0.42	Y		
FY 2003	Alliant Tech (LCAAP) Independence, MO	SS/FP	OSC, Rock Island, IL	Jan 2003	Oct 2003	70210	0.32	Y		

REMARKS: Non-add Cost of War funding to allow full training of troops to meet standards is provided in FY 2003 as follows: \$3.287 million to buy a quantity of 10,358 thousand rounds. Contract will be SS/FP with Alliant Tech (LCAAP), Independence, MO. The PCO is located at OSC, Rock Island, IL. Contract will be awarded with a planned procurement buy.

FY 02 / 03 BUDGET PRODUCTION SCHEDULE	P-1 Item Nomenclature: CTG 5.56MM 4 BALL M855/1 TRACER M856 F/SAW (E04604)	Date: February 2002
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COST ELEMENTS	M F R	FY	S E R V	PROC QTY x1Mil	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	A	E	
Complete Round																															
	1	FY 01 P	A	48.7	33.0	15.7	5.4	5.3	5.0																						
	1	FY 01	A	86.2	0.0	86.2			0.2	5.0	5.0	5.0	12.0	12.0	12.0	11.0	12.0	12.0													
	1	FY 02	A	57.4	0.0	57.4				A								5.0	5.0	3.6	5.0	5.0	5.0	5.0	5.0	5.0					
	1	FY 03	A	70.2	0.0	70.2															A										
	1	FY 01	AF	2.2	0.0	2.2	0.2	0.2	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.2	0.2													
	1	FY 03	AF	1.1	0.0	1.1																									
	1	FY 01	CG	0.1	0.0	0.1	0.1																								
	1	FY 01	MC	17.4	0.0	17.4	1.5	1.5	1.2	1.5	1.5	1.5	1.5	1.5	1.5	1.2	1.5	1.5													
	1	FY 02	MC	8.1	0.0	8.1												0.7	0.7	0.6	0.7	0.7	0.7	0.7	0.7	0.7					
	1	FY 03	MC	4.4	0.0	4.4																									
	1	FY 03	NS	0.2	0.0	0.2																									
	1	FY 01	SOF	4.0	0.0	4.0	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3														
	1	FY 02	SOF	3.0	0.0	3.0												0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3					
	1	FY 03	SOF	2.0	0.0	2.0																									
Cost of War																															
	1	FY 03	A	10.4	0.0	10.4																									
Total				315.4	33.0	282.4	7.6	7.3	6.8	7.0	7.0	7.0	14.0	14.0	14.0	12.6	14.0	14.0	6.0	6.0	4.5	6.0	6.0	6.0	6.0	6.0	6.0				

M F R	NAME/LOCATION	PRODUCTION RATES			REACHED	MFR Number	ADMINLEAD TIME	MFR	TOTAL	REMARKS	
		MIN.	1-8-5	MAX.	D+	1	Prior 1 Oct	After 1 Oct	After 1 Oct	After 1 Oct	See remarks on P5A on Cost of War. Line for Cost of War is non add.
1	Alliant Tech (LCAAP), Independence, MO	.00	15.00	39.30	0		6	4	9	13	
							6	4	9	13	

FY 04 / 05 BUDGET PRODUCTION SCHEDULE										P-1 Item Nomenclature: CTG 5.56MM 4 BALL M855/1 TRACER M856 F/SAW (E04604)										Date: February 2002															
COST ELEMENTS	MFR	FY	SERV	PROC QTY x1Mil	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																		
							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				
Complete Round																																			
	1	FY 01 P	A	48.7	48.7	0.0																													
	1	FY 01	A	86.2	86.2	0.0																													
	1	FY 02	A	57.4	57.4	0.0																													
	1	FY 03	A	70.2	0.0	70.2	5.9	5.9	5.5	5.9	5.9	5.9	5.9	5.9	5.9	5.7	5.9																		
	1	FY 01	AF	2.2	2.2	0.0																													
	1	FY 03	AF	1.1	0.0	1.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1																		
	1	FY 01	CG	0.1	0.1	0.0																													
	1	FY 01	MC	17.4	17.4	0.0																													
	1	FY 02	MC	8.1	8.1	0.0																													
	1	FY 03	MC	4.4	0.0	4.4	0.4	0.4	0.2	0.4	0.4	0.4	0.4	0.4	0.4	0.2	0.4	0.4																	
	1	FY 03	NS	0.2	0.0	0.2	0.1	0.1																											
	1	FY 01	SOF	4.0	4.0	0.0																													
	1	FY 02	SOF	3.0	3.0	0.0																													
	1	FY 03	SOF	2.0	0.0	2.0	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2																		
Cost of War																																			
	1	FY 03	A	10.4	0.0	10.4	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.8	0.8	0.8	0.8																
Total				315.4	227.2	88.2	7.6	7.6	6.8	7.5	7.5	7.5	7.5	7.5	7.4	6.9	7.4	7.3																	
							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					
MFR	NAME/LOCATION		PRODUCTION RATES			REACHED	MFR	ADMINLEAD TIME			MFR	TOTAL	REMARKS																						
R			MIN.	1-8-5	MAX.	D+	Number	Prior 1 Oct	After 1 Oct	After 1 Oct	After 1 Oct	See remarks on P5A on Cost of War.																							
1	Alliant Tech (LCAAP), Independence, MO		.00	15.00	39.30	0	1	6	4	9	13	Line for Cost of War is non add.																							

Exhibit P-40, Budget Item Justification Sheet

Date: February 2002

Appropriation/Budget Activity/Serial No:
Procurement of Ammunition, Army /1/Ammunition

P-1 Item Nomenclature
CTG 5.56MM, M855, 10 RD CLIP: M2A1 BOX, LEAD FREE (E95400)

Program Elements for Code B Items:

Code:
A

Other Related Program Elements:

	Prior Years	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	To Complete	Total Prog
Proc Qty				52144		26862	47263	44719	38347	44128		253463
Gross Cost				19.2		11.9	18.9	18.2	16.2	18.5		102.9
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)				19.2		11.9	18.9	18.2	16.2	18.5		102.9
Initial Spares												
Total Proc Cost				19.2		11.9	18.9	18.2	16.2	18.5		102.9
Flyaway U/C												
Wpn Sys Proc U/C												

Description:

The Squad Automatic Weapon (SAW) ball round has a steel conical insert in the ogive of the bullet. This item is lead-free or "Green". This round will be linked in a 10-round clip. This item is Code A, approved for service use.

Justification:

The intended use is to support training on environmentally "clean" ranges. The FY 2003 procurement supports annual peacetime training and builds a depot level in accordance with the Army's procurement goals.

Type Classification Date: 1982

Acquisition Manger: OSC, Rock Island, IL

Exhibit P-5, Weapon AMMO Cost Analysis		Appropriation/Budget Activity/Serial No. Procurement of Ammunition, Army / 1 / Ammunition			P-1 Line Item Nomenclature: CTG 5.56MM, M855, 10 RD CLIP: M2A1 BOX, LEAD FREE (E95400)			Weapon System Type:			Date: February 2002		
AMMO Cost Elements	ID CD	FY 00			FY 01			FY 02			FY 03		
		TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
		\$000	x1000	\$	\$000	x1000	\$	\$000	x1000	\$	\$000	x1000	\$
AMMUNITION HARDWARE													
Load, Assemble, and Pack					18156	52144	0.35				11156	26862	0.42
Box Metal M2A1					418	64	6.58				227	33	6.91
SubTotal AMMO Hardware					18574						11383		
Production Support Costs													
Production Engineering											147		
Quality Assurance											329		
Interim Transportation					4								
Industrial Stock Support					260						16		
SubTotal Prod. Support					264						492		
Nonrecurring													
Materiel Change					321								
Sub Total					321								
Total					19159		0.37				11875		0.45

Exhibit P-5a, Budget Procurement History and Planning

Date:
February 2002

Appropriation/Budget Activity/Serial No: Procurement of Ammunition, Army / 1 / Ammunition		Weapon System Type:			P-1 Line Item Nomenclature: CTG 5.56MM, M855, 10 RD CLIP: M2A1 BOX, LEAD FREE (E95400)					
WBS Cost Elements:	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY Units	Unit Cost \$	Specs Avail Now?	Date Revsn Avail	RFP Issue Date
Load, Assemble, and Pack										
FY 2001	Alliant Tech (LCAAP) Independence, MO	SS/FP	OSC, Rock Island, IL	Sep 2001	Apr 2002	52144	0.35			
FY 2003	Alliant Tech (LCAAP) Independence, MO	SS/FP	OSC, Rock Island, IL	Mar 2003	Apr 2004	26862	0.42	Y		
Box Metal M2A1										
FY 2001	TBS	C/FP	OSC, Rock Island, IL	Dec 2001	Mar 2002	64	6.58			
FY 2003	TBS	C/FP	OSC, Rock Island, IL	Mar 2003	Feb 2004	33	6.91	Y		

REMARKS: TBS - To be Selected

Exhibit P-40, Budget Item Justification Sheet

Date: February 2002

Appropriation/Budget Activity/Serial No:
Procurement of Ammunition, Army /1/Ammunition

P-1 Item Nomenclature
CTG 5.56MM, M855, 10 RD CLIP: CM'L PK, LEAD FREE (E95700)

Program Elements for Code B Items:

Code:
A

Other Related Program Elements:

	Prior Years	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	To Complete	Total Prog
Proc Qty		3388	40000			37798	38629	33835	29308	29556		212514
Gross Cost		1.0	15.0			15.2	15.7	14.0	12.3	12.5		85.7
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)		1.0	15.0			15.2	15.7	14.0	12.3	12.5		85.7
Initial Spares												
Total Proc Cost		1.0	15.0			15.2	15.7	14.0	12.3	12.5		85.7
Flyaway U/C												
Wpn Sys Proc U/C												

Description:

The M855 ball has a steel conical insert in the ogive of the bullet which increases the helmet-penetration range substantially compared to the 5.56MM M193 ball round. This cartridge is identified by a green bullet tip and is intended for use against personnel and non-armored targets. This item is lead free or "Green" packed in a commercial type package. This item is used in the M16A2 rifle. This item is Code A, approved for service use.

Justification:

This is a training standard item used in both training and combat. FY 2003 procurement supports annual peacetime training and builds a depot level in accordance with the Army's procurement goals.

TYPE CLASSIFICATION DATE:

1982

ACQUISITION MANAGER:

OSC, Rock Island, Ill

Exhibit P-5, Weapon AMMO Cost Analysis		Appropriation/Budget Activity/Serial No. Procurement of Ammunition, Army / 1 / Ammunition			P-1 Line Item Nomenclature: CTG 5.56MM, M855, 10 RD CLIP: CML PK, LEAD FREE (E95700)			Weapon System Type:			Date: February 2002		
AMMO Cost Elements	ID CD	FY 00			FY 01			FY 02			FY 03		
		TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
		\$000	x1000	\$000	\$000	x1000	\$000	\$000	x1000	\$000	\$000	x1000	\$000
AMMUNITION HARDWARE													
Complete Round											15153	37798	0.40
SubTotal AMMO Hardware											15153		
Production Support Costs													
Production Engineering											56		
Quality Assurance											5		
Industrial Stock Support											21		
SubTotal Prod. Support											82		
Total											15235		0.41

Exhibit P-5a, Budget Procurement History and Planning

Date:
February 2002

Appropriation/Budget Activity/Serial No: Procurement of Ammunition, Army / 1 / Ammunition		Weapon System Type:			P-1 Line Item Nomenclature: CTG 5.56MM, M855, 10 RD CLIP: CM'L PK, LEAD FREE (E95700)					
WBS Cost Elements:	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY x1000	Unit Cost \$	Specs Avail Now?	Date Revsn Avail	RFP Issue Date
Complete Round FY 2003	Alliant Tech (LCAAP) Independence, MO	SS/FP	OSC, Rock Island, IL	Mar 2003	Apr 2004	37798	0.40	Y		

REMARKS:

Exhibit P-40, Budget Item Justification Sheet

Date:

February 2002

Appropriation/Budget Activity/Serial No:
Procurement of Ammunition, Army /1/Ammunition

P-1 Item Nomenclature
CTG, 5.56MM Ball, M855 (Commercial Pack) (E95901)

Program Elements for Code B Items:

Code:
A

Other Related Program Elements:

	Prior Years	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	To Complete	Total Prog
Proc Qty				65443								65443
Gross Cost				12.4								12.4
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)				12.4								12.4
Initial Spares												
Total Proc Cost				12.4								12.4
Flyaway U/C												
Wpn Sys Proc U/C												

Description:

The M855 ball has a conical insert in the ogive of the bullet which increases the helmet-penetration. This cartridge is identified by a green tip and this item is commercially packed. It is used in the M16A2 rifle and the M4A1 Carbine. This item is Code A, approved for service use.

Justification:

The intended use is static training/qualification. Procurement supports annual peacetime training and builds a depot level in accordance with the Army's procurement goals.

Type Classification Date: 1982

Acquisition Manager: OSC, Rock Island, IL

Exhibit P-5, Weapon AMMO Cost Analysis		Appropriation/Budget Activity/Serial No. Procurement of Ammunition, Army / 1 / Ammunition			P-1 Line Item Nomenclature: CTG, 5.56MM Ball, M855 (Commercial Pack) (E95901)			Weapon System Type:			Date: February 2002		
AMMO Cost Elements	ID CD	FY 00			FY 01			FY 02			FY 03		
		TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
		\$000	x1000	\$	\$000	x1000	\$	\$000	x1000	\$	\$000	x1000	\$
AMMUNITION HARDWARE													
Complete Round					11479	65443	0.18						
SubTotal AMMO Hardware					11479								
Production Engineering					83								
Quality Assurance					95								
Industrial Stock Support					166								
SubTotal Prod. Support					344								
COST - Nonrecurring													
Value Engineering					589								
SubTotal COST - Nonrecurring					589								
Total					12412		0.19						

Exhibit P-5a, Budget Procurement History and Planning

Date:
February 2002

Appropriation/Budget Activity/Serial No: Procurement of Ammunition, Army / 1 / Ammunition		Weapon System Type:			P-1 Line Item Nomenclature: CTG, 5.56MM Ball, M855 (Commercial Pack) (E95901)					
WBS Cost Elements:	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY x1000	Unit Cost \$	Specs Avail Now?	Date Revsn Avail	RFP Issue Date
Complete Round FY 2001	Alliant Tech (LCAAP) Independence, MO	SS/FP	OSC, Rock Island, IL	Mar 2001	Sep 2001	65443	0.18			

REMARKS:

Exhibit P-40, Budget Item Justification Sheet

Date: February 2002

Appropriation/Budget Activity/Serial No:
Procurement of Ammunition, Army /1/Ammunition

P-1 Item Nomenclature
CTG 5.56MM ARMOR PIERCING M995 (F47600)

Program Elements for Code B Items:

Code:

Other Related Program Elements:

	Prior Years	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	To Complete	Total Prog
Proc Qty	3974	1240	1262	3005	2605	2558	2489	2440	310	310		20193
Gross Cost	5.6	1.9	1.8	3.7	3.5	3.6	3.6	3.6	0.6	0.6		28.4
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	5.6	1.9	1.8	3.7	3.5	3.6	3.6	3.6	0.6	0.6		28.4
Initial Spares												
Total Proc Cost	5.6	1.9	1.8	3.7	3.5	3.6	3.6	3.6	0.6	0.6		28.4
Flyaway U/C												
Wpn Sys Proc U/C												

Description:

The M995 5.56mm Armor Piercing cartridge is designed for use in the M249 SAW Machine Gun, the M16A4 Rifle and the M4 Carbine. The cartridge consists of a projectile and a propelling charge contained in a brass cartridge case to which the projectile is secured. The projectile consists of a dense metal penetrator (tungsten carbide) which is enclosed by a standard gilding metal jacket. An aluminum cup sits at the rear of the projectile for the purpose of properly locating the penetrator within the projectile. The penetrator is similar to components used in other small caliber cartridges currently used by the US Army, but tungsten has better penetration capabilities than the other materials and is the design feature which enhances the armor piercing capability of the cartridge. The cartridge utilizes a conventional brass case and double base propellant. A standard rifle cartridge primer is used in the case to initiate the propelling charge. This item is code "A" approved SMCA.

Justification:

The FY 2003 procurements are intended for use against current and future light armored targets. The M995 5.56mm Armor Piercing cartridge offers the capability to defeat these targets at ranges 2 to 3 times that of currently available ammunition. Procurement builds war inventory in accordance with the Army's procurement goals.

Type Classification (TC) Date: February 1996.

Acquisition Manager: Office of Product Manager Small Arms.

Exhibit P-5, Weapon AMMO Cost Analysis		Appropriation/Budget Activity/Serial No. Procurement of Ammunition, Army / 1 / Ammunition			P-1 Line Item Nomenclature: CTG 5.56MM ARMOR PIERCING M995 (F47600)			Weapon System Type:			Date: February 2002		
AMMO Cost Elements	ID CD	FY 00			FY 01			FY 02			FY 03		
		TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
		\$000	x1000	\$000	\$000	x1000	\$000	\$000	x1000	\$000	\$000	x1000	\$000
AMMUNITION HARDWARE													
Load, Assemble, and Pack	A				1109	3005	0.37	983	2605	0.38	984	2558	0.39
M995 5.56MM Armor Piercing					2219	2412	0.92	2292	2091	1.10	2306	2053	1.12
SubTotal AMMO Hardware					3328			3275			3290		
Production Support Costs													
Production Engineering					237			196			212		
Quality Assurance					55			25			26		
Acceptance Testing					38			30			31		
SubTotal Prod. Support					330			251			269		
Total					3658		1.22	3526		1.35	3559		1.39

Exhibit P-5a, Budget Procurement History and Planning

Date:
February 2002

Appropriation/Budget Activity/Serial No:
Procurement of Ammunition, Army / 1 / Ammunition

Weapon System Type:

P-1 Line Item Nomenclature:
CTG 5.56MM ARMOR PIERCING M995 (F47600)

WBS Cost Elements:	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY x1000	Unit Cost \$	Specs Avail Now?	Date Revsn Avail	RFP Issue Date
Load, Assemble, and Pack										
FY 2000	Alliant Tech Sys (LCAAP) Independence,Mo	SS/FP	OSC	SEP 00	MAY 01	1262	0.36			
FY 2001	Alliant Tech Sys (LCAAP) Independence,Mo	SS/FP	OSC	JAN 02	OCT 02	1104	0.37	YES		
FY 2001	Alliant Tech Sys (LCAAP) Independence,Mo	SS/FP	OSC	APR 02	FEB 03	1901	0.37	YES		
FY 2002	Alliant Tech Sys (LCAAP) Independence,Mo	SS/FP	OSC	APR 02	FEB 03	2605	0.38	YES		
FY 2003	Alliant Tech Sys (LCAAP) Independence,Mo	SS/FP	OSC	APR 03	FEB 04	2558	0.39	YES		
M995 5.56MM Armor Piercing										
FY 2000	Nordic Ammunition Co (NAMMO) Sweden	SS/OPT	TACOM-ARDEC	APR 00	OCT 00	1013	1.06			
FY 2001	Nordic Ammunition Co (NAMMO) Sweden	SS/OPT	TACOM-ARDEC	MAR 01	OCT 01	886	0.87	YES		
FY 2001	Nordic Ammunition Co (NAMMO) Sweden	SS/FP	TACOM-ARDEC	MAR 02	OCT 02	1526	0.95	YES		
FY 2002	Nordic Ammunition Co (NAMMO) Sweden	SS/OPT	TACOM-ARDEC	MAR 02	OCT 02	2091	1.10	YES		
FY 2003	Nordic Ammunition Co (NAMMO) Sweden	SS/OPT	TACOM-ARDEC	MAR 03	OCT 03	2053	1.12	YES		

REMARKS:

Exhibit P-40, Budget Item Justification Sheet

Date:

February 2002

Appropriation/Budget Activity/Serial No:
Procurement of Ammunition, Army /1/Ammunition

P-1 Item Nomenclature
CTG, 7.62MM, ALL TYPES (E02000)

Program Elements for Code B Items:

Code:

Other Related Program Elements:

	Prior Years	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	To Complete	Total Prog
Proc Qty												
Gross Cost	1352.1	13.2	5.2	9.4	14.1	16.0	41.9	33.3	35.0	35.7		1555.9
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	1352.1	13.2	5.2	9.4	14.1	16.0	41.9	33.3	35.0	35.7		1555.9
Initial Spares												
Total Proc Cost	1352.1	13.2	5.2	9.4	14.1	16.0	41.9	33.3	35.0	35.7		1555.9
Flyaway U/C												
Wpn Sys Proc U/C												

Description:

This budget line includes 7.62MM ALL TYPES.

Non-Add Defense Emergency Response Funding (DERF) and Cost of War funding to allow full training of troops to meet standards is provided as follows:

FY 2002 \$2.0 million
 FY 2003 \$2.2 million
 FY 2004 \$2.2 million
 FY 2005 \$2.2 million
 FY 2006 \$2.2 million
 FY 2007 \$2.2 million

Exhibit P-5, Weapon AMMO Cost Analysis		Appropriation/Budget Activity/Serial No. Procurement of Ammunition, Army / 1 / Ammunition			P-1 Line Item Nomenclature: CTG, 7.62MM, ALL TYPES (E02000)			Weapon System Type:			Date: February 2002		
AMMO Cost Elements	ID CD	FY 00			FY 01			FY 02			FY 03		
		TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
		\$000	x1000	\$	\$000	x1000	\$	\$000	x1000	\$	\$000	x1000	\$
CTG 7.62MM BLANK M82 LINKED/M13					2512	6448	0.39	3567	13233	0.27	1279	5091	0.25
CTG 7.62MM BALL M80 LINKED/M13					3390	6315	0.54	3509	6861	0.51	3913	7635	0.51
CTG 7.62MM 4 BALL/1 TRACER F/MINIGUN					1670	3695	0.45	3029	6917	0.44	3073	7225	0.43
CTG 7.62MM 4 BALL/1 TRACER F/OHF					936	2361	0.40	1213	2849	0.43			
CTG 7.62MM SHORT RG TNG 4B/1T XM973					906	642	1.41				375	302	1.24
CTG 7.62MM M118 LONG RANGE								433	870	0.50	838	1490	0.56
CTG 7.62MM ARMOR PIERCING XM993								2395	1168	0.20	2414	1165	2.07
CTG 7.62MM 4 BALL/1 TRACER LINKED											4083	8468	0.48
----- DERF/Cost of War funding detailed on the P-40 is not included on this form.													
Total					9414			14146			15975		

Exhibit P-40, Budget Item Justification Sheet

Date:

February 2002

Appropriation/Budget Activity/Serial No:
Procurement of Ammunition, Army /1/Ammunition

P-1 Item Nomenclature
CTG, 9MM, ALL TYPES (EA3000)

Program Elements for Code B Items:

Code:
A

Other Related Program Elements:

	Prior Years	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	To Complete	Total Prog
Proc Qty												
Gross Cost	61.2	2.3	1.2	5.2	2.6	13.5	12.4	12.7	13.1	13.4		137.6
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	61.2	2.3	1.2	5.2	2.6	13.5	12.4	12.7	13.1	13.4		137.6
Initial Spares												
Total Proc Cost	61.2	2.3	1.2	5.2	2.6	13.5	12.4	12.7	13.1	13.4		137.6
Flyaway U/C												
Wpn Sys Proc U/C												

Description:

This budget line funds ammunition for the M9 Pistol for antipersonnel use only and consists of a brass case, a jacketed lead bullet, a two-piece boxer-type primer, and a double-base propellant. The cartridge 9mm, ball M882 conforms to all United States requirements and NATO standardization agreement (STANAG) 4090 for 9mm ammunition. This item is Code A, approved for service use.

Justification:

This is a training standard item used in both training and combat. FY 2003 procurement supports annual peacetime training and builds a war reserve inventory in accordance with the Army's procurement goals.

ACQUISITION MANAGER: OSC, Rock Island, IL

TYPE CLASSIFICATION DATE: 1985

Exhibit P-5, Weapon AMMO Cost Analysis		Appropriation/Budget Activity/Serial No. Procurement of Ammunition, Army / 1 / Ammunition			P-1 Line Item Nomenclature: CTG, 9MM, ALL TYPES (EA3000)			Weapon System Type:			Date: February 2002		
AMMO Cost Elements	ID CD	FY 00			FY 01			FY 02			FY 03		
		TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
		\$000	x1000	\$000	\$000	x1000	\$000	\$000	x1000	\$000	\$000	x1000	\$000
CTG 9MM BALL M882					5213	52009	0.10	2639	22521	0.12	13508	131074	0.11
Total					5213			2639			13508		

Exhibit P-40, Budget Item Justification Sheet

Date:

February 2002

Appropriation/Budget Activity/Serial No:
Procurement of Ammunition, Army /1/Ammunition

P-1 Item Nomenclature
CTG 9MM BALL M882 (E05210)

Program Elements for Code B Items:

Code:
A

Other Related Program Elements:

	Prior Years	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	To Complete	Total Prog
Proc Qty	185727	19741	9620	52009	22521	131074	118358	119008	119545	120362		897965
Gross Cost	26.1	2.3	1.2	5.2	2.6	13.5	12.4	12.7	13.1	13.4		102.5
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	26.1	2.3	1.2	5.2	2.6	13.5	12.4	12.7	13.1	13.4		102.5
Initial Spares												
Total Proc Cost	26.1	2.3	1.2	5.2	2.6	13.5	12.4	12.7	13.1	13.4		102.5
Flyaway U/C												
Wpn Sys Proc U/C		0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1		

Description:

This round consists of a brass case, a jacketed lead bullet, a two-piece boxer-type primer, and a double-base propellant. The cartridge 9MM, Ball M882 conforms to all United States requirements and NATO standardization agreement (STANAG) 4090 for 9MM ammunition. Its primary usage is with the M9 personal defense weapon (PDW) and is compatible with all NATO 9MM weapons. This item is Code A, approved for service use.

Justification:

This is a training standard item used in both training and combat. FY 2003 procurement supports annual peacetime training and builds a war reserve inventory in accordance with the Army's procurement goals.

TYPE CLASSIFICATION DATE:

1985

ACQUISITION MANAGER:

OSC, Rock Island, Ill

Exhibit P-5, Weapon AMMO Cost Analysis		Appropriation/Budget Activity/Serial No. Procurement of Ammunition, Army / 1 / Ammunition			P-1 Line Item Nomenclature: CTG 9MM BALL M882 (E05210)			Weapon System Type:			Date: February 2002		
AMMO Cost Elements	ID CD	FY 00			FY 01			FY 02			FY 03		
		TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
		\$000	x1000	\$000	\$000	x1000	\$000	\$000	x1000	\$000	\$000	x1000	\$000
AMMUNITION HARDWARE													
Load, Assemble, and Pack					4712	52009	0.09	2399	22521	0.11	12518	131074	0.10
Box Metal M2A1					292	46	6.31	151	23	6.58	924	134	6.91
SubTotal AMMO Hardware					5004			2550			13442		
Production Support Costs													
Production Engineering					60			64			44		
Quality Assurance								4			3		
Interim Transportation					3								
Industrial Stock Support					81			21			19		
SubTotal Prod. Support					144			89			66		
COST - Nonrecurring													
Value Engineering Change Proposal					65								
SubTotal					65								
Total					5213		0.10	2639		0.12	13508		0.11

Exhibit P-5a, Budget Procurement History and Planning

Date:
February 2002

Appropriation/Budget Activity/Serial No:
Procurement of Ammunition, Army / 1 / Ammunition

Weapon System Type:

P-1 Line Item Nomenclature:
CTG 9MM BALL M882 (E05210)

WBS Cost Elements:	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY x1000	Unit Cost \$	Specs Avail Now?	Date Revsn Avail	RFP Issue Date
Load, Assemble, and Pack										
FY 2001	Olin Corp East Alton, IL	C/FP	OSC, Rock Island, IL	Apr 2001	Jul2001	52009	0.09			
FY 2002	Olin Corp East Alton, IL	SS/FP	OSC, Rock Island, IL	Jan 2002	Jul 2002	22521	0.11	Y		
FY 2003	Olin Corp East Alton, IL	SS/FP	OSC, Rock Island, IL	Jan 2003	Jul 2003	131074	0.10	Y		
Box Metal M2A1										
FY 2001	Brockway Standard Homerville, GA	C/FP	OSC, Rock Island, IL	Jan 2001	May 2001	46	6.31			
FY 2002	TBS	C/FP	OSC, Rock Island, IL	Mar 2002	May 2002	23	6.58	Y		
FY 2003	TBS	C/FP	OSC, Rock Island, IL	Jan 2003	May 2003	134	6.91	Y		

REMARKS: TBS - To Be Selected

Exhibit P-40, Budget Item Justification Sheet

Date:

February 2002

Appropriation/Budget Activity/Serial No:
Procurement of Ammunition, Army /1/Ammunition

P-1 Item Nomenclature
CTG, .50 CAL, ALL TYPES (E08000)

Program Elements for Code B Items:

Code:

Other Related Program Elements:

	Prior Years	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	To Complete	Total Prog
Proc Qty												
Gross Cost	434.0	17.2	19.7	19.5	31.8	50.6	49.3	39.7	40.5	40.9		743.2
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	434.0	17.2	19.7	19.5	31.8	50.6	49.3	39.7	40.5	40.9		743.2
Initial Spares												
Total Proc Cost	434.0	17.2	19.7	19.5	31.8	50.6	49.3	39.7	40.5	40.9		743.2
Flyaway U/C												
Wpn Sys Proc U/C												

Description:

This budget line includes .50 CAL ALL TYPES

Non-add Cost of War funding to allow full training of troops to meet standards is provided as follows:

- FY 2003 \$4.0 million
- FY 2004 \$3.6 million
- FY 2005 \$3.6 million
- FY 2006 \$3.6 million
- FY 2007 \$3.6 million

Exhibit P-5, Weapon AMMO Cost Analysis		Appropriation/Budget Activity/Serial No. Procurement of Ammunition, Army / 1 / Ammunition			P-1 Line Item Nomenclature: CTG, .50 CAL, ALL TYPES (E08000)			Weapon System Type:			Date: February 2002		
AMMO Cost Elements	ID CD	FY 00			FY 01			FY 02			FY 03		
		TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
		\$000	x1000	\$000	\$000	x1000	\$000	\$000	x1000	\$000	\$000	x1000	\$000
CTG CAL .50 BALL M33 W/M9 LINK					5887	3356	1.75	5507	3244	1.70	16975	9922	1.71
CTG CAL .50 4 BALL/1 TRACER W/M9 LINK					4686	2383	1.97	16985	9591	1.77	20705	11613	1.78
CTG CAL .50 BLANK M1A1 LKD W/M9 LINK								2357	3453	0.68	2089	2961	0.71
CTG CAL .50 SLAPT M903 (M962 TRACER)					5956	595	0.10	3774	393	9.60	4069	464	8.08
CTG, CAL .50 API MK211 MOD O					2966	366	8.10	3189	402	7.93	6737	858	7.85
----- Cost of War funding detailed on the P-40 is not included on this form.													
Total					19495			31812			50575		

Exhibit P-40, Budget Item Justification Sheet

Date:

February 2002

Appropriation/Budget Activity/Serial No:
Procurement of Ammunition, Army /1/Ammunition

P-1 Item Nomenclature
CTG CAL .50 BALL M33 W/M9 LINK (E07100)

Program Elements for Code B Items:

Code:
A

Other Related Program Elements:

	Prior Years	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	To Complete	Total Prog
Proc Qty	34833	1774	1782	3356	3244	9922	9647	6565	6544	6289		83956
Gross Cost	45.2	3.6	3.4	5.9	5.5	17.0	16.9	11.8	12.0	11.8		133.1
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	45.2	3.6	3.4	5.9	5.5	17.0	16.9	11.8	12.0	11.8		133.1
Initial Spares												
Total Proc Cost	45.2	3.6	3.4	5.9	5.5	17.0	16.9	11.8	12.0	11.8		133.1
Flyaway U/C												
Wpn Sys Proc U/C												

Description:

The caliber .50 ball M33 is linked with the M9 links for use in Army training with caliber .50 machine guns, M2 and M3. These rounds are also used in function test firing of the M2 and M3 machine guns. This item is Code A, approved for service use.

Justification:

This is a training unique item not used in combat. FY 2003 procurement supports annual peacetime training and builds a depot level in accordance with the Army's procurement goals.

TYPE CLASSIFICATION DATE: 1951

ACQUISITION MANAGER: OSC, Rock Island, Ill

Non-Add Cost of War funding to allow full training of troops to standards is provided as follows:

FY 2003 1,437 thousand rounds/\$2.5 million
 FY 2004 1,371 thousand rounds/\$2.5 million
 FY 2005 1,367 thousand rounds/\$2.5 million
 FY 2006 1,337 thousand rounds/\$2.5 million
 FY 2007 1,307 thousand rounds/\$2.5 million

Exhibit P-5, Weapon AMMO Cost Analysis		Appropriation/Budget Activity/Serial No. Procurement of Ammunition, Army / 1 / Ammunition			P-1 Line Item Nomenclature: CTG CAL .50 BALL M33 W/M9 LINK (E07100)			Weapon System Type:			Date: February 2002		
AMMO Cost Elements	ID CD	FY 00			FY 01			FY 02			FY 03		
		TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
		\$000	x1000	\$	\$000	x1000	\$	\$000	x1000	\$	\$000	x1000	\$
AMMUNITION HARDWARE													
Load, Assemble, and Pack					5399	3356	1.61	5204	3244	1.60	16135	9922	1.63
Box Metal M2A1					222	34	6.47	218	33	6.58	700	101	6.91
SubTotal AMMO Hardware					5621			5422			16835		
Production Support Costs													
Production Engineering					167			37			111		
Quality Assurance					15			3			5		
Interim Transportation					2								
Industrial Stock Support					82			45			24		
SubTotal Prod. Support					266			85			140		
----- Cost of War funding detailed on the P-40 is not included on this form.													
Total					5887		1.75	5507		1.70	16975		1.72

Exhibit P-5a, Budget Procurement History and Planning

Date:
February 2002

Appropriation/Budget Activity/Serial No:
Procurement of Ammunition, Army / 1 / Ammunition

Weapon System Type:

P-1 Line Item Nomenclature:
CTG CAL .50 BALL M33 W/M9 LINK (E07100)

WBS Cost Elements:	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY x1000	Unit Cost \$	Specs Avail Now?	Date Revsn Avail	RFP Issue Date
Load, Assemble, and Pack										
FY 2001	Alliant Tech (LCAAP) Independence, MO	SS/FP	OSC, Rock Island, IL	Feb 2001	Feb 2002	3356	1.61			
FY 2002	Alliant Tech (LCAAP) Independence, MO	SS/FP	OSC, Rock Island, IL	Jan 2002	Oct 2002	3244	1.60	Y		
FY 2003	Alliant Tech (LCAAP) Independence, MO	SS/FP	OSC, Rock Island, IL	Jan 2003	Oct 2003	9922	1.63	Y		
Box Metal M2A1										
FY 2001	Brockway Standard Homerville, GA	C/FP	OSC, Rock Island, IL	Jan 2001	Jul 2001	34	6.47			
FY 2002	TBS	C/FP	OSC, Rock Island, IL	Mar 2002	Jul 2002	33	6.58	Y		
FY 2003	TBS	C/FP	OSC, Rock Island, IL	Jan 2003	Jul 2003	101	6.91	Y		

REMARKS: TBS - To Be Selected

Non-add Cost of War funding to allow full training of troops to meet standards is provided in FY 2003 as follows: \$2.466 million to buy a quantity of 1,437 thousand. Contract will be SS/FP with Alliant Tech (LCAAP), Independence, MO. The PCO is located at OSC, Rock Island, IL. Contract will be awarded with a planned procurement buy.

Exhibit P-40, Budget Item Justification Sheet

Date:

February 2002

Appropriation/Budget Activity/Serial No:
Procurement of Ammunition, Army /1/Ammunition

P-1 Item Nomenclature
CTG CAL .50 4 BALL/1 TRACER W/M9 LINK (E07200)

Program Elements for Code B Items:

Code:
A

Other Related Program Elements:

	Prior Years	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	To Complete	Total Prog
Proc Qty	393914	5748	8889	2383	9591	11613	12072	10289	10274	10253		475026
Gross Cost	296.9	13.6	16.3	4.7	17.0	20.7	21.6	19.0	19.4	19.8		449.1
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	296.9	13.6	16.3	4.7	17.0	20.7	21.6	19.0	19.4	19.8		449.1
Initial Spares												
Total Proc Cost	296.9	13.6	16.3	4.7	17.0	20.7	21.6	19.0	19.4	19.8		449.1
Flyaway U/C												
Wpn Sys Proc U/C												

Description:

This item consists of M33 ball and M17 tracer linked 4 to 1 with the M9 link. These cartridges in the linked configuration are for training use in either vehicle-mounted or ground-mounted machine guns. The tracer round permits observation of the bullet's trajectory to the point of impact. The ammunition is designed for use in the M2 or M3 machine guns. This item is Code A, approved for service use.

Justification:

This is a training unique item not used in combat. FY 2003 procurement supports annual peacetime training and builds a depot level in accordance with the Army's procurement goals.

TYPE CLASSIFICATION DATE: 1968

ACQUISITION MANAGER: OSC, Rock Island, Ill

Non-add Cost of War funding to allow full training of troops to meet standards is provided as follows:

FY 2003 617 thousand rounds/\$1.1 million
 FY 2004 608 thousand rounds/\$1.1 million
 FY 2005 589 thousand rounds/\$1.1 million
 FY 2006 576 thousand rounds/\$1.1 million
 FY 2007 563 thousand rounds/\$1.1 million

Exhibit P-5, Weapon AMMO Cost Analysis		Appropriation/Budget Activity/Serial No. Procurement of Ammunition, Army / 1 / Ammunition			P-1 Line Item Nomenclature: CTG CAL .50 4 BALL/1 TRACER W/M9 LINK (E07200)			Weapon System Type:			Date: February 2002		
AMMO Cost Elements	ID CD	FY 00			FY 01			FY 02			FY 03		
		TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
		\$000	x1000	\$	\$000	x1000	\$	\$000	x1000	\$	\$000	x1000	\$
AMMUNITION HARDWARE													
Load, Assemble, and Pack					4334	2383	1.82	16053	9591	1.67	19703	11613	1.70
Box Metal M2A1					157	24	6.47	644	98	6.58	819	118	6.91
SubTotal AMMO Hardware					4491			16697			20522		
Production Support Costs													
Production Engineering					79			144			149		
Quality Assurance					49			4			5		
Interim Transportation					2			1					
Industrial Stock Support					65			139			29		
SubTotal Prod. Support					195			288			183		
----- Cost of War funding detailed on the P-40 is not included on this form.													
Total					4686		1.97	16985		1.77	20705		1.79

Exhibit P-5a, Budget Procurement History and Planning

Date:
February 2002

Appropriation/Budget Activity/Serial No:
Procurement of Ammunition, Army / 1 / Ammunition

Weapon System Type:

P-1 Line Item Nomenclature:
CTG CAL .50 4 BALL/1 TRACER W/M9 LINK (E07200)

WBS Cost Elements:	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY x1000	Unit Cost \$	Specs Avail Now?	Date Revsn Avail	RFP Issue Date
Load, Assemble, and Pack										
FY 2001	Alliant Tech (LCAAP) Independence, MO	SS/FP	OSC, Rock Island, IL	Feb 2001	Mar 2002	2383	1.82			
FY 2002	Alliant Tech (LCAAP) Independence, MO	SS/FP	OSC, Rock Island, IL	Jan 2002	Oct 2002	9591	1.67	Y		
FY 2003	Alliant Tech (LCAAP) Independence, MO	SS/FP	OSC, Rock Island, IL	Jan 2003	Oct 2003	11613	1.70	Y		
Box Metal M2A1										
FY 2001	Brockway Standard Homerville, GA	C/FP	OSC, Rock Island, IL	Jan 2001	Jul 2001	24	6.47			
FY 2002	TBS	C/FP	OSC, Rock Island, IL	Mar 2002	Jul 2002	98	6.58	Y		
FY 2003	TBS	C/FP	OSC, Rock Island, IL	Jan 2003	Jul 2003	118	6.91	Y		

REMARKS: TBS - To Be Selected

Cost of War funding to allow full training of troops to meet standards is provided in FY 2003 as follows: \$1.096 million to buy a quantity of 617 thousand rounds. Contract will be SS/FP with Alliant Tech (LCAAP), Independence, MO. The PCO is located at OSC, Rock Island, IL. Contract will be awarded with a planned procurement buy.

Exhibit P-40, Budget Item Justification Sheet

Date:

February 2002

Appropriation/Budget Activity/Serial No:
Procurement of Ammunition, Army /1/Ammunition

P-1 Item Nomenclature
CTG CAL .50 API MK211 MOD 0 (F47400)

Program Elements for Code B Items:

Code:
A

Other Related Program Elements:

	Prior Years	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	To Complete	Total Prog
Proc Qty	842			366	402	858	758	481	481	483		4671
Gross Cost	5.9			3.0	3.2	6.7	6.8	4.9	5.0	5.2		40.8
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	5.9			3.0	3.2	6.7	6.8	4.9	5.0	5.2		40.8
Initial Spares												
Total Proc Cost	5.9			3.0	3.2	6.7	6.8	4.9	5.0	5.2		40.8
Flyaway U/C												
Wpn Sys Proc U/C												

Description:

This round is used in the M2 machine gun. The Grade B MK211 will be linked in a 4:1 ratio with the caliber .50 M20 Armor Piercing Incendiary Tracer Cartridge. The cartridge provides improved penetration performance against light armor vehicles and personnel. The projectile consists of a brass jacket surrounding a steel body and tungsten core with incendiary and high explosive charges. This item is Code A, approved for service use.

Justification:

This is a war reserve item, used in combat. FY 2003 procurement builds toward the war reserve requirement.

TYPE CLASSIFICATION DATE:

February 1996

ACQUISITION MANAGER:

OSC, Rock Island, Ill

Exhibit P-5, Weapon AMMO Cost Analysis		Appropriation/Budget Activity/Serial No. Procurement of Ammunition, Army / 1 / Ammunition			P-1 Line Item Nomenclature: CTG CAL .50 API MK211 MOD 0 (F47400)			Weapon System Type:			Date: February 2002		
AMMO Cost Elements	ID CD	FY 00			FY 01			FY 02			FY 03		
		TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
		\$000	x1000	\$000	\$000	x1000	\$000	\$000	x1000	\$000	\$000	x1000	\$000
AMMUNITION HARDWARE													
Load, Assemble, and Pack					2843	366	7.76	3086	402	7.68	6661	858	7.76
Box Metal M2A1					24	4	6.47	27	4	6.58	61	9	6.91
SubTotal AMMO Hardware					2867			3113			6722		
Production Support Costs													
Production Engineering					53			46					
Quality Assurance					4			4			6		
Interim Transportation													
Industrial Stock Support					42			26			9		
SubTotal Prod. Support					99			76			15		
Total					2966		8.10	3189		7.94	6737		7.86

Exhibit P-5a, Budget Procurement History and Planning

Date:
February 2002

Appropriation/Budget Activity/Serial No:
Procurement of Ammunition, Army / 1 / Ammunition

Weapon System Type:

P-1 Line Item Nomenclature:
CTG CAL .50 API MK211 MOD 0 (F47400)

WBS Cost Elements:	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY x1000	Unit Cost \$	Specs Avail Now?	Date Revsn Avail	RFP Issue Date
Load, Assemble, and Pack										
FY 2001	Alliant Tech (LCAAP) Independence, MO	SS/FP	OSC, Rock Island, IL	Sep 2001	Oct 2002	366	7.76			
FY 2002	Alliant Tech (LCAAP) Independence, MO	SS/FP	OSC, Rock Island, IL	Jan 2002	Oct 2002	402	7.68	Y		
FY 2003	Alliant Tech (LCAAP) Independence, MO	SS/FP	OSC, Rock Island, IL	Jan 2003	Oct 2003	858	7.76	Y		
Box Metal M2A1										
FY 2001	Brockway Standard Homerville, GA	C/FP	OSC, Rock Island, IL	Sep 2001	Sep 2002	4	6.47			
FY 2002	TBS	C/FP	OSC, Rock Island, IL	Mar 2002	Sep 2002	4	6.58	Y		
FY 2003	TBS	C/FP	OSC, Rock Island, IL	Jan 2003	Sep 2003	9	6.91	Y		

REMARKS: TBS - To Be Selected

Exhibit P-40, Budget Item Justification Sheet

Date:

February 2002

Appropriation/Budget Activity/Serial No:
Procurement of Ammunition, Army /1/Ammunition

P-1 Item Nomenclature
CTG CAL .50 SLAPT M903 (M962 TRACER) (F88000)

Program Elements for Code B Items:

Code:
A

Other Related Program Elements:

	Prior Years	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	To Complete	Total Prog
Proc Qty	1139			595	393	464	196	193	188	185		3353
Gross Cost	10.0			6.0	3.8	4.1	1.8	1.8	1.8	1.8		31.0
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	10.0			6.0	3.8	4.1	1.8	1.8	1.8	1.8		31.0
Initial Spares												
Total Proc Cost	10.0			6.0	3.8	4.1	1.8	1.8	1.8	1.8		31.0
Flyaway U/C												
Wpn Sys Proc U/C												

Description:

The Saboted Light Armor Penetrator (SLAP), M903 cartridge consists of a heavy metal penetrator which is sabot-launched at a much higher velocity than standard rounds, with Tracer, M962. The sabot, which is designed to break up at the muzzle to release the penetrator, must also survive the gun environment until launch. It is injection molded of special high strength plastic and is reinforced with an aluminum insert in the base section. The tungsten alloy penetrator has a slot in the base to insure full spin-up before separation from the sabot at the muzzle. The companion tracer cartridge, M962, consists of a tungsten alloy penetrator of the same mass as the M903 and is launched from a sabot of the same material and similar design. The penetrator base is cored out to accommodate a trace mix composition. This ammunition is linked four M903 SLAP to one M962 tracer for use in the M2 Heavy Barrel Machine Gun. The item is Code "A", approved for service use. This system supports the Legacy-to-Objective transition path of the Transformation Campaign Plan (TCP).

Justification:

FY 2003 procurement is intended for use against current and future light armored targets and Armored Attack Helicopters (AAHs). The M903 offers the capability to defeat these targets at ranges 2 to 3 times that of currently available ammunition.

TYPE CLASSIFIED (TC) DATE: March 1993.

ACQUISITION MANAGER: Product Manager, Small Arms

Non-Add Cost of War funding to allow full training of troops to meet standards is provided as follows:

FY 2003 54 thousand rounds/\$0.459 million
 FY 2004 53 thousand rounds/\$0.459 million
 FY 2005 52 thousand rounds/\$0.459 million
 FY 2006 51 thousand rounds/\$0.459 million
 FY 2007 50 thousand rounds/\$0.459 million

Exhibit P-5, Weapon AMMO Cost Analysis		Appropriation/Budget Activity/Serial No. Procurement of Ammunition, Army / 1 / Ammunition			P-1 Line Item Nomenclature: CTG CAL .50 SLAPT M903 (M962 TRACER) (F88000)			Weapon System Type:			Date: February 2002		
AMMO Cost Elements	ID CD	FY 00			FY 01			FY 02			FY 03		
		TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
		\$000	x1000	\$000	\$000	x1000	\$000	\$000	x1000	\$000	\$000	x1000	\$000
AMMUNITION HARDWARE													
Load, Assemble, and Pack	A				5268	595	8.85	3434	393	8.74	3747	464	8.08
M9 Links					126	728	0.17						
M2A1 Metal Box					42	6	7.00						
SubTotal AMMO Hardware					5436			3434			3747		
Production Support Costs													
Production Engineering					207			161			258		
Quality Assurance					32			32			21		
Acceptance Testing					24			24			43		
SubTotal Prod. Support					263			217			322		
COST - Nonrecurring													
First Article Testing					75								
Engineering Study					182			123					
SubTotal COST - Nonrecurring					257			123					
----- Cost of War funding detailed on the P-40 is not included on this form.													
Total					5956		9.99	3774		9.60	4069		8.77

Exhibit P-5a, Budget Procurement History and Planning

Date:
February 2002

Appropriation/Budget Activity/Serial No:
Procurement of Ammunition, Army / 1 / Ammunition

Weapon System Type:

P-1 Line Item Nomenclature:
CTG CAL .50 SLAPT M903 (M962 TRACER) (F88000)

WBS Cost Elements:	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY x1000	Unit Cost \$	Specs Avail Now?	Date Revsn Avail	RFP Issue Date
Load, Assemble, and Pack										
FY 2001	Olin East Alton, IL	SS/OPT	TACOM-ARDEC	SEP 01	AUG 02	595	8.85			
FY 2002	Olin East Alton, IL	SS/OPT	TACOM-ARDEC	SEP 02	JUL 03	393	8.74	YES		
FY 2003	Olin East Alton, IL	SS/OPT	TACOM-ARDEC	MAY 03	FEB 04	464	8.08	YES		
M9 Links										
FY 2001	ATK Independence, MO	SS/FP	TACOM-ARDEC	JAN 02	JUL 02	728	0.17			
M2A1 Metal Box										
FY 2001	Brockway STD Homerville, GA	SS/FP	OSC	JAN 02	JUL 02	6	7.00			

REMARKS: Non-add Cost of War funding to allow full training of troops to meet standards is provided in FY 2003 as follows: \$0.459 million to buy a quantity of 54 thousand rounds. Contract will be SS/OPT with Olin, East Alton, IL. The PCO is located at OSC, Rock Island, IL. Contract will be awarded with a planned procurement buy.

Exhibit P-40, Budget Item Justification Sheet

Date:

February 2002

Appropriation/Budget Activity/Serial No:
Procurement of Ammunition, Army /1/Ammunition

P-1 Item Nomenclature
CTG, 20MM, ALL TYPES (E08900)

Program Elements for Code B Items:

Code:

Other Related Program Elements:

	Prior Years	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	To Complete	Total Prog
Proc Qty												
Gross Cost	295.6		0.0	0.2	0.1							295.9
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	295.6		0.0	0.2	0.1							295.9
Initial Spares												
Total Proc Cost	295.6		0.0	0.2	0.1							295.9
Flyaway U/C												
Wpn Sys Proc U/C												

Description:

This budget line includes 20MM ALL TYPES. This ammunition is used to suppress or fire against light armored vehicles.

Exhibit P-5, Weapon AMMO Cost Analysis		Appropriation/Budget Activity/Serial No. Procurement of Ammunition, Army / 1 / Ammunition			P-1 Line Item Nomenclature: CTG, 20MM, ALL TYPES (E08900)			Weapon System Type:			Date: February 2002		
AMMO Cost Elements	ID CD	FY 00			FY 01			FY 02			FY 03		
		TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
		\$000	x1000	\$000	\$000	x1000	\$000	\$000	x1000	\$000	\$000	x1000	\$000
CTG 20MM LINKED TP M55A2/TPT					223	321	0.10	84					
Total					223			84					

Exhibit P-40, Budget Item Justification Sheet

Date:

February 2002

Appropriation/Budget Activity/Serial No:
Procurement of Ammunition, Army /1/Ammunition

P-1 Item Nomenclature
CTG, 25MM, ALL TYPES (E08200)

Program Elements for Code B Items:

Code:

Other Related Program Elements:

	Prior Years	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	To Complete	Total Prog
Proc Qty												
Gross Cost	1233.6	78.1	47.7	65.8	69.7	33.1	0.4		41.0	99.9		1669.4
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	1233.6	78.1	47.7	65.8	69.7	33.1	0.4		41.0	99.9		1669.4
Initial Spares												
Total Proc Cost	1233.6	78.1	47.7	65.8	69.7	33.1	0.4		41.0	99.9		1669.4
Flyaway U/C												
Wpn Sys Proc U/C												

Description:

This budget line includes 25MM ALL TYPES.

Exhibit P-5, Weapon AMMO Cost Analysis		Appropriation/Budget Activity/Serial No. Procurement of Ammunition, Army / 1 / Ammunition			P-1 Line Item Nomenclature: CTG, 25MM, ALL TYPES (E08200)			Weapon System Type:			Date: February 2002		
AMMO Cost Elements	ID CD	FY 00			FY 01			FY 02			FY 03		
		TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
		\$000	x1000	\$000	\$000	x1000	\$000	\$000	x1000	\$000	\$000	x1000	\$000
CTG 25MM TP-T M793					12241	723	0.17	15971	1155	13.83	16136	1158	13.93
CTG 25MM TPDS-T M910					16868	1016	0.17	23980	1519	15.79	16951	1037	16.36
CTG 25MM APFSDS-T M919					36736	357	102.90	29792	253	117.76			
Total					65845			69743			33087		

Exhibit P-40, Budget Item Justification Sheet

Date:

February 2002

Appropriation/Budget Activity/Serial No:
Procurement of Ammunition, Army /1/Ammunition

P-1 Item Nomenclature
CTG 25MM TP-T M793 (E08203)

Program Elements for Code B Items:

Code:
A

Other Related Program Elements:

	Prior Years	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	To Complete	Total Prog
Proc Qty	19902	1263	1317	723	1155	1158			399	819		26736
Gross Cost	282.8	17.1	16.5	12.2	16.0	16.1	0.4		6.1	12.3		379.6
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	282.8	17.1	16.5	12.2	16.0	16.1	0.4		6.1	12.3		379.6
Initial Spares												
Total Proc Cost	282.8	17.1	16.5	12.2	16.0	16.1	0.4		6.1	12.3		379.6
Flyaway U/C												
Wpn Sys Proc U/C												

Description:

The M793 cartridge is a percussion primed 25MM Target Practice-Traced (TP-T) cartridge with M28 link for use in the M242 gun which is mounted on the Bradley Fighting Vehicle System. The M793 training round is ballistically matched to the M792 High Explosive Incendiary-Tracer (HEI-T) ammunition. This round will be packaged/shipped in the M621 plastic container, 30 rounds per container. This item is Code A, approved for service use.

Justification:

This is a training unique item not used in combat. FY 2003 procurement supports annual peacetime training and builds a depot level in accordance with the Army's procurement goals.

TYPE CLASSIFICATION DATE: 1979

ACQUISITION MANAGER: OSC, Rock Island, Ill

Exhibit P-5, Weapon AMMO Cost Analysis		Appropriation/Budget Activity/Serial No. Procurement of Ammunition, Army / 1 / Ammunition			P-1 Line Item Nomenclature: CTG 25MM TP-T M793 (E08203)			Weapon System Type:			Date: February 2002		
AMMO Cost Elements	ID CD	FY 00			FY 01			FY 02			FY 03		
		TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
		\$000	x1000	\$	\$000	x1000	\$	\$000	x1000	\$	\$000	x1000	\$
AMMUNITION HARDWARE													
Load, Assemble, and Pack					8028	723	11.10	13391	1155	11.60	13424	1158	11.60
Container PA125					1044	24	43.23	1517	39	39.32	1589	39	41.11
Wood Pallet F/25MM											45	1	61.41
SubTotal AMMO Hardware					9072			14908			15058		
Production Support Costs													
Production Engineering					3022			910			1029		
Quality Assurance					9			27			28		
Interim Transportation					6			2					
Industrial Stock Support					132			124			21		
SubTotal Prod. Support					3169			1063			1078		
Total					12241		16.93	15971		13.83	16136		13.94

Exhibit P-5a, Budget Procurement History and Planning

Date:
February 2002

Appropriation/Budget Activity/Serial No:
Procurement of Ammunition, Army / 1 / Ammunition

Weapon System Type:

P-1 Line Item Nomenclature:
CTG 25MM TP-T M793 (E08203)

WBS Cost Elements:	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY x1000	Unit Cost \$	Specs Avail Now?	Date Revsn Avail	RFP Issue Date
Load, Assemble, and Pack										
FY 2001	Alliant Tech Sys, Inc New Brighton, MN	CM-3/FP	OSC, Rock Island, IL	Mar 2001	May 2002	340	11.10			
FY 2001	General Dynamics Ord & Tacs Marion, IL	CM-3/FP	OSC, Rock Island, IL	Mar 2001	Feb 2002	383	11.10			
FY 2002	TBS	CM-4/FP	OSC, Rock Island, IL	Mar 2002	Mar 2003	1155	11.60	Y		
FY 2003	TBS	CM-5/FP	OSC, Rock Island, IL	Mar 2003	Mar 2004	1158	11.60	Y		
Container PA125										
FY 2001	Conco Inc Louisville, KY	C/FP	OSC, Rock Island, IL	Apr 2001	Dec 2001	24	43.23			
FY 2002	TBS	C/FP	OSC, Rock Island, IL	Apr 2002	Dec 2002	39	39.32	Y		
FY 2003	TBS	C/FP	OSC, Rock Island, IL	Apr 2003	Dec 2003	39	41.11	Y		
Wood Pallet F/25MM										
FY 2003	TBS	C/FP	OSC, Rock Island, IL	Apr 2003	Dec 2003	1	61.41	Y		

REMARKS: TBS - To Be Selected

Exhibit P-40, Budget Item Justification Sheet

Date:

February 2002

Appropriation/Budget Activity/Serial No:
Procurement of Ammunition, Army /1/Ammunition

P-1 Item Nomenclature
CTG 25MM TPDS-T M910 (E08204)

Program Elements for Code B Items:

Code:
A

Other Related Program Elements:

	Prior Years	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	To Complete	Total Prog
Proc Qty	15717	2566		1016	1519	1037			531	510		22896
Gross Cost	276.7	39.3	0.6	16.9	24.0	17.0			8.8	8.7		391.9
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	276.7	39.3	0.6	16.9	24.0	17.0			8.8	8.7		391.9
Initial Spares												
Total Proc Cost	276.7	39.3	0.6	16.9	24.0	17.0			8.8	8.7		391.9
Flyaway U/C												
Wpn Sys Proc U/C												

Description:

The 25MM Armor Piercing (AP) training round is ballistically matched to the 25MM cartridge Armor Piercing Discarding Sabot-Tracer (APDS-T) M791 and the Armor Piercing Fin Stabilized Discarding Sabot, with Tracer M919. The M910 is used in gunnery training and qualification of the M2/M3 Bradley Fighting Vehicles in lieu of the M791 and the M919. This round supports live fire training on Bradley Fighting Vehicle at smaller facilities that cannot use the long range combat cartridges. This item is Code A, approved for service use.

Justification:

This is a training unique item not used in combat. FY 2003 procurement supports annual peacetime training and builds a depot level in accordance with the Army's procurement goals. The maximum range of the current APDS-T and the follow-on Armor Piercing Fin Stabilized Discarding Sabot-Tracer (APFSDS-T) cartridges precludes their use on most training ranges. Bradley Fighting Vehicle crews cannot obtain meaningful training without this round.

TYPE CLASSIFICATION DATE: 1988

ACQUISITION MANAGER: OSC, Rock Island, Ill

Exhibit P-5, Weapon AMMO Cost Analysis		Appropriation/Budget Activity/Serial No. Procurement of Ammunition, Army / 1 / Ammunition			P-1 Line Item Nomenclature: CTG 25MM TPDS-T M910 (E08204)			Weapon System Type:			Date: February 2002		
AMMO Cost Elements	ID CD	FY 00			FY 01			FY 02			FY 03		
		TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
		\$000	x1000	\$	\$000	x1000	\$	\$000	x1000	\$	\$000	x1000	\$
AMMUNITION HARDWARE													
Load, Assemble, and Pack					13633	1016	13.42	20739	1519	13.65	14153	1037	13.65
Container PA125					1467	34	43.23	1995	51	39.32	1423	35	41.11
Wood Pallet F/25MM											40	1	61.41
SubTotal AMMO Hardware					15100			22734			15616		
Production Support Costs													
Production Engineering					1526			715			1044		
Quality Assurance					11			42			40		
Acceptance Testing								297			229		
Interim Transportation					12			3					
Industrial Stock Support					219			189			22		
SubTotal Prod. Support					1768			1246			1335		
Total					16868		16.60	23980		15.79	16951		16.36

Exhibit P-5a, Budget Procurement History and Planning

Date:
February 2002

Appropriation/Budget Activity/Serial No:
Procurement of Ammunition, Army / 1 / Ammunition

Weapon System Type:

P-1 Line Item Nomenclature:
CTG 25MM TPDS-T M910 (E08204)

WBS Cost Elements:	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY x1000	Unit Cost \$	Specs Avail Now?	Date Revsn Avail	RFP Issue Date
Load, Assemble, and Pack										
FY 2001 P	Alliant Tech New Brighton, MN	CM-3/FP	OSC, Rock Island, IL	Mar 2001	Oct 2002	457	13.42			
FY 2001	General Dynamics Ord & Tac Marion, IL	CM-3/FP	OSC, Rock Island, IL	Mar 2001	May 2002	559	13.42			
FY 2002	TBS	CM-4/FP	OSC, Rock Island, IL	Mar 2002	Mar 2003	1519	13.65	Y		
FY 2003	TBS	CM-5/FP	OSC, Rock Island, IL	Mar 2003	Mar 2004	1037	13.65	Y		
Container PA125										
FY 2001	CONCO INC Louisville, KY	C/FP	OSC, Rock Island, IL	Apr 2001	Jan 2002	34	43.23			
FY 2002	TBS	C/FP	OSC, Rock Island, IL	Apr 2002	Jan 2003	51	39.32	Y		
FY 2003	TBS	C/FP	OSC, Rock Island, IL	Apr 2003	Jan 2004	35	41.11	Y		
Wood Pallet F/25MM										
FY 2003	TBS	C/FP	OSC, Rock Island, IL	Apr 2003	Jan2004	1	61.41	Y		

REMARKS: TBS - To Be Selected

Exhibit P-40, Budget Item Justification Sheet

Date:

February 2002

Appropriation/Budget Activity/Serial No:
Procurement of Ammunition, Army /1/Ammunition

P-1 Item Nomenclature
CTG 25MM APFSDS-T M919 (E08210)

Program Elements for Code B Items:

Code:
A

Other Related Program Elements:

	Prior Years	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	To Complete	Total Prog
Proc Qty	1065	160	253	357	253				130	630		2848
Gross Cost	167.5	20.6	30.7	36.7	29.8				26.0	79.0		390.4
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	167.5	20.6	30.7	36.7	29.8				26.0	79.0		390.4
Initial Spares												
Total Proc Cost	167.5	20.6	30.7	36.7	29.8				26.0	79.0		390.4
Flyaway U/C												
Wpn Sys Proc U/C												

Description:

The 25mm M919 is an Armor Piercing, Fin Stabilized, Discarding Sabot w/Tracer (APFSDS-T) cartridge, fired from the M242 Bushmaster automatic cannon mounted on the Army's M2/M3-series of Bradley Fighting Vehicles (BFVs). It uses state-of-the-art technology by incorporating high energy propellants, low drag design, an aluminum sabot, and improved depleted uranium penetrator material. This item is code A, approved for service use.

Justification:

The M919 replaces the M791 as the primary armor-piercing cartridge for use in the 25mm M242 Bushmaster. The M919 cartridge significantly increases the lethality of the BFVs against all threat infantry fighting vehicles. The M791 does not defeat the existing threat. The M919 state of the art armor defeat mechanism, combined with a high muzzle velocity, yields a very high kill probability for firing at stationary and moving threat targets. The M919 is the only 25mm "long-rod" penetrator produced for the M242 cannon. The M919 provides the soldier greater standoff, thus increasing battlefield survivability for the Bradley and accompanying infantry. The M919 provides the soldier with the lethality he needs to defeat the enemy, accomplish the BFVS mission, and to survive on today's modern battlefield.

Type Classification Date: September 1993.

Acquisition Manager: Project Manager, Tank and Medium-Caliber Armament Systems (PM-TMAS).

Exhibit P-5, Weapon AMMO Cost Analysis		Appropriation/Budget Activity/Serial No. Procurement of Ammunition, Army / 1 / Ammunition			P-1 Line Item Nomenclature: CTG 25MM APFSDS-T M919 (E08210)			Weapon System Type:			Date: February 2002		
AMMO Cost Elements	ID CD	FY 00			FY 01			FY 02			FY 03		
		TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
		\$000	x1000	\$	\$000	x1000	\$	\$000	x1000	\$	\$000	x1000	\$
AMMUNITION HARDWARE													
1. Complete Round					33584	357	1	24937	253	1			
2. Other Hardware					585			495					
3. Hazardous Waste Disposal					532			455					
SubTotal AMMO Hardware					34701			25887					
Production Support Costs													
Production Engineering					985			1580					
Quality Assurance					675			975					
Acceptance Testing					375			350					
SubTotal Prod. Support					2035			2905					
COST - Nonrecurring													
Engineering Change Proposals							1000						
SubTotal COST - Nonrecurring													
Total					36736			28792					

Exhibit P-5a, Budget Procurement History and Planning

Date:
February 2002

Appropriation/Budget Activity/Serial No:
Procurement of Ammunition, Army / 1 / Ammunition

Weapon System Type:

P-1 Line Item Nomenclature:
CTG 25MM APFSDS-T M919 (E08210)

WBS Cost Elements:	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY x1000	Unit Cost \$000	Specs Avail Now?	Date Revsn Avail	RFP Issue Date
1. Complete Round										
FY 2001	PRIMEX MARION, IL	SS/FP	ARDEC	Nov 00	Oct-01	357	1	Yes	No	
FY 2002	PRIMEX MARION, IL	SS/FP	ARDEC	Jan 02	Sep-02	253	1	Yes	No	

REMARKS:

Exhibit P-40, Budget Item Justification Sheet

Date: February 2002

Appropriation/Budget Activity/Serial No:
Procurement of Ammunition, Army /1/Ammunition

P-1 Item Nomenclature
CTG, 30MM, ALL TYPES (ER8120)

Program Elements for Code B Items:

Code:

Other Related Program Elements:

	Prior Years	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	To Complete	Total Prog
Proc Qty												
Gross Cost	255.1	10.5	6.5	14.4	9.7	9.8	7.3	11.0	11.1	11.2		346.8
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	255.1	10.5	6.5	14.4	9.7	9.8	7.3	11.0	11.1	11.2		346.8
Initial Spares												
Total Proc Cost	255.1	10.5	6.5	14.4	9.7	9.8	7.3	11.0	11.1	11.2		346.8
Flyaway U/C												
Wpn Sys Proc U/C												

Description:

This budget line includes 30MM ALL TYPES

Exhibit P-5, Weapon AMMO Cost Analysis		Appropriation/Budget Activity/Serial No. Procurement of Ammunition, Army / 1 / Ammunition			P-1 Line Item Nomenclature: CTG, 30MM, ALL TYPES (ER8120)			Weapon System Type:			Date: February 2002		
AMMO Cost Elements	ID CD	FY 00			FY 01			FY 02			FY 03		
		TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
		\$000	x1000	\$000	\$000	x1000	\$000	\$000	x1000	\$000	\$000	x1000	\$000
CTG 30MM TP M788					8790	662	13.27	9743	825	11.81	9795	814	12.03
CTG 30MM HEDP M789					5625	99	56.78						
Total					14415			9743			9795		

Exhibit P-40, Budget Item Justification Sheet

Date: February 2002

Appropriation/Budget Activity/Serial No: Procurement of Ammunition, Army /1/Ammunition	P-1 Item Nomenclature CTG 30MM HEDP M789 (E09900)
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Program Elements for Code B Items:	Code: A	Other Related Program Elements:
------------------------------------	------------	---------------------------------

	Prior Years	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	To Complete	Total Prog
Proc Qty	3750			99								3849
Gross Cost	154.0			5.6								159.6
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	154.0			5.6								159.6
Initial Spares												
Total Proc Cost	154.0			5.6								159.6
Flyaway U/C												
Wpn Sys Proc U/C												

Description:

The M789 projectile consists of a hollow steel body which contains an explosive charge and fluted copper liner. The projectile is mated to an M759 point detonating fuze and a lightweight aluminum cartridge case. The cartridge's "drive" chain consists of a PA520 electric primer, flash tube assembly, and propellant. The copper liner allows the M789 cartridge to penetrate and defeat light armor. Shrapnel from the steel projectile body provides an anti-personnel capability. This item is Code A, approved for service use.

Justification:

The M789 HEDP cartridge is the only tactical round qualified for use by U.S. Forces in the M230 chain gun. This cartridge is a "war reserve" item, though a small quantity of rounds are authorized for training use each year by the U.S. Army's 160th Special Operations Aviation Regiment (SOAR). The M230 gun is mounted on the Army's Apache Attack Helicopters and the 160th SOAR's Blackhawk Helicopters. Procurements will be used to build the war reserve stockpile.

TYPE CLASSIFICATION DATE:

1962

ACQUISITION MANAGER:

OSC, Rock Island, Ill

Exhibit P-5, Weapon AMMO Cost Analysis		Appropriation/Budget Activity/Serial No. Procurement of Ammunition, Army / 1 / Ammunition			P-1 Line Item Nomenclature: CTG 30MM HEDP M789 (E09900)			Weapon System Type:			Date: February 2002		
AMMO Cost Elements	ID CD	FY 00			FY 01			FY 02			FY 03		
		TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
		\$000	x1000	\$	\$000	x1000	\$	\$000	x1000	\$	\$000	x1000	\$
AMMUNITION HARDWARE													
Load, Assemble, and Pack					4678	99	47.19						
PBXN 5 Type II Class 3 (LB)					315	7	47.78						
*PBXN-5 Type I Class 3 (LB)					3		55.38						
*RDX Type II Class 7 (LB)							4.81						
SubTotal AMMO Hardware					4996								
Production Support Costs													
Production Engineering					545								
Quality Assurance					12								
Interim Transportation					3								
Industrial Stock Support					72								
SubTotal Prod. Support					632								
COST - Nonrecurring													
*Government Furnished Material					-3								
SubTotal COST - Nonrecurring													
Total					5625		56.74						

Exhibit P-5a, Budget Procurement History and Planning

Date:
February 2002

Appropriation/Budget Activity/Serial No: Procurement of Ammunition, Army / 1 / Ammunition		Weapon System Type:			P-1 Line Item Nomenclature: CTG 30MM HEDP M789 (E09900)					
WBS Cost Elements:	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY x1000	Unit Cost \$	Specs Avail Now?	Date Revsn Avail	RFP Issue Date
Load, Assemble, and Pack FY 2001	Alliant Techsystems New Brighton, MN	C/FP	OSC, Rock Island, IL	Aug 2001	Nov 2002	99	47.19			
PBXN 5 Type II Class 3 (LB) FY 2001	To Be Selected	C/FP	OSC, Rock Island, IL	Mar 2002	Oct 2002	7	47.78			
*PBXN-5 Type I Class 3 (LB) FY 2001	Stock Issue	N/A		N/A	N/A					
*RDX Type II Class 7 (LB) FY 2001	Stock Issue	N/A		N/A	N/A					

REMARKS: TBS - To Be Selected
*Government Furnished Material

Exhibit P-40, Budget Item Justification Sheet

Date:

February 2002

Appropriation/Budget Activity/Serial No:
Procurement of Ammunition, Army /1/Ammunition

P-1 Item Nomenclature
CTG 30MM TP M788 (E10100)

Program Elements for Code B Items:

Code:
A

Other Related Program Elements:

	Prior Years	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	To Complete	Total Prog
Proc Qty	8487	949	551	662	825	814	599	900	896	886		15569
Gross Cost	98.9	10.5	6.5	8.8	9.7	9.8	7.3	11.0	11.1	11.2		185.0
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	98.9	10.5	6.5	8.8	9.7	9.8	7.3	11.0	11.1	11.2		185.0
Initial Spares												
Total Proc Cost	98.9	10.5	6.5	8.8	9.7	9.8	7.3	11.0	11.1	11.2		185.0
Flyaway U/C												
Wpn Sys Proc U/C												

Description:

The 30MM Linked Target Practice (TP) M788 cartridge is an electric primed aluminum cased cartridge which is used in the 30MM M230 chain gun weapon system. The system is used as the secondary armament system on the Apache Advanced Attack Helicopter(AH-64). This item is Code A, approved for service use.

Justification:

This is a training unique item not used in combat. FY 2003 procurement supports annual peacetime training and builds a depot level in accordance with the Army's procurement goals.

TYPE CLASSIFICATION DATE:

1982

ACQUISITION MANAGER:

OSC, Rock Island, Ill

Exhibit P-5, Weapon AMMO Cost Analysis		Appropriation/Budget Activity/Serial No. Procurement of Ammunition, Army / 1 / Ammunition			P-1 Line Item Nomenclature: CTG 30MM TP M788 (E10100)			Weapon System Type:			Date: February 2002		
AMMO Cost Elements	ID CD	FY 00			FY 01			FY 02			FY 03		
		TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
		\$000	x1000	\$	\$000	x1000	\$	\$000	x1000	\$	\$000	x1000	\$
AMMUNITION HARDWARE													
Complete Round					7215	662	10.90	8986	825	10.90	8873	814	10.90
SubTotal AMMO Hardware					7215			8986			8873		
Production Support Costs													
Production Engineering					1459			661			898		
Quality Assurance					11			21			24		
Industrial Stock Support					105			75					
SubTotal Prod. Support					1575			757			922		
Total					8790		13.27	9743		11.81	9795		12.03

Exhibit P-5a, Budget Procurement History and Planning

Date:
February 2002

Appropriation/Budget Activity/Serial No:
Procurement of Ammunition, Army / 1 / Ammunition

Weapon System Type:

P-1 Line Item Nomenclature:
CTG 30MM TP M788 (E10100)

WBS Cost Elements:	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY x1000	Unit Cost \$	Specs Avail Now?	Date Revsn Avail	RFP Issue Date
Complete Round										
FY 2001	Alliant Tech Sys, Inc New Brighton, MN	CM3/FP	OSC, Rock Island, IL	Mar 2001	Feb 2002	662	10.90			
FY 2002	TBS	CM-4/FP	OSC, Rock Island, IL	Mar 2002	Feb 2003	825	10.90	Y		
FY 2003	TBS	CM-5/FP	OSC, Rock Island, IL	Mar 2003	Feb 2004	814	10.90	Y		

REMARKS: TBS - To Be Selected

Exhibit P-40, Budget Item Justification Sheet

Date:

February 2002

Appropriation/Budget Activity/Serial No:
Procurement of Ammunition, Army /1/Ammunition

P-1 Item Nomenclature
CTG, 40MM, ALL TYPES (ER8001)

Program Elements for Code B Items:

Code:

Other Related Program Elements:

	Prior Years	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	To Complete	Total Prog
Proc Qty												
Gross Cost	649.7	28.8	42.8	60.5	27.2	71.7	79.2	82.0	72.0	68.5		1182.4
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	649.7	28.8	42.8	60.5	27.2	71.7	79.2	82.0	72.0	68.5		1182.4
Initial Spares												
Total Proc Cost	649.7	28.8	42.8	60.5	27.2	71.7	79.2	82.0	72.0	68.5		1182.4
Flyaway U/C												
Wpn Sys Proc U/C												

Description:

This budget line includes 40MM ALL TYPES

Non-add Cost of War funding to all full training of troops to meet standards is provided as follows:

FY 2003 \$5.4 million
 FY 2004 \$5.4 million
 FY 2005 \$5.4 million
 FY 2006 \$5.4 million
 FY 2007 \$5.4 million

Exhibit P-5, Weapon AMMO Cost Analysis		Appropriation/Budget Activity/Serial No. Procurement of Ammunition, Army / 1 / Ammunition			P-1 Line Item Nomenclature: CTG, 40MM, ALL TYPES (ER8001)			Weapon System Type:			Date: February 2002		
AMMO Cost Elements	ID CD	FY 00			FY 01			FY 02			FY 03		
		TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
		\$000	x1000	\$	\$000	x1000	\$	\$000	x1000	\$	\$000	x1000	\$
CTG 40MM HEDP M430 F/MK19 MG					228						11044	464	23.78
CTG 40MM WHITE STAR PARA M583					30						1288	33	38.67
CTG 40MM PRACTICE M385A1					733	59	12.39	954	68	14.03	2832	231	12.28
CTG 40MM TP M918 LINKED F/MK 19MG					51988	3258	15.96	25997	1533	16.96	40480	2294	17.65
CTG 40MM PRACTICE M781					7526	1579	4.77	281			10511	2107	4.70
AMMO 40MM CANNISTER XM1001											5548	61	90.95

Cost of War funding detailed on the P-40 is not included on this form.													
Total					60505			27232			71703		

Exhibit P-40, Budget Item Justification Sheet

Date:

February 2002

Appropriation/Budget Activity/Serial No:
Procurement of Ammunition, Army /1/Ammunition

P-1 Item Nomenclature
CTG 40MM HEDP M430 F/MK19 MG (E11800)

Program Elements for Code B Items:

Code:
A

Other Related Program Elements:

	Prior Years	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	To Complete	Total Prog
Proc Qty	43788					464	886	978	355	164		46635
Gross Cost	299.8	0.5	1.1	0.2		11.0	21.3	23.6	9.0	4.3		370.9
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	299.8	0.5	1.1	0.2		11.0	21.3	23.6	9.0	4.3		370.9
Initial Spares												
Total Proc Cost	299.8	0.5	1.1	0.2		11.0	21.3	23.6	9.0	4.3		370.9
Flyaway U/C												
Wpn Sys Proc U/C												

Description:

The M430 cartridge is a high-explosive dual-purpose (HEDP) impact type round. This cartridge is fired from the MK 19 MOD 3 grenade machine gun mounted on the high-mobility multi-purpose vehicles. It is capable of penetrating two inches of steel armor plate at zero angle of obliquity and inflicting personnel casualties in the target area. This round replaces the M383 and M384 cartridges, which were strictly anti-personnel in nature. The M430 is a fixed round of ammunition consisting of an internally embossed one-piece projectile body that contains an explosive charge of composition A-5 with a copper cone-shaped liner, a rotation band, and a M549 point initiating base detonating fuze with spitback and is crimped to the cartridge case. This item is Code A, approved for service use.

Justification:

This is a training standard item used in both training and combat. FY 2003 procurement supports annual peacetime training and builds a war reserve inventory in accordance with the Army's procurement goals.

TYPE CLASSIFICATION DATE: 1971

ACQUISITION MANAGER: OSC, Rock Island, Ill

Non-add Cost of War funding to allow full training of troops to meet standards is provided as follows:

FY 2003 123 thousand rounds/\$2.5 million
 FY 2004 120 thousand rounds/\$2.5 million
 FY 2005 119 thousand rounds/\$2.5 million
 FY 2006 117 thousand rounds/\$2.5 million
 FY 2007 114 thousand rounds/\$2.5 million

Exhibit P-5, Weapon AMMO Cost Analysis		Appropriation/Budget Activity/Serial No. Procurement of Ammunition, Army / 1 / Ammunition			P-1 Line Item Nomenclature: CTG 40MM HEDP M430 F/MK19 MG (E11800)			Weapon System Type:			Date: February 2002		
AMMO Cost Elements	ID CD	FY 00			FY 01			FY 02			FY 03		
		TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
		\$000	x1000	\$	\$000	x1000	\$	\$000	x1000	\$	\$000	x1000	\$
AMMUNITION HARDWARE													
Load, Assemble, and Pack											3776	464	8.13
Body Assy MPTS											964	483	2.00
Liner Fluted Ext											392	480	0.82
*Comp A-5 Class 1 (LB)											245	44	5.55
*Lead Azide (SP) (LB)											3		23.16
M2 SP .019 F/40MM (LB)											132	7	17.77
*Comp CH-6 (LB)											7		19.69
FZ PIBD M549A1											4832	483	10.00
Det Stab M55											430	492	0.87
*RDX Type II Class 3 (LB)													10.21
SubTotal AMMO Hardware											10781		
Production Support Costs													
Production Engineering					228						491		
Quality Assurance											13		
Industrial Stock Support											15		
SubTotal Prod. Support					228						519		
COST - Nonrecurring													
*Government Furnished Material											-256		
SubTotal COST - Nonrecurring													
----- Cost of War funding detailed on the P-40 is not included on this form.													
Total					228						11044		23.78

Exhibit P-5a, Budget Procurement History and Planning

Date:
February 2002

Appropriation/Budget Activity/Serial No: Procurement of Ammunition, Army / 1 / Ammunition		Weapon System Type:			P-1 Line Item Nomenclature: CTG 40MM HEDP M430 F/MK19 MG (E11800)					
WBS Cost Elements:	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY x1000	Unit Cost \$	Specs Avail Now?	Date Revsn Avail	RFP Issue Date
Load, Assemble, and Pack FY 2003	American Ordnance (MAAP) Milan, TN	C/FP	OSC, Rock Island, IL	Dec 2002	Jul 2004	464	8.13	Y		
Body Assy MPTS FY 2003	TBS	C/FP	OSC, Rock Island, IL	Dec 2002	May 2004	483	2.00	Y		
Liner Fluted Ext FY 2003	TBS	C/FP	OSC, Rock Island, IL	Dec 2002	May 2004	480	0.82	Y		
*Comp A-5 Class 1 (LB) FY 2003	Stock Issue	N/A		N/A	N/A	44				
*Lead Azide (SP) (LB) FY 2003	Stock Issue	N/A		N/A	N/A					
M2 SP .019 F/40MM (LB) FY 2003	TBS	C/FP	OSC, Rock Island, IL	Dec 2002	May 2004	7	17.77	Y		
*Comp CH-6 (LB) FY 2003	Stock Issue	N/A		N/A	N/A					
FZ PIBD M549A1										

REMARKS: *Government Furnished Materiel
TBS - To Be Selected

Non-add Cost of War funding to allow full training of troops to meet standards is provided in FY 2003 as follows: \$2.466 million to buy a quantity of 123 thousand rounds. Contract will be C/FP with American Ordnance (MAAP), Milan, TN. The PCO is located at OSC, Rock Island, IL. Contract will be awarded with a planned procurement buy.

Exhibit P-5a, Budget Procurement History and Planning

Date:
February 2002

Appropriation/Budget Activity/Serial No: Procurement of Ammunition, Army / 1 / Ammunition		Weapon System Type:			P-1 Line Item Nomenclature: CTG 40MM HEDP M430 F/MK19 MG (E11800)					
WBS Cost Elements:	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY x1000	Unit Cost \$	Specs Avail Now?	Date Revsn Avail	RFP Issue Date
FY 2003 Det Stab M55	TBS	C/FP	OSC, Rock Island, IL	Dec 2002	May 2004	483	10.00	Y		
FY 2003 *RDX Type II Class 3 (LB)	TBS	C/FP	OSC, Rock Island, IL	Dec 2002	Mar 2004	492	0.87	Y		
FY 2003	Stock Issue	N/A		N/A	N/A					

REMARKS: *Government Furnished Materiel
TBS - To Be Selected

Non-add Cost of War funding to allow full training of troops to meet standards is provided in FY 2003 as follows: \$2.466 million to buy a quantity of 123 thousand rounds. Contract will be C/FP with American Ordnance (MAAP), Milan, TN. The PCO is located at OSC, Rock Island, IL. Contract will be awarded with a planned procurement buy.

Exhibit P-40, Budget Item Justification Sheet

Date:

February 2002

Appropriation/Budget Activity/Serial No:
Procurement of Ammunition, Army /1/Ammunition

P-1 Item Nomenclature
CTG 40MM TP M918 LINKED F/MK19 MG (E71100)

Program Elements for Code B Items:

Code:
A

Other Related Program Elements:

	Prior Years	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	To Complete	Total Prog
Proc Qty	12081	1444	2120	3258	1533	2294	2700	2695	2781	2773		33679
Gross Cost	182.8	21.1	37.1	52.0	26.0	40.5	48.3	49.2	51.9	52.9		561.8
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	182.8	21.1	37.1	52.0	26.0	40.5	48.3	49.2	51.9	52.9		561.8
Initial Spares												
Total Proc Cost	182.8	21.1	37.1	52.0	26.0	40.5	48.3	49.2	51.9	52.9		561.8
Flyaway U/C												
Wpn Sys Proc U/C												

Description:

The 40MM Target Practice (TP) cartridge for the MK19 machine gun is a high velocity training projectile with realistic signature effects providing sufficient flash, smoke, and sound upon impact to be seen/heard at a 1200 meter minimum range under standard atmospheric conditions and level terrain. In addition to providing audible/visual signature for day or night firing, the TP for MK19 gun will minimize hazards to troops in the training area. This item is Code A, approved for service use.

Justification:

This is a training unique item; not used in combat. FY 2003 procurement supports annual peacetime training and builds a depot level in accordance with the Army's procurement goals. This cartridge is required since firing the standard service 40MM high-explosive dual-purpose (HEDP) M430 cartridge is prohibited at many training ranges. The M918 allows frequent and safe MK 19 MOD 3 40MM Grenade Machine Gun and M129 Grenade launcher training.

TYPE CLASSIFICATION DATE: 1985

ACQUISITION MANAGER: OSC, Rock Island, Ill

Exhibit P-5, Weapon AMMO Cost Analysis		Appropriation/Budget Activity/Serial No. Procurement of Ammunition, Army / 1 / Ammunition			P-1 Line Item Nomenclature: CTG 40MM TP M918 LINKED F/MK19 MG (E71100)			Weapon System Type:			Date: February 2002		
AMMO Cost Elements	ID CD	FY 00			FY 01			FY 02			FY 03		
		TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
		\$000	x1000	\$	\$000	x1000	\$	\$000	x1000	\$	\$000	x1000	\$
AMMUNITION HARDWARE													
Load, Assemble, and Pack					18314	3258	5.62	10410	1533	6.79	15959	2294	6.96
Proj Assy					24721	3356	7.37	10661	1579	6.75	16814	2363	7.11
M2 SP .019 F/40MM (LB)											612	34	17.77
*M2 SP .019 F/40MM (LB)					785	49	16.07	387	23	16.81			
M550 Escape Assy					5361	3431	1.56	2906	1615	1.80	4081	2416	1.69
DET Stab M55					2440	3437	0.71	1250	1618	0.77	2115	2421	0.87
SubTotal AMMO Hardware					51621			25614			39581		
Production Support Costs													
Production Engineering					369			522			830		
Quality Assurance					12			12			14		
Interim Transportation					239			21					
Industrial Stock Support					532			215			55		
SubTotal Prod. Support					1152			770			899		
COST - Nonrecurring													
*Government Furnished Material					-785			-387					
SubTotal COST - Nonrecurring													
Total					51988		15.96	25997		16.95	40480		17.65

Exhibit P-5a, Budget Procurement History and Planning

Date:
February 2002

Appropriation/Budget Activity/Serial No: Procurement of Ammunition, Army / 1 / Ammunition		Weapon System Type:			P-1 Line Item Nomenclature: CTG 40MM TP M918 LINKED F/MK19 MG (E71100)					
WBS Cost Elements:	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY x1000	Unit Cost \$	Specs Avail Now?	Date Revsn Avail	RFP Issue Date
Load, Assemble, and Pack										
FY 2001	American Ordnance (MAAP) Milan, TN	C/FP	OSC, Rock Island, IL	Oct 2001	Jul 2002	3258	5.62			
FY 2002	American Ordnance (MAAP) Milan, TN	C/FP	OSC, Rock Island, IL	Sep 2002	May 2003	1533	6.79	Y		
FY 2003	TBS	C/FP	OSC, Rock Island, IL	Sep 2003	May 2004	2294	6.96	Y		
Proj Assy										
FY 2001 **		C/FP	OSC, Rock Island, IL	Jul 2001	Jan 2002	3356	7.37			
FY 2002 **	TBS	C/FP	OSC, Rock Island, IL	Sep 2002	Mar 2003	1579	6.75	Y		
FY 2003 **	TBS	C/FP	OSC, Rock Island, IL	Sep 2003	Mar 2004	2363	7.11	Y		
*M2 SP .019 F/40MM (LB)										
FY 2001	Stock Issue	N/A	N/A	N/A	N/A	49				
FY 2002	Stock Issue	N/A	N/A	N/A	N/A	23				
FY 2003	TBS	C/FP	OSC, Rock Island, IL	Sep 2003	Mar 2004	34	17.77	Y		
M550 Escape Assy										
FY 2001	AMTECH Corp Janesville, WI	C/FP	OSC, Rock Island, IL	Apr 2001	Sep 2001	1373	1.60	#		
FY 2001	Dayron Corp Orlando, FL	C/FP	OSC, Rock Island, IL	Apr 2001	Oct 2001	2059	1.56	#		

REMARKS: TBS - To Be Selected
*Government Furnished Material
** Pacing Component

Exhibit P-5a, Budget Procurement History and Planning

Date:
February 2002

Appropriation/Budget Activity/Serial No:
Procurement of Ammunition, Army / 1 / Ammunition

Weapon System Type:

P-1 Line Item Nomenclature:
CTG 40MM TP M918 LINKED F/MK19 MG (E71100)

WBS Cost Elements:	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY x1000	Unit Cost \$	Specs Avail Now?	Date Revsn Avail	RFP Issue Date
FY 2002	TBS	C/FP	OSC, Rock Island, IL	Sep 2002	Jan 2003	1615	1.80	Y		
FY 2003	TBS	C/FP	OSC, Rock Island, IL	Sep 2003	Jan 2004	2416	1.69	Y		
DET Stab M55										
FY 2001	Day & Zimmerman (LSAAP) Texarkana, TX	C/FP	OSC, Rock Island, IL	Jul 2001	Oct 2001	3437	0.71			
FY 2002	TBS	C/FP	OSC, Rock Island, IL	Mar 2002	Nov 2002	1618	0.77	Y		
FY 2003	TBS	C/FP	OSC, Rock Island, IL	Mar 2003	Nov 2003	2421	0.87	Y		

REMARKS: TBS - To Be Selected
*Government Furnished Material
** Pacing Component

Exhibit P-40, Budget Item Justification Sheet

Date:

February 2002

Appropriation/Budget Activity/Serial No:
Procurement of Ammunition, Army /1/Ammunition

P-1 Item Nomenclature
CTG 40MM PRACTICE M781 (E74200)

Program Elements for Code B Items:

Code:
A

Other Related Program Elements:

	Prior Years	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	To Complete	Total Prog
Proc Qty	15644	1605	1001	1579		2107	1432	1428	1419	1413		27628
Gross Cost	39.2	6.0	3.9	7.5	0.3	10.5	7.5	7.6	7.7	7.9		98.2
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	39.2	6.0	3.9	7.5	0.3	10.5	7.5	7.6	7.7	7.9		98.2
Initial Spares												
Total Proc Cost	39.2	6.0	3.9	7.5	0.3	10.5	7.5	7.6	7.7	7.9		98.2
Flyaway U/C												
Wpn Sys Proc U/C												

Description:

The M781 practice cartridge replaced the M407 practice cartridge. The M781 is a low cost, unfuzed fixed round of practice ammunition ready for use as issued and is compatible with the M79 and M203 Grenade Launchers. The cartridge case is made of plastic material and the projectile is also plastic with an aluminum rotating band. The ogive is made of a frangible plastic material and contains a colored dye in granular form, the consistency of talcum powder which is used to generate a signature. The propulsion system consists of a standard .38 caliber blank. This item is Code A, approved for service use.

Justification:

This is a training unique item; not used in combat. FY 2003 procurement supports annual peacetime training and builds a war reserve in accordance with the Army's procurement goals.

TYPE CLASSIFICATION DATE: 1978

ACQUISITION MANAGER: OSC, Rock Island, Ill

Exhibit P-5, Weapon AMMO Cost Analysis		Appropriation/Budget Activity/Serial No. Procurement of Ammunition, Army / 1 / Ammunition			P-1 Line Item Nomenclature: CTG 40MM PRACTICE M781 (E74200)			Weapon System Type:			Date: February 2002		
AMMO Cost Elements	ID CD	FY 00			FY 01			FY 02			FY 03		
		TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
		\$000	x1000	\$	\$000	x1000	\$	\$000	x1000	\$	\$000	x1000	\$
AMMUNITION HARDWARE													
Complete Round					7047	1579	4.46				9907	2107	4.70
SubTotal AMMO Hardware					7047						9907		
Production Support Costs													
Production Engineering					369			275			581		
Quality Assurance					8			6			9		
Industrial Stock Support					102						14		
SubTotal Prod. Support					479			281			604		
Total					7526		4.77	281			10511		4.99

Exhibit P-5a, Budget Procurement History and Planning

Date:
February 2002

Appropriation/Budget Activity/Serial No:
Procurement of Ammunition, Army / 1 / Ammunition

Weapon System Type:

P-1 Line Item Nomenclature:
CTG 40MM PRACTICE M781 (E74200)

WBS Cost Elements:	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY x1000	Unit Cost \$	Specs Avail Now?	Date Revsn Avail	RFP Issue Date
Complete Round										
FY 2001 #	Martin Elec Perry, FL	C/FP	OSC, Rock Island, IL	Jul 2001	Feb 2002	593	4.08			
FY 2001 #	AMTEC Corp Janesville, WI	C/FP	OSC, Rock Island, IL	Jul 2001	Apr 2002	493	4.58			
FY 2001 #	Mast Tech Las Vegas, NV	C/FP	OSC, Rock Island, IL	Jul 2001	Apr 2002	493	4.84			
FY 2003	To Be Selected	C/FP	OSC, Rock Island, IL	Jul 2003	Mar 2004	2107	4.70	Y		

REMARKS: TBS - To Be Selected
Actual Contract Price for Multiple Producers

Exhibit P-40, Budget Item Justification Sheet

Date: February 2002

Appropriation/Budget Activity/Serial No:
Procurement of Ammunition, Army /1/Ammunition

P-1 Item Nomenclature
AMMO 40MM CANNISTER XM1001 (F00900)

Program Elements for Code B Items:

Code:
A

Other Related Program Elements:

	Prior Years	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	To Complete	Total Prog
Proc Qty						61						61
Gross Cost						5.5						5.5
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)						5.5						5.5
Initial Spares												
Total Proc Cost						5.5						5.5
Flyaway U/C												
Wpn Sys Proc U/C												

Description:

The 40mm M1001 Canister round is fired from the MK19 Mod 3 Grenade Machine Gun (GMG). It has been designed to provide suppressive fire at ranges less than 100 meters. The projectile uses ball powder as an expulsion charge that expels 133 heat-treated steel flechettes to the target. This item is Code "A", approved for service use. This system supports the Legacy-to-Objective path of the Transformation Campaign Plan (TCP).

Justification:

The FY 2003 M1001 procurement will be used to provide effective anti-personnel capability at ranges less than 100m to counter the threat of ground forces that would disrupt rear area operation, destroy command and control facilities, operations, airfields, and special weapons and storage sites.

Type Classification Date: March 2001

Acquisition Manager: Office of Product Manager Small Arms

Exhibit P-5, Weapon AMMO Cost Analysis		Appropriation/Budget Activity/Serial No. Procurement of Ammunition, Army / 1 / Ammunition			P-1 Line Item Nomenclature: AMMO 40MM CANNISTER XM1001 (F00900)			Weapon System Type:			Date: February 2002		
AMMO Cost Elements	ID CD	FY 00			FY 01			FY 02			FY 03		
		TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
		\$000	x1000	\$000	\$000	x1000	\$000	\$000	x1000	\$000	\$000	x1000	\$000
AMMUNITION HARDWARE													
Complete Round	A										4810	61	78.85
SubTotal AMMO Hardware											4810		
Production Support Costs													
Production Engineering											333		
Quality Assurance											80		
Acceptance Testing											175		
SubTotal Prod. Support											588		
COST - Nonrecurring													
First Article Testing/IPT											150		
SubTotal COST - Nonrecurring											150		
Total											5548		90.96

Exhibit P-5a, Budget Procurement History and Planning

Date:
February 2002

Appropriation/Budget Activity/Serial No: Procurement of Ammunition, Army / 1 / Ammunition		Weapon System Type:			P-1 Line Item Nomenclature: AMMO 40MM CANNISTER XM1001 (F00900)					
WBS Cost Elements:	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY x1000	Unit Cost \$	Specs Avail Now?	Date Revsn Avail	RFP Issue Date
Complete Round FY 2003	GDOTS, Downey, CA	SS/FP	TACOM-ARDEC	MAR 03	FEB 04	61	78.85	YES		

REMARKS:

Exhibit P-40, Budget Item Justification Sheet

Date:

February 2002

Appropriation/Budget Activity/Serial No:
Procurement of Ammunition, Army /1/Ammunition

P-1 Item Nomenclature
60MM MORTAR, ALL TYPES (E89600)

Program Elements for Code B Items:

Code:

Other Related Program Elements:

	Prior Years	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	To Complete	Total Prog
Proc Qty												
Gross Cost	217.2	24.1	23.6	35.9	45.1	31.7	35.9	30.5	31.3	36.8		512.0
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	217.2	24.1	23.6	35.9	45.1	31.7	35.9	30.5	31.3	36.8		512.0
Initial Spares												
Total Proc Cost	217.2	24.1	23.6	35.9	45.1	31.7	35.9	30.5	31.3	36.8		512.0
Flyaway U/C												
Wpn Sys Proc U/C												

Description:

This line includes 60mm Mortar Ammunition, All Types. They are designed for use with the M224 lightweight company mortar system (LWCMS), in all light infantry battalions including Airborne, Air Assault, and Ranger. The LWCMS will also be issued to the Brigade Combat Teams.

Exhibit P-5, Weapon AMMO Cost Analysis		Appropriation/Budget Activity/Serial No. Procurement of Ammunition, Army / 1 / Ammunition			P-1 Line Item Nomenclature: 60MM MORTAR, ALL TYPES (E89600)			Weapon System Type:			Date: February 2002		
AMMO Cost Elements	ID CD	FY 00			FY 01			FY 02			FY 03		
		TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
		\$000	x1000	\$000	\$000	x1000	\$000	\$000	x1000	\$000	\$000	x1000	\$000
E67303 CTG MTR 60MM HE M720A1 W/MO Fuze					1955			18152	40	453	8041	16	503
E67304 CTG MTR 60MM HE W/PD FUZE M888					239								
E70400 CTG MTR 60MM ILLUM M721/M767					10694	19	553	7436	12	601			
E70500 CTG MTR 60MM SMOKE WP M722					471			249					
E92200 60MM MTR, FULL RANGE PRAC M769					5662	25	227	7483	49	154	8561	55	156
E92900 CTG,MTR,60MM HE W/PD FUZE,M768					16842	43	396	11754	36	331	15094	41	363
Total					35863			45074			31696		

Exhibit P-40, Budget Item Justification Sheet

Date:

February 2002

Appropriation/Budget Activity/Serial No:
Procurement of Ammunition, Army /1/Ammunition

P-1 Item Nomenclature
CTG MORTAR 60MM HE M720/M720A1 W/M734 FUZE (E67303)

Program Elements for Code B Items:

Code:
A

Other Related Program Elements:

	Prior Years	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	To Complete	Total Prog
Proc Qty	1093	41	2		40	16	24	14	14	14		1258
Gross Cost	114.2	18.4	4.9	2.0	18.2	8.0	12.0	7.3	7.4	12.6		205.1
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	114.2	18.4	4.9	2.0	18.2	8.0	12.0	7.3	7.4	12.6		205.1
Initial Spares												
Total Proc Cost	114.2	18.4	4.9	2.0	18.2	8.0	12.0	7.3	7.4	12.6		205.1
Flyaway U/C												
Wpn Sys Proc U/C												

Description:

The M720/M720A1 60mm High Explosive cartridge with Multi-Option Fuze is designed for use with the M224 lightweight company mortar system (LWCMS) in all light infantry battalions including Airborne, Air Assault and Ranger. The round is used against personnel and materiel providing both fragmentation and blast effect. It consists of a multi-option fuze, tail assembly, and projectile body with a TNT or composition B explosive fill. The M720A1, first produced in FY99, incorporates several new design features which will allow it to meet most of the insensitive munitions requirements. The composition B explosive has been replaced by a new insensitive main charge explosive called PAX-21. Additional changes have been made to the fuze adaptor, packaging and fuze explosive charge. Lethality is maintained by using a high fragmentation steel (HF-1) shell body. The M720A1 also incorporates the highly reliable and countermeasure resistant M734A1 Multi-option fuze. When the fuze is set in the proximity mode, it functions at a height over the target which is optimized for lethality. The M720 and M720A1 are code A; they have been approved for service use.

Justification:

The FY 2003 procurement builds war reserve inventory and supports training.

Type Classification date: M720 STD Jan 86; M720A1 STD Sep 01

ACQUISITION MANAGER: PM Mortars

Exhibit P-5, Weapon AMMO Cost Analysis		Appropriation/Budget Activity/Serial No. Procurement of Ammunition, Army / 1 / Ammunition			P-1 Line Item Nomenclature: CTG MORTAR 60MM HE M720/M720A1 W/M734 FUZE (E67303)			Weapon System Type:			Date: February 2002		
AMMO Cost Elements	ID CD	FY 00			FY 01			FY 02			FY 03		
		TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
		\$000	x1000	\$	\$000	x1000	\$	\$000	x1000	\$	\$000	x1000	\$
AMMUNITION HARDWARE													
Load, Assemble, and Pack								3519	40	88	1377	16	87
Shell Body - HF1								1895	42	46	778	17	47
Fuze, Multi-Option M734A1								9403	42	226	3823	17	231
Ignition Cartridge M702								725	42	18	298	17	18
Propelling Charge M235								1059	164	7	431	66	7
Fin Assembly M27								287	42	7	119	17	8
SubTotal AMMO Hardware								16888			6826		
Production Support Costs													
Production Engineering					897			643			668		
Quality Assurance					295			197			244		
Acceptance Testing								318			227		
Interim Transportation								106			76		
SubTotal Prod. Support					1192			1264			1215		
COST - Nonrecurring													
Initial Production Testing					763								
SubTotal COST - Nonrecurring					763								
Total					1955			18152		453	8041		503

Exhibit P-5a, Budget Procurement History and Planning

Date:
February 2002

Appropriation/Budget Activity/Serial No: Procurement of Ammunition, Army / 1 / Ammunition		Weapon System Type:			P-1 Line Item Nomenclature: CTG MORTAR 60MM HE M720/M720A1 W/M734 FUZE (E67303)					
WBS Cost Elements:	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY x1000	Unit Cost \$	Specs Avail Now?	Date Revsn Avail	RFP Issue Date
Load, Assemble, and Pack										
FY 2002	Day & Zimmerman Parsons, KS	OPT	TACOM	Feb 02	Mar 04	40	88	YES	N/A	
FY 2003	Day & Zimmerman Parsons, KS	OPT	TACOM	Feb 03	Nov 04	16	87	YES	N/A	
Shell Body - HF1										
FY 2002	Medico Industries Inc Scranton, PA	OPT	TACOM	Feb 02	Feb 03	42	46	YES	N/A	
FY 2003	Medico Industries Inc Scranton, PA	OPT	TACOM	Feb 03	Feb 04	17	47	YES	N/A	
Fuze, Multi-Option M734A1										
FY 2002	KDI Precision Products Inc Cincinnati, OH	OPT	TACOM	Feb 02	Feb 03	42	226	YES	N/A	
FY 2003	UNKNOWN	C/FP	TACOM	Apr 03	Jun 04	17	231	YES	N/A	
Ignition Cartridge M702										
FY 2002	Hitech Inc Woodbury, AR	OPT	TACOM	Feb 02	Feb 03	42	18	YES	N/A	
FY 2003	Hitech Inc Woodbury, AR	OPT	TACOM	Feb 03	Feb 04	17	18	YES	N/A	
Propelling Charge M235										
FY 2002	Valentec Systems Inc Mt. Arlington, NJ	OPT	TACOM	Feb 02	Mar 03	164	7	YES	N/A	
FY 2003	UNKNOWN	C/FP	TACOM	Apr 03	May 04	66	7	YES	N/A	

REMARKS: LAP for the M720A1, and M768 are combined on one contract. Shell bodies for the M720A1, M768 and M769 are combined on one contract. 60mm Mortar Common Components (M702 Ignition Cartridge, M235 Prop Charge and M27 fin) are procured on the same contract for all 60mm mortar rounds. The M734A1 fuze is common to the 60mm HE, 120mm HE and 120mm WP Smoke. Original Contracts; LAP FY00; M734A1 Fuze - C/FP FY98; M235 Prop Charge - C/FP FY98 ; M27 Fin Assembly - C/FP FY99; LAP - C/FP FY01; Shell bodies - C/FP FY01; Ignition CTG - C/FP FY01

Exhibit P-5a, Budget Procurement History and Planning

Date:
February 2002

Appropriation/Budget Activity/Serial No: Procurement of Ammunition, Army / 1 / Ammunition		Weapon System Type:			P-1 Line Item Nomenclature: CTG MORTAR 60MM HE M720/M720A1 W/M734 FUZE (E67303)					
WBS Cost Elements:	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY x1000	Unit Cost \$	Specs Avail Now?	Date Revsn Avail	RFP Issue Date
Fin Assembly M27										
FY 2002	Gayston Corp. Springboro, OH	OPT	TACOM	Feb 02	Jan 03	42	7	YES	N/A	
FY 2003	Gayston Corp. Springboro, OH	OPT	TACOM	Feb 03	Jan 04	17	8	YES	N/A	

REMARKS: LAP for the M720A1, and M768 are combined on one contract. Shell bodies for the M720A1, M768 and M769 are combined on one contract. 60mm Mortar Common Components (M702 Ignition Cartridge, M235 Prop Charge and M27 fin) are procured on the same contract for all 60mm mortar rounds. The M734A1 fuze is common to the 60mm HE, 120mm HE and 120mm WP Smoke. Original Contracts; LAP FY00; M734A1 Fuze - C/FP FY98; M235 Prop Charge - C/FP FY98 ; M27 Fin Assembly - C/FP FY99; LAP - C/FP FY01; Shell bodies - C/FP FY01; Ignition CTG - C/FP FY01

FY 04 / 05 BUDGET PRODUCTION SCHEDULE

P-1 Item Nomenclature:
CTG MORTAR 60MM HE M720/M720A1 W/M734 FUZE (E67303)

Date:
February 2002

COST ELEMENTS	MFR	FY	SERV	PROC QTY x1000	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												
							OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP		
Load, Assemble, and Pack																																
	1	FY 01 & P	A	42	0	42	5	10	10	10	7																		0			
	1	FY 02	A	40	0	40					10	10	10	10															0			
	1	FY 03	A	16	0	16												8	8										0			
	1	FY 01 & P	FMS	4	0	4					4																		0			
Fuze, Multi-Option M734A1																																
	3	FY 01 & P	A	45	45	0																							0			
	3	FY 02	A	42	42	0																							0			
	3	FY 03	A	17	1	16								8	8														0			
	3	FY 01 & P	FMS	4	4	0																							0			
Total				210	92	118	5	10	10	10	11	10	10	10	18	8					8	8										
							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		ADMINLEAD TIME		MFR	TOTAL		REMARKS																		
NAME/LOCATION	MIN.	1-8-5	MAX.	D+		1	INITIAL		Prior 1 Oct	After 1 Oct	After 1 Oct	After 1 Oct	Prior year production late due to delay in Type Classification of insensitive munition materiel change. Materiel change completed in September 2001. FY 2002/2003 production on schedule.																			
1 Day & Zimmerman, Parsons, KS	5.00	12.00	30.00	0		1	REORDER		6	7	28	35																				
3 KDI Precision Products Inc, Cincinnati, OH	5.00	15.00	40.00	0		3	INITIAL		3	5	25	30																				
							INITIAL		6	7	12	19																				
							REORDER		3	5	14	19																				
							INITIAL																									
							REORDER																									
							INITIAL																									
							REORDER																									
							INITIAL																									
							REORDER																									

Exhibit P-40, Budget Item Justification Sheet

Date:

February 2002

Appropriation/Budget Activity/Serial No:
Procurement of Ammunition, Army /1/Ammunition

P-1 Item Nomenclature
CTG MORTAR 60MM ILLUM M721/M767 (E70400)

Program Elements for Code B Items:

Code:
A

Other Related Program Elements:

	Prior Years	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	To Complete	Total Prog
Proc Qty	104			19	12							135
Gross Cost	50.4	0.7		10.7	7.4							69.2
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	50.4	0.7		10.7	7.4							69.2
Initial Spares												
Total Proc Cost	50.4	0.7		10.7	7.4							69.2
Flyaway U/C												
Wpn Sys Proc U/C												

Description:

The 60MM Mortar Illuminating Cartridges are designed for use with the M224 lightweight company mortar system (LWCMS) in all light infantry battalions including Airborne, Air Assault and Ranger. The M721 will provide visible light illuminating capability at the same effective range as the companion High Explosive (HE) Cartridges, M720/M720A1 (Range 3,200-3,800 Meters Maximum). The M767 provides infrared illumination which greatly enhances the effectiveness of night vision devices. The two rounds are identical except for the composition of the illuminant. The M721/M767 Illumination Cartridges are ballistically similar to the M720A1 HE Cartridge, allowing a gun to illuminate and fire on the same target without adjustments. Procurements include both visible light, M721, and infrared illuminant, M767. These items are Code A, approved for service use.

Justification:

Procurement meets the annual peacetime training requirements and builds a war reserve stockpile in support of fielded Mortar Weapons.

Type Classification date: Visible Light TC Standard SEP 87; infrared , TC Standard SEP 99

Acquisition Manager: PM MORTARS

Exhibit P-5, Weapon AMMO Cost Analysis		Appropriation/Budget Activity/Serial No. Procurement of Ammunition, Army / 1 / Ammunition			P-1 Line Item Nomenclature: CTG MORTAR 60MM ILLUM M721/M767 (E70400)			Weapon System Type:			Date: February 2002		
AMMO Cost Elements	ID CD	FY 00			FY 01			FY 02			FY 03		
		TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
		\$000	x1000	\$	\$000	x1000	\$	\$000	x1000	\$	\$000	x1000	\$
AMMUNITION HARDWARE													
Load, Assemble, and Pack M721/M767					2300	19	120	1510	12	126			
Visible Light Illumination Cannister					829	10	83	544	6	91			
Infrared Light Illumination Cannister					1028	10	103	675	6	113			
Body Tube & Tail Cone					632	20	32	424	13	33			
Parachute					342	20	18	225	13	18			
Fuze, MTSQ, M776					2763	20	138	1814	13	140			
Ignition Cartridge M702					349	20	18	225	13	18			
Propelling Charge M235					500	79	7	329	51	7			
Fin Assembly M27					134	20	7	89	13	7			
SubTotal AMMO Hardware					8877			5835					
Production Support Costs													
Production Engineering					1156			1160					
Quality Assurance					273			240					
Acceptance Testing					290			150					
Interim Transportation					98			51					
SubTotal Prod. Support					1817			1601					
Total					10694		553	7436		601			

Exhibit P-5a, Budget Procurement History and Planning

Date:
February 2002

Appropriation/Budget Activity/Serial No: Procurement of Ammunition, Army / 1 / Ammunition		Weapon System Type:			P-1 Line Item Nomenclature: CTG MORTAR 60MM ILLUM M721/M767 (E70400)					
WBS Cost Elements:	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY x1000	Unit Cost \$	Specs Avail Now?	Date Revsn Avail	RFP Issue Date
Load, Assemble, and Pack M721/M767										
FY 2001	Pine Bluff Arsenal Pine Bluff, AR	SS/CR	TACOM	Mar 01	Dec 02	19	120	YES	N/A	
FY 2002	Pine Bluff Arsenal Pine Bluff, AR	SS/CR	TACOM	Mar 02	Dec 03	12	126	YES	N/A	
Visible Light Illumination Cannister										
FY 2001	Crane Army Ammunition Activity Crane, IN	SS/CR	TACOM	Mar 01	Apr 02	10	83	YES	N/A	
FY 2002	Crane Army Ammunition Activity Crane, IN	SS/CR	TACOM	Mar 02	Apr 03	6	91	YES	N/A	
Infrared Light Illumination Cannister										
FY 2001	Crane Army Ammunition Activity Crane, IN	SS/CR	TACOM	Mar 01	Apr 02	10	103	YES	N/A	
FY 2002	Crane Army Ammunition Activity Crane, IN	SS/CR	TACOM	Mar 02	Apr 03	6	113	YES	N/A	
Body Tube & Tail Cone										
FY 2001	Lewis Engineering Marshall, TX	OPT	TACOM	Feb 01	Jan 02	20	32	YES	N/A	
FY 2002	Lewis Engineering Marshall, TX	OPT	TACOM	Feb 02	Jan 03	13	33	YES	N/A	
Parachute										
FY 2001	Paranetcis San Diego, CA	C/FP	TACOM	Oct 01	Nov 02	20	18	YES	N/A	
FY 2002	Paranetcis San Diego, CA	OPT	TACOM	Feb 02	Jan 03	13	18	YES	N/A	

REMARKS: Pine Bluff Arsenal is a government owned/government operated (GOGO) facility. The illuminant candle assembly is produced at Crane Army Ammunition Activity, Crane IN, another GOGO facility. Work is performed through work orders, not contracts. This is a cost reimbursable (CR) contract.
60mm Common Components (M720 Ignition Cartridge, M235 Prop Charge, M27 Fin) are procured on the same contract for all 60mm rounds.
Original Contracts; M776 Fuze - SS/FP FY99; M235 Prop Charge C/FP FY98; M702 Prop Charge C/FP FY00; M27 Fin Assembly M27 C/FP FY99
CR - Cost Reimbursable

Exhibit P-5a, Budget Procurement History and Planning

Date:
February 2002

Appropriation/Budget Activity/Serial No: Procurement of Ammunition, Army / 1 / Ammunition		Weapon System Type:			P-1 Line Item Nomenclature: CTG MORTAR 60MM ILLUM M721/M767 (E70400)					
WBS Cost Elements:	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY x1000	Unit Cost \$	Specs Avail Now?	Date Revsn Avail	RFP Issue Date
Fuze, MTSQ, M776										
FY 2001	Diehl GMBH Schramberg, GER	OPT	TACOM	Mar 01	Apr 02	20	138	YES	N/A	
FY 2002	Diehl GMBH Schramberg, GER	OPT	TACOM	Mar 02	Apr 03	13	140	YES	N/A	
Ignition Cartridge M702										
FY 2001	HiTech Inc Woodbury, AR	OPT	TACOM	May 01	Jul 02	20	18	YES	N/A	
FY 2002	HiTech Inc Woodbury, AR	OPT	TACOM	Feb 02	Apr 03	13	18	YES	N/A	
Propelling Charge M235										
FY 2001	Valentec Systems Inc. Mt. Arlington, NJ	OPT	TACOM	Feb 01	Mar 02	79	7	YES	N/A	
FY 2002	Valentec Systems Inc. Mt. Arlington, NJ	OPT	TACOM	Feb 02	Mar 03	51	7	YES	N/A	
Fin Assembly M27										
FY 2001	Gayston Corp. Springboro, OH	OPT	TACOM	Feb 01	Jan 02	20	7	YES	N/A	
FY 2002	Gayston Corp. Springboro, OH	OPT	TACOM	Feb 02	Jan 03	13	7	YES	N/A	

REMARKS: Pine Bluff Arsenal is a government owned/government operated (GOGO) facility. The illuminant candle assembly is produced at Crane Army Ammunition Activity, Crane IN, another GOGO facility. Work is performed through work orders, not contracts. This is a cost reimbursable (CR) contract. 60mm Common Components (M720 Ignition Cartridge, M235 Prop Charge, M27 Fin) are procured on the same contract for all 60mm rounds. Original Contracts; M776 Fuze - SS/FP FY99; M235 Prop Charge C/FP FY98; M702 Prop Charge C/FP FY00; M27 Fin Assembly M27 C/FP FY99 CR - Cost Reimbursable

Exhibit P-40, Budget Item Justification Sheet

Date:

February 2002

Appropriation/Budget Activity/Serial No:
Procurement of Ammunition, Army /1/Ammunition

P-1 Item Nomenclature
60MM MORTAR, FULL RANGE PRACTICE ROUND, M769 (E92200)

Program Elements for Code B Items:

Code:

Other Related Program Elements:

	Prior Years	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	To Complete	Total Prog
Proc Qty				25	49	55	65	58	59	60		371
Gross Cost				5.7	7.5	8.6	10.2	9.3	9.6	10.0		60.8
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)				5.7	7.5	8.6	10.2	9.3	9.6	10.0		60.8
Initial Spares												
Total Proc Cost				5.7	7.5	8.6	10.2	9.3	9.6	10.0		60.8
Flyaway U/C												
Wpn Sys Proc U/C												

Description:

The M769 60mm Full Range Practice Cartridge is designed for use with the M224 lightweight company mortar system (LWCMS) in all light infantry battalions including Airborne, Air Assault and Ranger. The M769 is a low-cost, full range, practice round that will replace a percentage of the standard High Explosive (HE) rounds used in 60mm mortar training. It consists of a M775 point detonating practice fuze which simulates the multi-option fuze and provides flash, bang and smoke; a steel body that approximates the shape of the 60mm HE service round; and a fin assembly, ignition cartridge and propelling charge that make up the propulsion system. This item is code A, approved for service use.

Justification:

This is a training-unique item; not used in combat. Use of the M769 will reduce training costs and environmental impacts. FY 2003 procurement supports annual peacetime training requirements and builds toward authorized depot level for training unique ammunition.

Type Classification date: TC Standard September 2001

Acquisition Manager: PM MORTARS

Exhibit P-5, Weapon AMMO Cost Analysis		Appropriation/Budget Activity/Serial No. Procurement of Ammunition, Army / 1 / Ammunition			P-1 Line Item Nomenclature: 60MM MORTAR, FULL RANGE PRACTICE ROUND, M769 (E92200)			Weapon System Type:			Date: February 2002		
AMMO Cost Elements	ID CD	FY 00			FY 01			FY 02			FY 03		
		TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
		\$000	x1000	\$	\$000	x1000	\$	\$000	x1000	\$	\$000	x1000	\$
AMMUNITION HARDWARE													
Load, Assemble, and Pack					605	25	25	1210	49	25	1385	55	26
Shell Body					795	26	31	1598	51	32	1839	57	33
Fuze, Practice, M775					347	26	14	737	51	15	878	57	16
Ignition Cartridge M702					452	26	18	886	51	18	1026	57	18
Propellant Charge M235					647	103	7	1296	201	7	1482	226	7
Fin Assembly M27					179	26	7	350	51	7	408	57	8
SubTotal AMMO Hardware					3025			6077			7018		
Production Support Costs													
Production Engineering					798			827			870		
Quality Assurance					71			110			135		
Acceptance Testing					193			352			396		
Interim Transportation					65			117			142		
SubTotal Prod. Support					1127			1406			1543		
COST - Nonrecurring													
Production Verification Testing					1030								
Calibration Lot					480								
SubTotal COST - Nonrecurring					1510								
Total					5662		226	7483		153	8561		156

Exhibit P-5a, Budget Procurement History and Planning

Date:
February 2002

Appropriation/Budget Activity/Serial No: Procurement of Ammunition, Army / 1 / Ammunition		Weapon System Type:			P-1 Line Item Nomenclature: 60MM MORTAR, FULL RANGE PRACTICE ROUND, M769 (E92200)					
WBS Cost Elements:	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY x1000	Unit Cost \$	Specs Avail Now?	Date Revsn Avail	RFP Issue Date
Load, Assemble, and Pack										
FY 2001	Pocal Industries Moscow, PA	C/FP	TACOM	Dec 01	Sep 03	5	24	YES		
FY 2001	Pocal Industries Moscow, PA	OPT	TACOM	Feb 02	Nov 03	20	25	YES		
FY 2002	Pocal Industries Moscow, PA	OPT	TACOM	Feb 02	Jan 04	49	25	YES		
FY 2003	Pocal Industries Moscow, PA	OPT	TACOM	Feb 03	Nov 04	55	26	YES		
Shell Body										
FY 2001	Medico Industries Scranton, PA	OPT	TACOM	Apr 01	Apr 02	5	31	YES		
FY 2001	Medico Industries Scranton, PA	OPT	TACOM	Feb 02	Feb 03	21	32	YES		
FY 2002	Medico Industries Scranton, PA	OPT	TACOM	Feb 02	Apr 03	51	32	YES		
FY 2003	Medico Industries Scranton, PA	OPT	TACOM	Feb 03	Feb 04	57	33	YES		
Fuze, Practice, M775										
FY 2001	Pocal Industries Moscow, PA	OPT	TACOM	Mar 02	Jan 03	5	18	YES		
FY 2001	Pocal Industries Moscow, PA	OPT	TACOM	Mar 02	Feb 03	21	18	YES		
FY 2002	Pocal Industries Moscow, PA	OPT	TACOM	Mar 02	Apr 03	51	15	YES		
FY 2003	Unknown	C/FP	TACOM	Apr 02	May 04	57	16	YES		

REMARKS: Shell bodies for the M720A1, M768 and M769 are combined on one contract.
60mm Common Components (M702 Ignition Cartridge, M235 Prop Charge and M27 Fin) are procured on the same contract for all 60mm rounds.
Original Contracts; Shell Body C/FP FY99; Practice Fuze C/FP FY99; M702 Ignition Cartridge C/FP FY00; M235 Prop Charge C/FP FY98 ; M27 Fin Assembly M27 C/FP FY99

Exhibit P-5a, Budget Procurement History and Planning

Date:
February 2002

Appropriation/Budget Activity/Serial No: Procurement of Ammunition, Army / 1 / Ammunition		Weapon System Type:			P-1 Line Item Nomenclature: 60MM MORTAR, FULL RANGE PRACTICE ROUND, M769 (E92200)					
WBS Cost Elements:	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY x1000	Unit Cost \$	Specs Avail Now?	Date Revsn Avail	RFP Issue Date
Ignition Cartridge M702										
FY 2001	HiTech Inc. Woodbury, AR	OPT	TACOM	Feb 01	Apr 02	5	18	YES		
FY 2001	HiTech Inc. Woodbury, AR	OPT	TACOM	Feb 02	Apr 03	21	18	YES		
FY 2002	HiTech Inc. Woodbury, AR	OPT	TACOM	Feb 02	Jun 03	51	18	YES		
FY 2003	HiTech Inc. Woodbury, AR	OPT	TACOM	Feb 03	Apr 04	57	18	YES		
Propellant Charge M235										
FY 2001	Valentec Systems Inc. Mt. Arlington, NJ	OPT	TACOM	Feb 01	Mar 02	20	7	YES		
FY 2001	Valentec Systems Inc. Mt. Arlington, NJ	OPT	TACOM	Feb 02	Mar 03	80	7			
FY 2002	Valentec Systems Inc. Mt. Arlington, NJ	OPT	TACOM	Feb 02	May03	201	7	YES		
FY 2003	Unknown	C/FP	TACOM	Apr 03	Mar 04	226	7	YES		
Fin Assembly M27										
FY 2001	Gayston Corp. Springboro, OH	OPT	TACOM	Feb 01	Jan 02	5	7	YES		
FY 2001	Gayston Corp. Springboro, OH	OPT	TACOM	Feb 02	Jan 03	21	7	YES		
FY 2002	Gayston Corp. Springboro, OH	OPT	TACOM	Feb 02	Mar 03	51	7	YES		
FY 2003	Gayston Corp. Springboro, OH	OPT	TACOM	Feb 03	Jan 04	57	8	YES		

REMARKS: Shell bodies for the M720A1, M768 and M769 are combined on one contract.
60mm Common Components (M702 Ignition Cartridge, M235 Prop Charge and M27 Fin) are procured on the same contract for all 60mm rounds.
Original Contracts; Shell Body C/FP FY99; Practice Fuze C/FP FY99; M702 Ignition Cartridge C/FP FY00; M235 Prop Charge C/FP FY98 ; M27 Fin Assembly M27 C/FP FY99

FY 03 / 04 BUDGET PRODUCTION SCHEDULE

P-1 Item Nomenclature:
60MM MORTAR, FULL RANGE PRACTICE ROUND, M769 (E92200)

Date:
February 2002

COST ELEMENTS	MFR	FY	SERV	PROC QTY x1000	ACCEP PRIOR TO 1 OCT	BAL DUE AS OF 1 OCT	Fiscal Year 03												Fiscal Year 04												L A T E R
							Calendar Year 03												Calendar Year 04												
							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	
Load, Assemble, and Pack																															
	1	FY 01	A	5	5	0																			0						
	1	FY 01	A	20	0	20		6	10		4														0						
	1	FY 02	A	49	0	49				11	15	15	8												0						
	1	FY 03	A	55	0	55										10	15	15	15						0						
Total				129	5	124		6	10	15	15	15	8			10	15	15	15												

MFR	NAME/LOCATION	PRODUCTION RATES			REACHED D+	MFR Number	ADMINLEAD TIME		MFR After 1 Oct	TOTAL After 1 Oct	REMARKS	
		MIN.	1-8-5	MAX.			Prior 1 Oct	After 1 Oct				
1	Pocal Industries, Moscow, PA	5.00	15.00	40.00	0	1	INITIAL	6	6	21	27	
							REORDER	3	5	21	26	
							INITIAL					
							REORDER					
							INITIAL					
							REORDER					
							INITIAL					
							REORDER					

Exhibit P-40, Budget Item Justification Sheet

Date:

February 2002

Appropriation/Budget Activity/Serial No:
Procurement of Ammunition, Army /1/Ammunition

P-1 Item Nomenclature
CTG,MORTAR,60MM HE W/PD FUZE, M768 (E92900)

Program Elements for Code B Items:

Code:
A

Other Related Program Elements:

	Prior Years	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	To Complete	Total Prog
Proc Qty				43	36	41	36	36	36	35		263
Gross Cost		1.0	0.3	16.8	11.8	15.1	13.6	13.9	14.2	14.1		100.9
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)		1.0	0.3	16.8	11.8	15.1	13.6	13.9	14.2	14.1		100.9
Initial Spares												
Total Proc Cost		1.0	0.3	16.8	11.8	15.1	13.6	13.9	14.2	14.1		100.9
Flyaway U/C												
Wpn Sys Proc U/C												

Description:

The 60MM Mortar High Explosive/Point Detonating (HE/PD) cartridges are designed for use with the M224 lightweight company mortar system (LWCMS) in all light infantry battalions including Airborne, Air Assault and Ranger. It will use the new M783 dual safety, point detonating/delay fuze. It will also use PAX-21 insensitive explosive fill, and a new fuze adapter and packaging which will enable the round to meet most insensitive munition requirements. Lethality is maintained by using a high fragmentation steel (HF-1) shell body. The tail assembly and propulsion system will be common to all other 60mm rounds. This round will be used primarily in training because it is significantly less expensive than the M720A1, the preferred warfighting round. However, the M768 will be lethal and can be used in combat. This item is code A; approved for service use.

Justification:

FY 2003 procurement supports annual training requirements and establishes an initial training stockpile.

TYPE CLASSIFICATION DATE: Sep 2001

ACQUISITION MANAGER: PM Mortars

Exhibit P-5, Weapon AMMO Cost Analysis		Appropriation/Budget Activity/Serial No. Procurement of Ammunition, Army / 1 / Ammunition			P-1 Line Item Nomenclature: CTG,MORTAR,60MM HE W/PD FUZE, M768 (E92900)			Weapon System Type:			Date: February 2002		
AMMO Cost Elements	ID CD	FY 00			FY 01			FY 02			FY 03		
		TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
		\$000	x1000	\$000	\$000	x1000	\$000	\$000	x1000	\$000	\$000	x1000	\$000
AMMUNITION HARDWARE													
Load, Assemble, and Pack					3863	43	91	2762	36	78	3328	41	81
Shell Body HF1					1951	44	45	1679	37	46	2021	43	47
Fuze, Point Detonating, M783					4332	44	98	4413	37	120	5779	43	134
Ignition Cartridge M702					768	44	18	642	37	18	774	43	18
Propellant Charge M235					1113	176	7	939	146	7	1118	170	7
Fin Assembly M27					296	44	7	254	37	7	308	43	8
SubTotal AMMO Hardware					12323			10689			13328		
Production Support Costs													
Production Engineering					952			655			893		
Quality Assurance					200			150			250		
Acceptance Testing					353			200			467		
Interim Transportation					118			60			156		
SubTotal Prod. Support					1623			1065			1766		
COST - Nonrecurring													
Initial Production Testing					1449								
Calibration Lot					1447								
SubTotal COST - Nonrecurring					2896								
Total					16842		396	11754		331	15094		363

Exhibit P-5a, Budget Procurement History and Planning

Date:
February 2002

Appropriation/Budget Activity/Serial No: Procurement of Ammunition, Army / 1 / Ammunition		Weapon System Type:			P-1 Line Item Nomenclature: CTG,MORTAR,60MM HE W/PD FUZE, M768 (E92900)					
WBS Cost Elements:	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY x1000	Unit Cost \$	Specs Avail Now?	Date Revsn Avail	RFP Issue Date
Load, Assemble, and Pack										
FY 2001	Day & Zimmerman Parsons, KS	C/FP	TACOM	Dec 01	Sep 03	43	91	YES		
FY 2002	Day & Zimmerman Parsons, KS	OPT	TACOM	Feb02	Jan 04	36	78	YES		
FY 2003	Day & Zimmerman Parsons, KS	OPT	TACOM	Feb 03	Nov 04	41	81	YES		
Shell Body HF1										
FY 2001	Medico Industries Inc Scranton, PA	OPT	TACOM	Mar 01	Apr 02	44	45	YES		
FY 2002	Medico Industries Inc Scranton, PA	OPT	TACOM	Feb 02	Apr 03	37	46	YES		
FY 2003	Medico Industries Inc Scranton, PA	OPT	TACOM	Feb 03	Apr 04	43	47	YES		
Fuze, Point Detonating, M783										
FY 2001	KDI Precision Products Inc Cincinnati, OH	SS/FP	TACOM	Oct 01	Nov 02	44	98	YES		
FY 2002	KDI Precision Products Inc Cincinnati, OH	OPT	TACOM	Feb 02	Apr 03	37	120	YES		
FY 2003	UNKNOWN	C/FP	TACOM	Apr 03	Jun 04	43	134	YES		
Ignition Cartridge M702										
FY 2001	HiTech Inc. Woodbury, AR	OPT	TACOM	Feb 01	Apr 02	44	18	YES		
FY 2002	HiTech Inc. Woodbury, AR	OPT	TACOM	Feb 02	Apr 03	37	18	YES		

REMARKS: LAP for the M720A1, and M768 are be combined on one contract. Shell bodies for the M720A1, XM768 and XM769 are combined on one contract. 60mm Common Components (M702 Ignition Cartridge, M235 Prop Charge and M27 Fin) are procured on the same contract for all 60mm rounds. Original Contracts; Shell Bodies - C/FP FY99;M702 Ignition Cartridge C/FP FY00; M235 Prop Charge C/FP FY98 ; M27 Fin Assembly M27 C/FP FY99

Exhibit P-5a, Budget Procurement History and Planning

Date:
February 2002

Appropriation/Budget Activity/Serial No: Procurement of Ammunition, Army / 1 / Ammunition		Weapon System Type:			P-1 Line Item Nomenclature: CTG,MORTAR,60MM HE W/PD FUZE, M768 (E92900)					
WBS Cost Elements:	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY x1000	Unit Cost \$	Specs Avail Now?	Date Revsn Avail	RFP Issue Date
FY 2003 Propellant Charge M235	HiTech Inc. Woodbury, AR	OPT	TACOM	Feb 03	Apr 04	43	18	YES		
FY 2001	Valentec Systems Inc. Mt. Arlington, NJ	OPT	TACOM	Feb 01	Mar 02	176	7	YES		
FY 2002	Valentec Systems Inc. Mt. Arlington, NJ	OPT	TACOM	Feb 02	Mar 03	146	7	YES		
FY 2003 Fin Assembly M27	UNKNOWN	C/FP	TACOM	Apr 03	MAY 04	170	7	YES		
FY 2001	Gayston Corp. Springboro, OH	OPT	TACOM	Feb 01	Jan 02	44	7	YES		
FY 2002	Gayston Corp. Springboro, OH	OPT	TACOM	Feb 02	Jan 03	37	7	YES		
FY 2003	Gayston Corp. Springboro, OH	OPT	TACOM	Feb 03	Jan 04	43	8	YES		

REMARKS: LAP for the M720A1, and M768 are be combined on one contract. Shell bodies for the M720A1, XM768 and XM769 are combined on one contract. 60mm Common Components (M702 Ignition Cartridge, M235 Prop Charge and M27 Fin) are procured on the same contract for all 60mm rounds. Original Contracts; Shell Bodies - C/FP FY99;M702 Ignition Cartridge C/FP FY00; M235 Prop Charge C/FP FY98 ; M27 Fin Assembly M27 C/FP FY99

FY 02 / 03 BUDGET PRODUCTION SCHEDULE							P-1 Item Nomenclature: CTG,MORTAR,60MM HE W/PD FUZE, M768 (E92900)										Date: February 2002													
COST ELEMENTS	MFR	FY	SERV	PROC QTY x1000	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
Load, Assemble, and Pack																														
	1	FY 01	A	43	0	43																		10						
	1	FY 02	A	36	0	36				A														36						
	1	FY 03	A	41	0	41											A							41						
Fuze, Point Detonating, M783																														
	2	FY 01	A	45	0	45	A								15	15	15							0						
	2	FY 02	A	37	0	37			A												7	15	15	0						
	2	FY 03	A	43	0	43											A							43						
Total				245		245									15	15	15				7	15	15	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
MFR	NAME/LOCATION	PRODUCTION RATES			REACHED D+	MFR Number	ADMINLEAD TIME		MFR After 1 Oct	TOTAL After 1 Oct	REMARKS																			
		MIN.	1-8-5	MAX.			Prior 1 Oct	After 1 Oct																						
1	Day & Zimmerman, Parsons, KS	5.00	12.00	30.00	0	1	INITIAL	6	9	24	33	Deliveries are scheduled for continuity of production.																		
						2	REORDER	3	5	21	26																			
2	KDI Precision Products Inc, Cincinnati, OH	10.00	15.00	40.00	0	2	INITIAL	6	9	15	24																			
							REORDER	6	5	12	17																			
							INITIAL																							
							REORDER																							
							INITIAL																							
							REORDER																							

Exhibit P-40, Budget Item Justification Sheet

Date:

February 2002

Appropriation/Budget Activity/Serial No:
Procurement of Ammunition, Army /1/Ammunition

P-1 Item Nomenclature
81MM MORTAR, ALL TYPES (E76000)

Program Elements for Code B Items:

Code:

Other Related Program Elements:

	Prior Years	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	To Complete	Total Prog
Proc Qty												
Gross Cost	328.5	11.3	5.2	3.4	10.9	3.6	4.9	5.0	4.8	4.9		382.4
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	328.5	11.3	5.2	3.4	10.9	3.6	4.9	5.0	4.8	4.9		382.4
Initial Spares												
Total Proc Cost	328.5	11.3	5.2	3.4	10.9	3.6	4.9	5.0	4.8	4.9		382.4
Flyaway U/C												
Wpn Sys Proc U/C												

Description:

This includes 81mm Mortar Ammunition, all types. These rounds are fired from the M252 81mm Light Battalion Mortar System. In the future, these rounds will be also used in subcaliber training with the M120/M121 120mm Heavy Battalion Mortar System using the M303E1 training device. The FY 2003 procurement supports war reserve and training requirements, as well as non recurring materiel modifications.

Exhibit P-5, Weapon AMMO Cost Analysis		Appropriation/Budget Activity/Serial No. Procurement of Ammunition, Army / 1 / Ammunition			P-1 Line Item Nomenclature: 81MM MORTAR, ALL TYPES (E76000)			Weapon System Type:			Date: February 2002			
AMMO Cost Elements		ID	FY 00			FY 01			FY 02			FY 03		
		CD	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
			\$000	x1000	\$000	\$000	x1000	\$000	\$000	x1000	\$000	\$000	x1000	\$000
E18430 Ctg Mortar, 81mm HE w/MO M821A1						3366			3475					
E19800 Ctg Mortar 81mm SR Pract M880														
E76100 Ctg Mortar 81mm Illum M853A1									3476	6	580			
E90000 Ctg 81mm Infrared (IR) Illum M816									3972	2	1589	3582	3	1182
Total						3366			10923			3582		

Exhibit P-40, Budget Item Justification Sheet

Date:

February 2002

Appropriation/Budget Activity/Serial No:
Procurement of Ammunition, Army /1/Ammunition

P-1 Item Nomenclature
CTG, MORTAR, 120MM, ALL TYPES (E25500)

Program Elements for Code B Items:

Code:

Other Related Program Elements:

	Prior Years	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	To Complete	Total Prog
Proc Qty												
Gross Cost	561.1	71.3	119.3	82.5	61.6	50.4	48.8	38.1	53.1	57.0		1143.1
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	561.1	71.3	119.3	82.5	61.6	50.4	48.8	38.1	53.1	57.0		1143.1
Initial Spares												
Total Proc Cost	561.1	71.3	119.3	82.5	61.6	50.4	48.8	38.1	53.1	57.0		1143.1
Flyaway U/C												
Wpn Sys Proc U/C												

Description:

This budget line item includes 120mm Mortars, All Types.

Non-add Cost of War funding to allow full training of troops to meet standards is provided as follows:

FY 2004 \$13.0 million
 FY 2005 \$ 7.8 million
 FY 2006 \$ 7.8 million
 FY 2007 \$ 7.8 million

Exhibit P-5, Weapon AMMO Cost Analysis		Appropriation/Budget Activity/Serial No. Procurement of Ammunition, Army / 1 / Ammunition			P-1 Line Item Nomenclature: CTG, MORTAR, 120MM, ALL TYPES (E25500)			Weapon System Type:			Date: February 2002			
AMMO Cost Elements		ID	FY 00			FY 01			FY 02			FY 03		
		CD	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
			\$000	x1000	\$000	\$000	x1000	\$000	\$000	x1000	\$000	\$000	x1000	\$000
Ctg, Mortar 120mm HE M934A1 w/MO Fuze						52695	65	811	43234	55	787	37268	46	811
Ctg, Mortar, 120mm Illum XM930 W/MTSQ FZ						4965			3496	2	2	1956	1	2
Ctg, 120mm WP Smoke M929A1						24794	15	1653	11401	11	2	5923	9	1
Ctg, 120mm Mortar IR Illum M983									3496	2	2	5278	3	1760
Total						82454			61627			50425		

Exhibit P-40, Budget Item Justification Sheet

Date:

February 2002

Appropriation/Budget Activity/Serial No:
Procurement of Ammunition, Army /1/Ammunition

P-1 Item Nomenclature
CTG MORTAR 120MM HE M934 W/MO FUZE (E25501)

Program Elements for Code B Items:

Code:
A

Other Related Program Elements:

E91400 (M934A1 funding starting in FY03)

	Prior Years	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	To Complete	Total Prog
Proc Qty	244	50	65	65	55	46	30	17	17	19		608
Gross Cost	115.5	36.8	48.8	52.7	43.2	37.3	28.1	17.9	18.3	21.5		420.0
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	115.5	36.8	48.8	52.7	43.2	37.3	28.1	17.9	18.3	21.5		420.0
Initial Spares												
Total Proc Cost	115.5	36.8	48.8	52.7	43.2	37.3	28.1	17.9	18.3	21.5		420.0
Flyaway U/C												
Wpn Sys Proc U/C												

Description:

The M934A1 High Explosive Cartridge with Multi Option Fuze is designed for use with the M120/M121 120mm Battalion Mortar System, currently fielded to all Armor and Mechanized Infantry units in the Army. The round is used against personnel and materiel providing both fragmentation and blast effect. It consists of a multi-option fuze, tail assembly, and projectile body with composition B explosive fill. The M934A1 uses the highly reliable and countermeasure resistant M734A1 multi-option fuze. The proximity setting will burst the round at a height over the target which is optimized for lethality. The round increases the lethality to 1.5 times the 4.2 inch high explosive round it replaces. This item is code A; it has been approved for service use.

Justification:

The FY 2003 procurement of the M934A1 supports building a war reserve inventory, which will replace the M934 as the preferred 120mm mortar ammunition. Additionally, the FY 2002 & FY 2003 programs fund a material modification to incorporate insensitive munitions technology into this round.

Type Classification Date: Non-Developmental Item (NDI) - MAR 90, Limited Procurement-Urgent (LPU); Enhanced Ammunition - M934 standard (STD) MAY92; M934A1 STD JUN 96.

Acquisition Manager: PM MORTARS

Non-add Cost of War funding to allow full training of troops to meet standards is provided as follows:

FY 2004 13 thousand rounds/\$13.0 million
 FY 2005 7 thousand rounds/\$ 7.8 million
 FY 2006 7 thousand rounds/\$ 7.8 million
 FY 2007 7 thousand rounds/\$ 7.8 million

Exhibit P-5, Weapon AMMO Cost Analysis		Appropriation/Budget Activity/Serial No. Procurement of Ammunition, Army / 1 / Ammunition			P-1 Line Item Nomenclature: CTG MORTAR 120MM HE M934 W/MO FUZE (E25501)			Weapon System Type:			Date: February 2002		
AMMO Cost Elements	ID CD	FY 00			FY 01			FY 02			FY 03		
		TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
		\$000	x1000	\$	\$000	x1000	\$	\$000	x1000	\$	\$000	x1000	\$
HARDWARE													
Load, Assemble, and Pack					7953	65	122	6839	55	124	5786	46	126
Shell Body					8616	68	127	7322	58	127	6147	48	129
Fuze, M734A1					15327	68	225	13000	58	226	11006	48	231
Propellant Charge M234					4369	269	17	3712	227	17	3193	189	17
Ignition Cartridge M1020					1938	68	29	1797	58	32	1519	48	32
Fin Assembly M31					2415	68	36	1921	58	34	1607	48	34
Fiber Container PA153					699	68	11	600	58	11	507	48	11
Overpack Container PA154					1512	34	45	1301	29	46	1101	24	47
SubTotal AMMO Hardware					42829			36492			30866		
Production Support Costs													
Production Engineering					1038			1057			1079		
Quality Assurance					240			245			250		
Acceptance Testing					809			689			628		
Interim Transportation					651			601			554		
PMO Core					2000			2039			2080		
SubTotal Prod. Support					4738			4631			4591		
COST - Nonrecurring													
Materiel Change - Insensitive Explosive					5128			2111			1811		
SubTotal COST - Nonrecurring					5128			2111			1811		
Total					52695		727	43234		792	37268		809

Exhibit P-5a, Budget Procurement History and Planning

Date:
February 2002

Appropriation/Budget Activity/Serial No: Procurement of Ammunition, Army / 1 / Ammunition		Weapon System Type:			P-1 Line Item Nomenclature: CTG MORTAR 120MM HE M934 W/MO FUZE (E25501)					
WBS Cost Elements:	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY x1000	Unit Cost \$	Specs Avail Now?	Date Revsn Avail	RFP Issue Date
Load, Assemble, and Pack										
FY 2001	SNC Technologies LeGardeur, PQ, Canada	OPT	TACOM	Mar 01	Jan 03	65	122	yes		
FY 2002	SNC Technologies LeGardeur, PQ, Canada	OPT	TACOM	Feb 02	Nov 03	55	124	yes		
FY 2003	SNC Technologies LeGardeur, PQ, Canada	OPT	TACOM	Feb 03	Nov 04	46	126	yes		
Shell Body										
FY 2001	Chamberlain Mfg Scranton, PA	C/FP/MYR	TACOM	Nov 01	Nov 02	68	127	yes		
FY 2002	Chamberlain Mfg Scranton, PA	MYR/OPT	TACOM	Feb 02	May 03	58	127	yes		
FY 2003	Chamberlain Mfg Scranton, PA	MRY/OPT	TACOM	Feb 03	Feb 04	48	129	yes		
Fuze, M734A1										
FY 2001	KDI Precision Products Inc. Cincinnati,OH	OPT	TACOM	Mar 01	Mar 02	68	225	yes		
FY 2002	KDI Precision Products Inc. Cincinnati,OH	OPT	TACOM	Feb 02	Feb 03	58	226	yes		
FY 2003	Unknown	C/FP	TACOM	Apr 03	Jun 04	48	231	yes		
Propellant Charge M234										
FY 2001	HiTech East Camden, AR	OPT	TACOM	Mar 01	Mar 02	269	17	yes		
FY 2002	HiTech East Camden, AR	OPT	TACOM	Feb 02	Feb 03	227	17	yes		

REMARKS: 120mm components (M31 fin, M1020 Ignition Cartridge, M734A1 Fuze, M234 Prop Charge, PA153 Container and PA154 Container) are procured on same contracts as other 120mm mortar rounds. The M934A1 LAP effort has been combined with the M931 LAP on one contract.
Shell bodies will be procured using a multiyear contract with a floor quantity (MYR) and options for greater quantities
Original Contracts: LAP - C/FP FY98; Shell Body - SS/FP FY96; M734A1 Fuze - C/FP FY98; Ign Ctg C/FP FY98; PA153 Container C/FP FY99; PA154 Container C/FP FY98
Slip of Shell Body Award will delay FY01 LAP start

Exhibit P-5a, Budget Procurement History and Planning

Date:
February 2002

Appropriation/Budget Activity/Serial No: Procurement of Ammunition, Army / 1 / Ammunition		Weapon System Type:			P-1 Line Item Nomenclature: CTG MORTAR 120MM HE M934 W/MO FUZE (E25501)					
WBS Cost Elements:	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY x1000	Unit Cost \$	Specs Avail Now?	Date Revsn Avail	RFP Issue Date
FY 2003 Ignition Cartridge M1020	HiTech East Camden, AR	OPT	TACOM	Feb 03	Feb 04	189	17	yes		
FY 2001	Pocal Industries Moscow, PA	OPT	TACOM	Feb 01	Feb 02	68	29	yes		
FY 2002	Pocal Industries Moscow, PA	OPT	TACOM	Feb 02	Feb 03	58	32	yes		
FY 2003 Fin Assembly M31	Unknown	C/FP	TACOM	Apr 03	Jun 04	48	32	yes		
FY 2001	Lockheed-Martin Naval Electron Archbald, PA	OPT	TACOM	Mar 01	Feb 02	68	36	yes		
FY 2002	Lockheed-Martin Naval Electron Archbald, PA	OPT	TACOM	Feb 02	Jan 03	58	34	yes		
FY 2003	Lockheed-Martin Naval Electron Archbald, PA	OPT	TACOM	Feb 03	Jan 04	48	34	yes		
Fiber Container PA153										
FY 2001	United Ammo Container Milan, TN	OPT	TACOM	Feb 01	Aug 01	68	11	yes		
FY 2002	United Ammo Container Milan, TN	OPT	TACOM	Feb 02	Aug 02	58	11	yes		
FY 2003 Overpack Container PA154	Unknown	C/FP	TACOM	Apr 03	Dec 03	48	11			
FY 2001	Brockway Standard Atlanta, GA	OPT	TACOM	Feb 01	Aug 01	34	45	yes		

REMARKS: 120mm components (M31 fin, M1020 Ignition Cartridge, M734A1 Fuze, M234 Prop Charge, PA153 Container and PA154 Container) are procured on same contracts as other 120mm mortar rounds. The M934A1 LAP effort has been combined with the M931 LAP on one contract.
Shell bodies will be procured using a multiyear contract with a floor quantity (MYR) and options for greater quantities
Original Contracts: LAP - C/FP FY98; Shell Body - SS/FP FY96; M734A1 Fuze - C/FP FY98; Ign Ctg C/FP FY98; PA153 Container C/FP FY99; PA154 Container C/FP FY98
Slip of Shell Body Award will delay FY01 LAP start

Exhibit P-5a, Budget Procurement History and Planning

Date:
February 2002

Appropriation/Budget Activity/Serial No: Procurement of Ammunition, Army / 1 / Ammunition		Weapon System Type:			P-1 Line Item Nomenclature: CTG MORTAR 120MM HE M934 W/MO FUZE (E25501)					
WBS Cost Elements:	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY x1000	Unit Cost \$	Specs Avail Now?	Date Revsn Avail	RFP Issue Date
FY 2002	Brockway Standard Atlanta, GA	OPT	TACOM	Feb 02	Aug 02	29	46	yes		
FY 2003	Unknown	C/FP	TACOM	Apr 03	Dec 03	24	47	yes		

REMARKS: 120mm components (M31 fin, M1020 Ignition Cartridge, M734A1 Fuze, M234 Prop Charge, PA153 Container and PA154 Container) are procured on same contracts as other 120mm mortar rounds. The M934A1 LAP effort has been combined with the M931 LAP on one contract.
Shell bodies will be procured using a multiyear contract with a floor quantity (MYR) and options for greater quantities
Original Contracts: LAP - C/FP FY98; Shell Body - SS/FP FY96; M734A1 Fuze - C/FP FY98; Ign Ctg C/FP FY98; PA153 Container C/FP FY99; PA154 Container C/FP FY98
Slip of Shell Body Award will delay FY01 LAP start

Exhibit P-40, Budget Item Justification Sheet

Date:

February 2002

Appropriation/Budget Activity/Serial No:
Procurement of Ammunition, Army /1/Ammunition

P-1 Item Nomenclature
CTG 120MM WP SMOKE M929A1 (E91300)

Program Elements for Code B Items:

Code:
A

Other Related Program Elements:

	Prior Years	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	To Complete	Total Prog
Proc Qty			64	15	11	5	9	9	9	9		131
Gross Cost			59.0	24.8	11.4	5.9	9.7	9.8	10.0	10.2		140.9
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)			59.0	24.8	11.4	5.9	9.7	9.8	10.0	10.2		140.9
Initial Spares												
Total Proc Cost			59.0	24.8	11.4	5.9	9.7	9.8	10.0	10.2		140.9
Flyaway U/C												
Wpn Sys Proc U/C												

Description:

The M929 White Phosphorus (WP) Smoke cartridge is designed for use with the M120/M121 120mm Battalion Mortar System, which is currently fielded to all Armor and Mechanized Infantry units in the Army. The round is used to provide smoke, with some incendiary effect, for various screening uses. It consists of a body with WP impregnated felt wedges, fuze, and tail assembly. The M929A1 uses the highly reliable and countermeasure resistant M734A1 multi-option fuze. The proximity setting bursts the round over a target, producing dense smoke which is 100 percent greater than the 4.2-in smoke round it replaces. The round is range matched to the 120mm high explosive (HE) and illuminating cartridges. This item is code A, approved for service use.

Justification:

FY 2003 procurements support annual peacetime training requirements in accordance with the Army's procurement goals.

Type Classification Date: NDI - MAR 90, limited procurement - urgent(LPU);
Enhanced Ammunition - XM929, limited rate production (LRP) MAY 92; M929, standard (STD) JUN 96.

Acquisition Manager: PM MORTARS

Exhibit P-5, Weapon AMMO Cost Analysis		Appropriation/Budget Activity/Serial No. Procurement of Ammunition, Army / 1 / Ammunition			P-1 Line Item Nomenclature: CTG 120MM WP SMOKE M929A1 (E91300)			Weapon System Type:			Date: February 2002		
AMMO Cost Elements	ID CD	FY 00			FY 01			FY 02			FY 03		
		TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
		\$000	x1000	\$000	\$000	x1000	\$000	\$000	x1000	\$000	\$000	x1000	\$000
AMMUNITION HARDWARE													
Load, Assemble, and Pack					3641	15	235	2635	11	240	1160	5	245
Shell Body					2717	16	169	2161	11	189	985	5	200
M86 Bursting LAP					401	16	25	299	11	27	133	5	27
Bursting Housing					336	16	21	246	11	22	109	5	23
Fuze, Multi-Option. M734A1					3618	16	225	2581	11	226	1136	5	231
Ignition Cartridge M1020					445	16	28	356	11	32	157	5	32
Propellant Charge M234					1010	64	16	736	45	17	330	19	17
Fin Assembly M31					534	16	34	381	11	34	166	5	34
Fiber Container PA153					165	16	11	119	11	11	52	5	11
Metal Overpack PA154					362	8	45	258	6	46	108	2	47
SubTotal AMMO Hardware					13229			9772			4336		
Production Support Costs													
Production Engineering					1018			1035			1073		
Quality Assurance					350			323			328		
Acceptance Testing					282			188			149		
Interim Transportation					115			83			37		
SubTotal Prod. Support					1765			1629			1587		
COST - Nonrecurring													
Smoke Training Round Material Change					6800								
Ignition Cartridge Material Change					3000								
SubTotal COST - Nonrecurring					9800								
Total					24794		1600	11401		1036	5923		1247

Exhibit P-5a, Budget Procurement History and Planning

Date:
February 2002

Appropriation/Budget Activity/Serial No: Procurement of Ammunition, Army / 1 / Ammunition		Weapon System Type:			P-1 Line Item Nomenclature: CTG 120MM WP SMOKE M929A1 (E91300)					
WBS Cost Elements:	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY x1000	Unit Cost \$	Specs Avail Now?	Date Revsn Avail	RFP Issue Date
Load, Assemble, and Pack										
FY 2001	Pine Bluff Arsenal Pine Bluff, AR	SS/CR	TACOM	Mar 01	Mar 03	15	235	yes		
FY 2002	Pine Bluff Arsenal Pine Bluff, AR	SS/CR	TACOM	Mar 02	Dec 03	11	240	yes		
FY 2003	Pine Bluff Arsenal Pine Bluff, AR	SS/CR	TACOM	Mar 03	Dec 04	5	245	yes		
Shell Body										
FY 2001	Chamberlain Manufacturing Scranton, PA	C/FP/MYR	TACOM	Nov 01	Dec 02	16	169	yes		
FY 2002	Chamberlain Manufacturing Scranton, PA	MYR/OPT	TACOM	Feb 02	Feb 03	11	189	yes		
FY 2003	Chamberlain Manufacturing Scranton, PA	MYR/OPT	TACOM	Feb 03	Feb 04	5	200	yes		
M86 Burster LAP										
FY 2001	American Ordnance Milan TN	OPT	TACOM	Jun 01	Jul 02	16	25	yes		
FY 2002	American Ordnance Milan TN	OPT	TACOM	Feb 02	Jan 01	11	27	yes		
FY 2003	American Ordnance Milan TN	OPT	TACOM	Feb 03	Mar 04	5	27	yes		
Burster Housing										
FY 2001	MaTech Hebron, MD	OPT	TACOM	May 01	Jun 02	16	21	yes		
FY 2002	MaTech Hebron, MD	OPT	TACOM	Feb 02	Mar 03	11	22	yes		

REMARKS: Pine Bluff Arsenal is a Government owned - Government Operated (GOGO) facility. Work is performed through yearly negotiated work orders, not contracts. 120mm common componens (M1020 Ignition Cartridge, M234 Prop Charge, M31 fin and PA153 & PA154 Containers) are procured on the same contract as other 120mm mortar rounds. Shell bodies will be procured using a multiyear contract with a floor quantity (MYR) and options for greater quantities
Original Contracts: LAP - C/FP FY98 ; Shell Body - SS/FP FY96 ; M734A1 Fuze - C/FP FY98 ; Ign Ctg C/FP FY98 ; PA153 Container C/FP FY99 ; PA154 Container C/FP FY98
Original Contracts: Shell Body - SS/FP FY96 ; M734A1 Fuze - C/FP FY98 ; Ign Ctg C/FP FY98 ; PA153 Container C/FP FY99 ; PA154 Container C/FP FY98

Exhibit P-5a, Budget Procurement History and Planning

Date:
February 2002

Appropriation/Budget Activity/Serial No: Procurement of Ammunition, Army / 1 / Ammunition		Weapon System Type:			P-1 Line Item Nomenclature: CTG 120MM WP SMOKE M929A1 (E91300)					
WBS Cost Elements:	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY x1000	Unit Cost \$	Specs Avail Now?	Date Revsn Avail	RFP Issue Date
FY 2003 Fuze, Multi-Option. M734A1	MaTech Hebron, MD	OPT	TACOM	Feb 03	Mar 04	5	23	yes		
FY 2001	KDI Precision Products Inc. Cincinnati, OH	OPT	TACOM	Mar 01	Mar 02	16	225	yes		
FY 2002	KDI Precision Products Inc. Cincinnati, OH	OPT	TACOM	Feb 02	Feb 03	11	226	yes		
FY 2003 Ignition Cartridge M1020	Unknown	C/FP	TACOM	Apr 03	Jun 04	5	231	yes		
FY 2001	Pocal Industries Moscow PA	OPT	TACOM	Feb 01	Feb 02	16	28	yes		
FY 2002	Pocal Industries Moscow PA	OPT	TACOM	Feb 02	Feb 03	11	32	yes		
FY 2003 Propellant Charge M234	Unknown	C/FP	TACOM	Apr 03	Jul 04	5	32	yes		
FY 2001	HiTech Camden, AR	OPT	TACOM	Mar 01	Mar 02	64	16	yes		
FY 2002	HiTech Camden, AR	OPT	TACOM	Feb 02	Feb 03	45	17	yes		
FY 2003	HiTech Camden, AR	OPT	TACOM	Feb 03	Feb 04	19	17	yes		
FY 2001 Fin Assembly M31	Lockheed-Martin Naval Electron Archbald, PA	OPT	TACOM	Mar 01	Feb 02	16	34	yes		

REMARKS: Pine Bluff Arsenal is a Government owned - Government Operated (GOGO) facility. Work is performed through yearly negotiated work orders, not contracts. 120mm common componens (M1020 Ignition Cartridge, M234 Prop Charge, M31 fin and PA153 & PA154 Containers) are procured on the same contract as other 120mm mortar rounds. Shell bodies will be procured using a multiyear contract with a floor quantity (MYR) and options for greater quantities
Original Contracts: LAP - C/FP FY98 ; Shell Body - SS/FP FY96 ; M734A1 Fuze - C/FP FY98 ; Ign Ctg C/FP FY98 ; PA153 Container C/FP FY99 ; PA154 Container C/FP FY98
Original Contracts: Shell Body - SS/FP FY96 ; M734A1 Fuze - C/FP FY98 ; Ign Ctg C/FP FY98 ; PA153 Container C/FP FY99 ; PA154 Container C/FP FY98

Exhibit P-5a, Budget Procurement History and Planning

Date:
February 2002

Appropriation/Budget Activity/Serial No: Procurement of Ammunition, Army / 1 / Ammunition		Weapon System Type:			P-1 Line Item Nomenclature: CTG 120MM WP SMOKE M929A1 (E91300)					
WBS Cost Elements:	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY x1000	Unit Cost \$	Specs Avail Now?	Date Revsn Avail	RFP Issue Date
FY 2002	Lockheed-Martin Naval Electron Archbald, PA	OPT	TACOM	Feb 02	Jan 03	11	34	yes		
FY 2003	Lockheed-Martin Naval Electron Archbald, PA	OPT	TACOM	Feb 03	Jan 04	5	34	yes		
Fiber Container PA153										
FY 2001	United Ammo Container Milan, TN	OPT	TACOM	Feb 01	Aug 01	16	11	yes		
FY 2002	United Ammo Container Milan, TN	OPT	TACOM	Feb 02	Aug 02	11	11	yes		
FY 2003	Unknown	C/FP	TACOM	Apr 03	Dec 03	5	11	yes		
Metal Overpack PA154										
FY 2001	Brockway Standard Atlanta, GA	OPT	TACOM	Feb 01	Aug 01	8	45	yes		
FY 2002	Brockway Standard Atlanta, GA	OPT	TACOM	Feb 01	Aug 02	6	46	yes		
FY 2003	Unknown	C/FP	TACOM	Apr 03	Dec 03	2	47	yes		

REMARKS: Pine Bluff Arsenal is a Government owned - Government Operated (GOGO) facility. Work is performed through yearly negotiated work orders, not contracts. 120mm common componens (M1020 Ignition Cartridge, M234 Prop Charge, M31 fin and PA153 & PA154 Containers) are procured on the same contract as other 120mm mortar rounds. Shell bodies will be procured using a multiyear contract with a floor quantity (MYR) and options for greater quantities
Original Contracts: LAP - C/FP FY98 ; Shell Body - SS/FP FY96 ; M734A1 Fuze - C/FP FY98 ; Ign Ctg C/FP FY98 ; PA153 Container C/FP FY99 ; PA154 Container C/FP FY98
Original Contracts: Shell Body - SS/FP FY96 ; M734A1 Fuze - C/FP FY98 ; Ign Ctg C/FP FY98 ; PA153 Container C/FP FY99 ; PA154 Container C/FP FY98

Exhibit P-40, Budget Item Justification Sheet

Date: February 2002

Appropriation/Budget Activity/Serial No:
Procurement of Ammunition, Army /1/Ammunition

P-1 Item Nomenclature
CTG 120MM Mortar IR ILLUM M983 (E91500)

Program Elements for Code B Items:

Code:
A

Other Related Program Elements:

	Prior Years	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	To Complete	Total Prog
Proc Qty					2	3	6	6	2	2		21
Gross Cost					3.5	5.3	11.1	10.3	5.5	5.6		41.2
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)					3.5	5.3	11.1	10.3	5.5	5.6		41.2
Initial Spares												
Total Proc Cost					3.5	5.3	11.1	10.3	5.5	5.6		41.2
Flyaway U/C												
Wpn Sys Proc U/C												

Description:

The M983 Infrared Illumination Cartridge with Mechanical Time - Super Quick Fuze is designed for use with the M120/M121 120mm Battalion Mortar System, currently fielded to all Armor and Mechanized Infantry units in the Army. The round is used to illuminate targets during night operations. Infrared Illumination greatly enhances the effectiveness of night vision devices. The round consists of a two-piece body filled with illuminating flare, M776 Mechanical Time (MT) fuze and tail assembly. The round is range matched to the 120mm high explosive (HE) and smoke cartridges. This item is code A, approved for service use.

Justification:

This procurement is part of the total package fielding effort for the 120mm mortar system. This procurement builds war reserve inventory in accordance with the Army's procurement goals.

Type Classification TCLP 3Q98, STD Jun 00

Acquisition Manager PM Mortars

Exhibit P-5, Weapon AMMO Cost Analysis		Appropriation/Budget Activity/Serial No. Procurement of Ammunition, Army / 1 / Ammunition			P-1 Line Item Nomenclature: CTG 120MM Mortar IR ILLUM M983 (E91500)			Weapon System Type:			Date: February 2002		
AMMO Cost Elements	ID CD	FY 00			FY 01			FY 02			FY 03		
		TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
		\$000	x1000	\$000	\$000	x1000	\$000	\$000	x1000	\$000	\$000	x1000	\$000
AMMUNITION HARDWARE													
Load, Assemble, and Pack							972	2	622	1638	3	634	
Shell Body							496	2	305	867	3	323	
Infrared Cannister							427	2	263	720	3	268	
Parachute Assembly							79	2	49	134	3	50	
Fuze, MTSQ, M776							228	2	141	385	3	144	
Ignition Cartridge M1020							51	2	32	85	3	32	
Propellant Charge M234							105	6	17	179	11	17	
Fin Assembly M31							54	2	34	90	3	34	
Fiber Container PA153							17	2	11	29	3	11	
Metal Container PA154							37	1	46	62	1	47	
SubTotal AMMO Hardware							2466			4189			
Production Support Costs													
Production Engineering							700			715			
Quality Assurance							100			102			
Acceptance Testing							164			168			
Interim Transportation							66			104			
SubTotal Prod. Support							1030			1089			
Total							3496			1939			5278

Exhibit P-5a, Budget Procurement History and Planning

Date:
February 2002

Appropriation/Budget Activity/Serial No: Procurement of Ammunition, Army / 1 / Ammunition		Weapon System Type:			P-1 Line Item Nomenclature: CTG 120MM Mortar IR ILLUM M983 (E91500)					
WBS Cost Elements:	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY x1000	Unit Cost \$	Specs Avail Now?	Date Revsn Avail	RFP Issue Date
Load, Assemble, and Pack										
FY 2002	Pine Bluff Arsenal Pine Bluff, AR	SS/CR	TACOM	Mar 02	Dec 03	2	622	yes		
FY 2003	Pine Bluff Arsenal Pine Bluff, AR	SS/CR	TACOM	Mar 03	Dec 04	3	634	yes		
Shell Body										
FY 2002	Chamberlain Manufacturing Scranton, PA	MYR/OPT	TACOM	Mar 02	Jun 03	2	305	yes		
FY 2003	Chamberlain Manufacturing Scranton, PA	MYR/OPT	TACOM	Feb 03	Mar 04	3	323	yes		
Infrared Cannister										
FY 2002	Crane Army Ammunition Activity Crane, IN	SS/CR	TACOM	Mar 02	Jun 03	2	263	yes		
FY 2003	Crane Army Ammunition Activity Crane, IN	SS/CR	TACOM	Mar 03	Jun 04	3	268	yes		
Parachute Assembly										
FY 2002	Paranetics San Diego, CA	OPT	TACOM	Feb 02	Jan 03	2	49	yes		
FY 2003	Paranetics San Diego, CA	OPT	TACOM	Feb 03	Jan 04	3	50	yes		
Fuze, MTSQ, M776										
FY 2002	Diehl GMBH Schramberg, GER	OPT	TACOM	Mar 02	Mar 03	2	141	yes		
FY 2003	Diehl GMBH Schramberg, GER	OPT	TACOM	Mar 03	Mar 04	3	144	yes		

REMARKS: Pine Bluff Arsenal and Crane Army Ammunition Activity are Government Owned - Government Operated (GOGO) facilities. Work is performed through yearly negotiated work orders, not contracts. 120mm common components (M1020 Ignition Cartridge, M234 Prop Charge, M31 Fin and PA153 & PA154 Containers) are produced on the same contract as other 120mm mortar rounds. Shell bodies will be procured using a multiyear contract with a floor quantity (MYR) and options for greater quantities. Original Contracts: Shell Body - C/FP/MYR FY01; M776 Fuze - SS/FP FY98; Ign Ctg C/FP FY98; Fin Assembly C/FP FY00; Prop Charge C/FP FY00; Parachute C/FP FY01

Exhibit P-5a, Budget Procurement History and Planning

Date:
February 2002

Appropriation/Budget Activity/Serial No: Procurement of Ammunition, Army / 1 / Ammunition		Weapon System Type:			P-1 Line Item Nomenclature: CTG 120MM Mortar IR ILLUM M983 (E91500)					
WBS Cost Elements:	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY x1000	Unit Cost \$	Specs Avail Now?	Date Revsn Avail	RFP Issue Date
Ignition Cartridge M1020										
FY 2002	Pocal Industries Scranton, PA	OPT	TACOM	Feb 02	Feb 03	2	32	yes		
FY 2003	Unknown	C/FP	TACOM	Apr 03	Jul 04	3	32	yes		
Propellant Charge M234										
FY 2002	HiTech East Camden, AR	OPT	TACOM	Feb 02	Feb 03	6	17	yes		
FY 2003	HiTech East Camden, AR	OPT	TACOM	Feb 03	Feb 04	11	17	yes		
Fin Assembly M31										
FY 2002	Lockheed-Martin Naval Electron Archbald, PA	OPT	TACOM	Feb 02	Jan 03	2	34	yes		
FY 2003	Lockheed-Martin Naval Electron Archbald, PA	OPT	TACOM	Feb 03	Jan 04	3	34	yes		
Fiber Container PA153										
FY 2002	United Ammo Container Milan, TN	OPT	TACOM	Feb 02	Aug 02	2	11	yes		
FY 2003	Unknown	C/FP	TACOM	Apr 03	Dec 03	3	11	yes		
Metal Container PA154										
FY 2002	Brockway Standard Atlanta, GA	C/FP	TACOM	Feb 02	Aug 02	1	46	yes		
FY 2003	Unknown	OPT	TACOM	Apr 03	Dec 03	1	47	yes		

REMARKS: Pine Bluff Aresnal and Crane Army Ammunition Activity are Government Owned - Government Operated (GOGO) facilities. Work is performed through yearly negotiated work orders, not contracts. 120mm common components (M1020 Ignition Cartridge, M234 Prop Charge, M31 Fin and PA153 & PA154 Containers) are produced on the same contract as other 120mm mortar rounds. Shell bodies will be procured using a multiyear contract with a floor quantity (MYR) and options for greater quantities
Original Contracts: Shell Body - C/FP/MYR FY01; M776 Fuze - SS/FP FY98; Ign Ctg C/FP FY98; Fin Assembly C/FP FY00; Prop Charge C/FP FY00; Parachute C/FP FY01

Exhibit P-40, Budget Item Justification Sheet

Date: February 2002

Appropriation/Budget Activity/Serial No:
Procurement of Ammunition, Army /1/Ammunition

P-1 Item Nomenclature
CTG TANK 105MM: ALL TYPES (E22203)

Program Elements for Code B Items:

Code:

Other Related Program Elements:

	Prior Years	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	To Complete	Total Prog
Proc Qty												
Gross Cost	2287.2				6.0	14.1	21.0	28.0	23.0	21.0		2400.3
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	2287.2				6.0	14.1	21.0	28.0	23.0	21.0		2400.3
Initial Spares												
Total Proc Cost	2287.2				6.0	14.1	21.0	28.0	23.0	21.0		2400.3
Flyaway U/C												
Wpn Sys Proc U/C												

Description:

This budget line includes Cartridge, Tank, 105mm, All Types.

Exhibit P-5, Weapon AMMO Cost Analysis		Appropriation/Budget Activity/Serial No. Procurement of Ammunition, Army / 1 / Ammunition			P-1 Line Item Nomenclature: CTG TANK 105MM: ALL TYPES (E22203)			Weapon System Type:			Date: February 2002			
AMMO Cost Elements		ID	FY 00			FY 01			FY 02			FY 03		
		CD	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
			\$000	Units	\$	\$000	Units	\$	\$000	Units	\$	\$000	Units	\$
Ctg, 105mm, HEP-TP												6000	2	3000
Ctg, Tank, 105mm, HEP-T, W/Fuze Gun									5994	1	5994	8100	3	2700
Total									5994			14100		

Exhibit P-40, Budget Item Justification Sheet

Date: February 2002

Appropriation/Budget Activity/Serial No:
Procurement of Ammunition, Army /1/Ammunition

P-1 Item Nomenclature
CTG, 105MM, HEP-TP (E22300)

Program Elements for Code B Items:

Code:
B

Other Related Program Elements:

	Prior Years	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	To Complete	Total Prog
Proc Qty	352					2	6	10	15	15		400
Gross Cost	25.8					6.0	10.0	15.0	21.0	21.0		98.8
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	25.8					6.0	10.0	15.0	21.0	21.0		98.8
Initial Spares												
Total Proc Cost	25.8					6.0	10.0	15.0	21.0	21.0		98.8
Flyaway U/C												
Wpn Sys Proc U/C												

Description:

The 105mm Target Practice w/Tracer (TP-T) cartridge will be an inert round of ammunition fitted with a tracer for use by the Army's new Mobile Gun System (MGS) in gunnery qualification and training. It will be similar in appearance and ballistically similar to the 105mm High Explosive w/Tracer (HE-T) tactical cartridge being developed for the MGS. Currently, there are approximately 8,000 older 105mm training cartridges in the Army's stockpile, which could be used to support short-term training requirements until new training ammunition becomes available. This procurement addresses new training ammunition only. The current estimated annual requirement is just over 10,000 cartridges based on a draft Standards in Training Commission (STRAC) manual to support the MGS in the six Brigade Combat Teams. This item is being procured as a non-developmental item in parallel with the high-explosive tactical cartridge. This item is Code B, not approved for service use.

Justification:

This is training unique item, not used in combat. FY 2003 procurement supports annual peacetime training and builds a depot-level inventory in accordance with the Army's procurement goals.

LRIP: February 2003

Type Classified Standard: February 2004

Acquisition Manager: Project Manager, Tank and Medium-caliber Armament Systems (PM-TMAS)

Exhibit P-5, Weapon AMMO Cost Analysis		Appropriation/Budget Activity/Serial No. Procurement of Ammunition, Army / 1 / Ammunition			P-1 Line Item Nomenclature: CTG, 105MM, HEP-TP (E22300)			Weapon System Type:			Date: February 2002		
AMMO Cost Elements	ID CD	FY 00			FY 01			FY 02			FY 03		
		TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
		\$000	x1000	\$000	\$000	x1000	\$000	\$000	x1000	\$000	\$000	x1000	\$000
AMMUNITION HARDWARE													
Complete Round											3300	2	1830
SubTotal AMMO Hardware											3300		
Production Support Costs													
Production Engineering											950		
Quality Assurance											350		
Acceptance Testing											1000		
SobTotal Production Support											2300		
Cost Non-Recurring													
First Article Testing											400		
SubTotal Non-Recurring											400		
Total											6000		

Exhibit P-5a, Budget Procurement History and Planning

Date:
February 2002

Appropriation/Budget Activity/Serial No:
Procurement of Ammunition, Army / 1 / Ammunition

Weapon System Type:

P-1 Line Item Nomenclature:
CTG, 105MM, HEP-TP (E22300)

WBS Cost Elements:	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY x1000	Unit Cost \$	Specs Avail Now?	Date Revsn Avail	RFP Issue Date
Complete Round FY 2003	TBS	C/FP	ARDEC	Jan-03	Mar-04	2	1830	No	Dec-04	

REMARKS:

Exhibit P-40, Budget Item Justification Sheet

Date:

February 2002

Appropriation/Budget Activity/Serial No:
Procurement of Ammunition, Army /1/Ammunition

P-1 Item Nomenclature
CTG, TANK, 105MM, HEP-T, W/FUZE M393A2 (E24300)

Program Elements for Code B Items:

Code:
B

Other Related Program Elements:

	Prior Years	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	To Complete	Total Prog
Proc Qty	1415				1	3	3	3				1425
Gross Cost	97.5				6.0	8.1	8.0	8.0				127.6
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	97.5				6.0	8.1	8.0	8.0				127.6
Initial Spares												
Total Proc Cost	97.5				6.0	8.1	8.0	8.0				127.6
Flyaway U/C												
Wpn Sys Proc U/C												

Description:

The next generation 105mm High Explosive w/Tracer (HE-T) cartridge will replace the current, aged stockpile of M393A2 High Explosive Plastic (HEP) 105mm tank ammunition cartridges. This updated high explosive cartridge will be fired from the 105mm main armament of the Mobile Gun System (MGS) variant of the Interim Armored Vehicle (IAV). Procured using a performance specification with threshold requirements equating to M393A2 performance, this non-developmental acquisition will incorporate components which meet current safety requirements, fuze, and improved insensitive munitions requirements. While a variety of contractor developed solutions are possible, a cartridge case, granular propellant, electrically initiated primer, high explosive projectile, and impact initiating fuze will be used to meet ammunition interface requirements for the MGS. This item is Code B, not approved for service use.

Justification:

The procurement of this high explosive cartridge adheres to the US Army's Transformation Campaign Plan and Modernization Strategy. The MGS is the IAV variant providing the Brigade Combat Team with direct fire support to dismounted infantry. A Key Performance Parameter (KPP) for the Mobile Gun System is that the primary armament system must create an opening in a double reinforced concrete wall through which infantry can pass. The 105mm HE-T will be the ammunition cartridge to achieve this KPP.

LRIP: August 2002.

Type Classified Standard: September 2003.

Acquisition Manager: Project Manager, Tank and Medium Caliber Armament Systems (PM-TMAS).

Exhibit P-5, Weapon AMMO Cost Analysis		Appropriation/Budget Activity/Serial No. Procurement of Ammunition, Army / 1 / Ammunition			P-1 Line Item Nomenclature: CTG, TANK, 105MM, HEP-T, W/FUZE M393A2 (E24300)			Weapon System Type:			Date: February 2002		
AMMO Cost Elements	ID CD	FY 00			FY 01			FY 02			FY 03		
		TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
		\$000	x1000	\$000	\$000	x1000	\$000	\$000	x1000	\$000	\$000	x1000	\$000
AMMUNITION HARDWARE													
Complete Round							2636	1	4393	5350	3	2058	
SubTotal AMMO Hardware							2636			5350			
Production Support Costs													
Production Engineering							950			1050			
Quality Assurance							450			500			
Acceptance Testing							958			900			
SubTotal Prod. Support							2358			2450			
COST - Nonrecurring													
Verification/FAT							1000				300		
ECP's													
Sub Total Non-Recurring							1000			300			
Total							5994			8100			

Exhibit P-5a, Budget Procurement History and Planning

Date:
February 2002

Appropriation/Budget Activity/Serial No: Procurement of Ammunition, Army / 1 / Ammunition		Weapon System Type:			P-1 Line Item Nomenclature: CTG, TANK, 105MM, HEP-T, W/FUZE M393A2 (E24300)					
WBS Cost Elements:	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
Complete Round FY 2002 FY 2003	TBS TBS	C/FP C/FP	ARDEC ARDEC	Feb-02 Dec-02	May-03 Oct-03	1 3	4393 2058	No No	Dec-02 Dec-02	

REMARKS:

Exhibit P-40, Budget Item Justification Sheet

Date: February 2002

Appropriation/Budget Activity/Serial No:
Procurement of Ammunition, Army /1/Ammunition

P-1 Item Nomenclature
120MM TANK TRAINING, ALL TYPES (E89700)

Program Elements for Code B Items:

Code:

Other Related Program Elements:

	Prior Years	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	To Complete	Total Prog
Proc Qty												
Gross Cost	2014.6	180.0	115.8	148.9	142.7	155.0	130.2	129.7	124.3	139.6		3280.8
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	2014.6	180.0	115.8	148.9	142.7	155.0	130.2	129.7	124.3	139.6		3280.8
Initial Spares												
Total Proc Cost	2014.6	180.0	115.8	148.9	142.7	155.0	130.2	129.7	124.3	139.6		3280.8
Flyaway U/C												
Wpn Sys Proc U/C												

Description:

This budget line includes 120mm Tank Training Ammunition, All Types.

Exhibit P-5, Weapon AMMO Cost Analysis		Appropriation/Budget Activity/Serial No. Procurement of Ammunition, Army / 1 / Ammunition			P-1 Line Item Nomenclature: 120MM TANK TRAINING, ALL TYPES (E89700)			Weapon System Type:			Date: February 2002		
AMMO Cost Elements	ID CD	FY 00			FY 01			FY 02			FY 03		
		TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
		\$000	x1000	\$000	\$000	x1000	\$000	\$000	x1000	\$000	\$000	x1000	\$000
Ctg, Tank, 120mm TP-T M831/M831A1					43738	78	561	45879	86	1	51471	85	1
Ctg, Tank, 120mm TPCSDS-T M865					105201	194	543	96809	198	1	103492	198	1
Total					148939			142688			154963		

Exhibit P-40, Budget Item Justification Sheet

Date:

February 2002

Appropriation/Budget Activity/Serial No:
Procurement of Ammunition, Army /1/Ammunition

P-1 Item Nomenclature
CTG TANK 120MM TP-T M831/M831A1 (E73300)

Program Elements for Code B Items:

Code:
A

Other Related Program Elements:

	Prior Years	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	To Complete	Total Prog
Proc Qty	816	107	64	78	86	85	53	53	47	53		1442
Gross Cost	672.5	57.7	35.2	43.7	45.9	51.5	43.9	43.0	40.3	44.6		1078.5
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	672.5	57.7	35.2	43.7	45.9	51.5	43.9	43.0	40.3	44.6		1078.5
Initial Spares												
Total Proc Cost	672.5	57.7	35.2	43.7	45.9	51.5	43.9	43.0	40.3	44.6		1078.5
Flyaway U/C												
Wpn Sys Proc U/C												

Description:

The 120MM M831A1 Target Practice-Tracer (TP-T) is a target practice round that simulates the ballistics of the chemical energy service round (M830). This round is fired from the M256 120MM smooth bore cannon on the M1A1/M1A2 Abrams tank. The projectile is inert and is composed of a steel spike aluminum body, ring, stabilizer, nylon obturator and tracer. The stabilizer spins the round in flight. This item is Code A, approved for service use.

Justification:

This is a training unique item; not used in combat. Tank crews conduct live fire training with this round to meet and maintain gunnery proficiency. FY 2003 procurement supports annual peacetime training and builds a depot level in accordance with the Army's procurement goals. The acquisition strategy for FY 1999 - FY 2003 is a five year multi-year production contract.

TYPE CLASSIFICATION DATE: 1983

ACQUISITION MANAGER: OSC, Rock Island, Ill

Exhibit P-5, Weapon AMMO Cost Analysis		Appropriation/Budget Activity/Serial No. Procurement of Ammunition, Army / 1 / Ammunition			P-1 Line Item Nomenclature: CTG TANK 120MM TP-T M831/M831A1 (E73300)			Weapon System Type:			Date: February 2002		
AMMO Cost Elements	ID CD	FY 00			FY 01			FY 02			FY 03		
		TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
		\$000	x1000	\$	\$000	x1000	\$	\$000	x1000	\$	\$000	x1000	\$
AMMUNITION HARDWARE													
Complete Round					40226	78	518.07	45138	86	524.86	45038	85	529.86
SubTotal AMMO Hardware					40226			45138			45038		
Production Support Costs													
Production Engineering					2975			741			5622		
Quality Assurance					35						36		
Acceptance Testing					502						775		
SubTotal Prod. Support					3512			741			6433		
Total					43738		563.31	45879		533.48	51471		605.55

Exhibit P-5a, Budget Procurement History and Planning

Date:
February 2002

Appropriation/Budget Activity/Serial No:
Procurement of Ammunition, Army / 1 / Ammunition

Weapon System Type:

P-1 Line Item Nomenclature:
CTG TANK 120MM TP-T M831/M831A1 (E73300)

WBS Cost Elements:	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY x1000	Unit Cost \$	Specs Avail Now?	Date Revsn Avail	RFP Issue Date
Complete Round										
FY 2001	Alliant Tech Sys, Inc New Brighton, MN	CM-3/FP	OSC, Rock Island, IL	Jan 2001	Dec 2001	44	518.07			
FY 2001	General Dynamics Ord & Tac St. Petersburg, FL	CM-3/FP	OSC, Rock Island, IL	Feb 2001	Jan 2002	34	518.07			
FY 2002	TBS	CM-4/FP	OSC, Rock Island, IL	Mar 2002	Oct 2002	86	524.86	Y		
FY 2003	TBS	CM-5/FP	OSC, Rock Island, IL	Jan 2003	Oct 2003	85	529.86	Y		

REMARKS: TBS - To Be Selected

Exhibit P-40, Budget Item Justification Sheet

Date:

February 2002

Appropriation/Budget Activity/Serial No:
Procurement of Ammunition, Army /1/Ammunition

P-1 Item Nomenclature
CTG TANK 120MM TPCSDS-T M865 (E73400)

Program Elements for Code B Items:

Code:
A

Other Related Program Elements:

	Prior Years	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	To Complete	Total Prog
Proc Qty	2059	241	141	194	198	198	133	134	125	142		3565
Gross Cost	1342.1	122.2	80.6	105.2	96.8	103.5	86.3	86.7	84.0	95.0		2202.3
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	1342.1	122.2	80.6	105.2	96.8	103.5	86.3	86.7	84.0	95.0		2202.3
Initial Spares												
Total Proc Cost	1342.1	122.2	80.6	105.2	96.8	103.5	86.3	86.7	84.0	95.0		2202.3
Flyaway U/C												
Wpn Sys Proc U/C												

Description:

The 120MM M865 Target Practice Cone-Stabilized Discarding Sabot with Tracer (TPCSDS-T) is a target practice round that simulates the ballistics of the 120MM M829A2 Armor Piercing Fin-Stabilized Discarding Sabot with Tracer round. This round is fired from the M256 120MM cannon on the M1A1/M1A2 Abrams tank. This item is Code A, approved for service use.

Justification:

This is a training unique item; not used in combat. FY 2003 procurement supports annual peacetime training and builds a depot level in accordance with the Army's procurement goals. The requested ammunition is required to support annual tank proficiency training for 120MM gunned tanks. Training with this round simulates the firing of the Army's most lethal armor-defeating kinetic energy round in support of Army readiness objectives. The acquisition strategy for FY 1999 - FY 2003 is a five year, multi-year production contract.

TYPE CLASSIFICATION DATE: 1984

ACQUISITION MANAGER: OSC, Rock Island, Ill

Exhibit P-5, Weapon AMMO Cost Analysis		Appropriation/Budget Activity/Serial No. Procurement of Ammunition, Army / 1 / Ammunition			P-1 Line Item Nomenclature: CTG TANK 120MM TPCSDS-T M865 (E73400)			Weapon System Type:			Date: February 2002		
AMMO Cost Elements	ID CD	FY 00			FY 01			FY 02			FY 03		
		TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
		\$000	x1000	\$	\$000	x1000	\$	\$000	x1000	\$	\$000	x1000	\$
AMMUNITION HARDWARE													
Complete Round					95000	194	490.70	96809	198	488.93	98840	198	499.19
SubTotal AMMO Hardware					95000			96809			98840		
Production Support Costs													
Production Engineering					9327						4006		
Quality Assurance					49						47		
Acceptance Testing					825						599		
SubTotal Prod. Support					10201						4652		
Total					105201		543.39	96809		488.93	103492		522.69

Exhibit P-5a, Budget Procurement History and Planning

Date:
February 2002

Appropriation/Budget Activity/Serial No:
Procurement of Ammunition, Army / 1 / Ammunition

Weapon System Type:

P-1 Line Item Nomenclature:
CTG TANK 120MM TPCSDS-T M865 (E73400)

WBS Cost Elements:	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY x1000	Unit Cost \$	Specs Avail Now?	Date Revsn Avail	RFP Issue Date
Complete Round										
FY 2001	Alliant Tech New Brighton, MN	CM-3/FP	OSC, Rock Island, IL	Jan 2001	Oct 2001	94	490.70			
FY 2001	General Dynamics Ord & Tac St. Petersburg, FL	CM-3/FP	OSC, Rock Island, IL	Feb 2001	Nov 2001	100	490.70			
FY 2002	TBS	CM-4/FP	OSC, Rock Island, IL	Mar2002	Oct 2002	198	488.93	Y		
FY 2003	TBS	CM-5/FP	OSC, Rock Island, IL	Jan 2003	Oct 2003	198	499.19	Y		

REMARKS: TBS - To Be Selected

Exhibit P-40, Budget Item Justification Sheet

Date: February 2002

Appropriation/Budget Activity/Serial No:
Procurement of Ammunition, Army /1/Ammunition

P-1 Item Nomenclature
Ctg, Tank, 120mm Tactical, All Types (E78012)

Program Elements for Code B Items:

Code:

Other Related Program Elements:

	Prior Years	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	To Complete	Total Prog
Proc Qty												
Gross Cost	1945.5	25.5	48.6		35.3	43.3	47.7	50.9	51.6	52.4	80.0	2380.9
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	1945.5	25.5	48.6		35.3	43.3	47.7	50.9	51.6	52.4	80.0	2380.9
Initial Spares												
Total Proc Cost	1945.5	25.5	48.6		35.3	43.3	47.7	50.9	51.6	52.4	80.0	2380.9
Flyaway U/C												
Wpn Sys Proc U/C												

Description:

This budget line item includes Cartridge, Tank, 120mm Tactical, All Types.

Exhibit P-5, Weapon AMMO Cost Analysis		Appropriation/Budget Activity/Serial No. Procurement of Ammunition, Army / 1 / Ammunition			P-1 Line Item Nomenclature: Ctg, Tank, 120mm Tactical, All Types (E78012)			Weapon System Type:			Date: February 2002		
AMMO Cost Elements	ID CD	FY 00			FY 01			FY 02			FY 03		
		TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
		\$000	x1000	\$	\$000	x1000	\$	\$000	x1000	\$	\$000	x1000	\$
Ctg, 120mm APFSDS M829E3 Cartridge, 120mm Canister, XM1028								35348	5	8	40254	8	5032
											3000	2	1500
Total								35348			43254		

Exhibit P-40, Budget Item Justification Sheet

Date:

February 2002

Appropriation/Budget Activity/Serial No:
Procurement of Ammunition, Army /1/Ammunition

P-1 Item Nomenclature
Cartridge, 120mm, Canister, XM1028 (E78011)

Program Elements for Code B Items:

Code:
B

Other Related Program Elements:

	Prior Years	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	To Complete	Total Prog
Proc Qty						2	8	6				16
Gross Cost						3.0	10.0	7.5				20.5
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)						3.0	10.0	7.5				20.5
Initial Spares												
Total Proc Cost						3.0	10.0	7.5				20.5
Flyaway U/C												
Wpn Sys Proc U/C												

Description:

The XM1028 Canister is a muzzle action anti-personnel tank cartridge. This cartridge is fired from the 120mm main gun of the M1A1/M1A2 Abrams tank and is effective at ranges less than 700 meters. Procurement will use a performance specification containing requirements derived from the Annex I to the 120mm tank ammunition ORD. Although the XM1028 is intended to be a performance specification development, it is anticipated the design will replicate a Government concept where approximately 1000 tungsten balls are expelled from the projectile, similar to a shotgun shell. Unlike previous anti-personnel cartridges, the XM1028 will have no fuze and it is intended to be a low-cost, low-technology cartridge. It is likely that the XM1028 will use cartridge case and propulsion-ignition system components common to the current 120mm tank ammunition. The acquisition will be competitive, limited to the US and Canada. This item is Code B, not approved for service use.

Justification:

Procurement of the XM1028 adheres to the Army's Transformation Campaign Plan and Modernization Strategy by maintaining the Abrams Main Battle tank as the Army's premier lethal battlefield direct-fire assault vehicle. This cartridge meets an urgent requirement from the Commander-in-Chief, United States Forces Korea (USFK), to effectively provide rapid, lethal fire against massed assaulting infantry armed with hand-held anti-tank and automatic weapons at close range (700 meters or less). This cartridge will significantly increase the Abram's lethality and enhance the tank crew's survivability, especially in close-compartmented terrain, and provide necessary support to friendly assaulting infantry. This procurement will build a war reserve and training inventory of anti-personnel canister cartridges for the USFK. Procurement of this cartridge can be extended/expanded to meet additional Army needs, if required.

Type Classification Limited Production: March 2003

Type Classification Standard: December 2004

Acquisition Manager: Project Manager, Tank and Medium-caliber Armament Systems (PM-TMAS).

Exhibit P-5, Weapon AMMO Cost Analysis		Appropriation/Budget Activity/Serial No. Procurement of Ammunition, Army / 1 / Ammunition			P-1 Line Item Nomenclature: Cartridge, 120mm, Canister, XM1028 (E78011)			Weapon System Type:			Date: February 2002		
AMMO Cost Elements	ID CD	FY 00			FY 01			FY 02			FY 03		
		TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
		\$000	x1000	\$	\$000	x1000	\$	\$000	x1000	\$	\$000	x1000	\$
AMMUNITION HARDWARE													
Complete Round											2010	2	1340
SubTotal AMMO Hardware											2010		
Production Support Costs													
Production Engineering											475		
Quality Assurance											125		
Acceptance Testing											250		
SubTotal Prod. Support											850		
COST - Nonrecurring													
First Article Testing											140		
Total											3000		

Exhibit P-5a, Budget Procurement History and Planning

Date:
February 2002

Appropriation/Budget Activity/Serial No:
Procurement of Ammunition, Army / 1 / Ammunition

Weapon System Type:

P-1 Line Item Nomenclature:
Cartridge, 120mm, Canister, XM1028 (E78011)

WBS Cost Elements:	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY Units	Unit Cost \$	Specs Avail Now?	Date Revsn Avail	RFP Issue Date
Complete Round FY 2003	TBS	C/FP	ARDEC	Apr-03	Nov-03	2	1340	No	Dec-04	

REMARKS:

Exhibit P-40, Budget Item Justification Sheet

Date:

February 2002

Appropriation/Budget Activity/Serial No:
Procurement of Ammunition, Army /1/Ammunition

P-1 Item Nomenclature
Ctg. 120mm APFSDS M829E3 (E78013)

Program Elements for Code B Items:

Code:
B

Other Related Program Elements:

	Prior Years	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	To Complete	Total Prog
Proc Qty					5	8	8	8	10	10	16	65
Gross Cost					35.3	40.3	37.7	43.4	51.6	52.4	80.0	340.8
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)					35.3	40.3	37.7	43.4	51.6	52.4	80.0	340.8
Initial Spares												
Total Proc Cost					35.3	40.3	37.7	43.4	51.6	52.4	80.0	340.8
Flyaway U/C												
Wpn Sys Proc U/C					7.1	5.0	4.7	5.4	5.2	5.2	5.0	

Description:

The 120mm M829E3 Armor Piercing, Fin Stabilized, Discarding Sabot with Tracer (APFSDS-T) cartridge is the follow-on to the M829A2 APFSDS-T cartridge, with production beginning in FY02. The M829E3 is designed to be the most effective anti-armor kinetic energy round fired from the M256 120mm smoothbore cannon mounted on the Abrams Main Battle Tank. This cartridge has been specifically developed to counter advances in armor protection technologies, to include explosive reactive armor. The propulsion system consists of a high energy propellant and a combustible cartridge case with an electric primer. The projectile system consists of a depleted uranium (DU) penetrator mated to a drag reducing windshield and flight stabilizing multi-bladed tail fin, all secured for launch by a composite sabot. The M829E3 utilizes similar components to the M829A1 and M829A2 series of APFSDS-T cartridges, but incorporates technological advancements to provide significantly more effective anti-armor capability than the predecessor designs. This system supports the Legacy-to-Objective transition path of the Transformation Campaign Plan (TCP). This item is Code B, not approved for service use.

Justification:

Procurement of the M829E3 adheres to the Army's Transformation Campaign Plan and Modernization Strategy by maintaining the Abrams Main Battle Tank as the Army's premier lethal battlefield direct fire assault fighting vehicle. The Abrams' 120mm gun will remain in the bulk of the tank inventory for at least the next 25 years. The M829E3 ammunition is essential in maintaining the battlefield overmatch capabilities of the Abrams Tank. This procurement will build a war reserve inventory of anti-armor cartridges in accordance with the Army's procurement goal. A review for low-rate production was approved in December 2001 with Type Classification Standard scheduled for 1QFY03. Production and fielding of the M829E3 will maintain the ability of the Abrams Main Battle Tank to defeat current and postulated armor threats. This round incorporates revolutionary advances in technology and will represent the most lethal anti-armor tank cartridge in production.

Type Classification Standard: November 2002.

Acquisition Manager: Project Manager, Tank and Medium-Caliber Armament Systems (PM-TMAS)

Exhibit P-5, Weapon AMMO Cost Analysis		Appropriation/Budget Activity/Serial No. Procurement of Ammunition, Army / 1 / Ammunition			P-1 Line Item Nomenclature: Ctg. 120mm APFSDS M829E3 (E78013)			Weapon System Type:			Date: February 2002		
AMMO Cost Elements	ID CD	FY 00			FY 01			FY 02			FY 03		
		TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
		\$000	x1000	\$	\$000	x1000	\$	\$000	x1000	\$	\$000	x1000	\$
AMMUNITION HARDWARE													
Complete Round								28230	5	6273	33464	8	4081
SubTotal AMMO Hardware								28230			33464		
Production Support Costs													
Production Engineering								2613			2500		
Quality Assurance								750			775		
Acceptance Testing								1970			2015		
SubTotal Prod. Support								5333			5290		
COST - Nonrecurring													
First Article Testing								785					
Value Engineering/ECP's								1000			1500		
SubTotal COST - Nonrecurring								1785			1500		
Total								35348			40254		

Exhibit P-5a, Budget Procurement History and Planning

Date:
February 2002

Appropriation/Budget Activity/Serial No:
Procurement of Ammunition, Army / 1 / Ammunition

Weapon System Type:

P-1 Line Item Nomenclature:
Ctg, 120mm APFSDS M829E3 (E78013)

WBS Cost Elements:	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY Units	Unit Cost \$	Specs Avail Now?	Date Revsn Avail	RFP Issue Date
Complete Round										
FY 2002	Alliant Techsystems Minneapolis, MN	SS/FP	ARDEC	Feb-02	Oct-02	5	6273	Yes	No	
FY 2003	Alliant Techsystems Minneapolis, MN	SS/FP	ARDEC	Dec-02	Sep-03	8	4081	Yes	Nov-02	

REMARKS:

FY 01 / 02 BUDGET PRODUCTION SCHEDULE							P-1 Item Nomenclature: Ctg, 120mm APFSDS M829E3 (E78013)													Date: February 2002										
COST ELEMENTS	MFR	FY	SERV	PROC QTY Units	ACCEP PRIOR TO 1 OCT	BAL DUE AS OF 1 OCT	Fiscal Year 01													Fiscal Year 02						L A T E R				
							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
Complete Round																														
	1	FY 02	A	5	0	5																							5	
	1	FY 03	A	8	0	8																							8	
	1	FY 04	A	8	0	8																							8	
	2	FY 05	A	8	0	8																							8	
	2	FY 06	A	10	0	10																							10	
	2	FY 07	A	10	0	10																							10	
Total				49		49																							49	
							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	ADMINLEAD TIME		MFR After 1 Oct	TOTAL After 1 Oct	REMARKS																			
		MIN.	1-8-5	MAX.			Prior 1 Oct	After 1 Oct																						
1	Alliant Techsystems, Minneapolis, MN	1.00	1.50	2.00	0	1	INITIAL	3	5	8	13																			
							REORDER	3	3	9	12																			
2	TBS	1.00	1.50	2.00	0	2	INITIAL	3	4	10	14																			
							REORDER	3	3	10	13																			
							INITIAL																							
							REORDER																							
							INITIAL																							
							REORDER																							
							INITIAL																							
							REORDER																							

Exhibit P-40, Budget Item Justification Sheet

Date:

February 2002

Appropriation/Budget Activity/Serial No:
Procurement of Ammunition, Army /1/Ammunition

P-1 Item Nomenclature
CTG ARTY 75MM BLANK M337A1 (E15200)

Program Elements for Code B Items:

Code:
A

Other Related Program Elements:

	Prior Years	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	To Complete	Total Prog
Proc Qty	782	38	64	46	38	101	96	47	46	93		1351
Gross Cost	16.6	1.4	2.5	1.8	1.8	4.2	4.0	2.1	2.1	4.2		40.7
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	16.6	1.4	2.5	1.8	1.8	4.2	4.0	2.1	2.1	4.2		40.7
Initial Spares												
Total Proc Cost	16.6	1.4	2.5	1.8	1.8	4.2	4.0	2.1	2.1	4.2		40.7
Flyaway U/C												
Wpn Sys Proc U/C												

Description:

The 75MM blank cartridge is used on the Pack 75 howitzer for ceremony, parade, and training purposes. The cartridge consists of a brass aluminum cartridge case containing loosely packed black powder and a press-fitted percussion primer. A fiber wad is inserted over the black powder and a polystyrene closing cap is cemented in place with a polyster resin adhesive. This item is Code A, approved for service use.

Justification:

This is a training unique item; not used in combat. FY 2003 procurements supports residential and VIP salutation, simulated firing, and annual peacetime training.

TYPE CLASSIFICATION DATE:

1975

ACQUISITION MANAGER:

OSC, Rock Island, Ill

Exhibit P-40, Budget Item Justification Sheet

Date:

February 2002

Appropriation/Budget Activity/Serial No:
Procurement of Ammunition, Army /1/Ammunition

P-1 Item Nomenclature
CTG ARTY 105MM DPICM M915 (E53500)

Program Elements for Code B Items:

Code:
B

Other Related Program Elements:

	Prior Years	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	To Complete	Total Prog
Proc Qty	9		3							2		14
Gross Cost	22.4		12.4	7.0						6.1		47.9
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	22.4		12.4	7.0						6.1		47.9
Initial Spares												
Total Proc Cost	22.4		12.4	7.0						6.1		47.9
Flyaway U/C												
Wpn Sys Proc U/C												

Description:

The 105mm Dual Purpose Improved Conventional Munition (DPICM) is the extended range round for the M119A1 Howitzer. This cartridge incorporates the M200 propelling charge and projectile containing a sub-munition payload of 42 DPICM M80 grenades. The projectiles utilize a one-piece, all-steel body/ogive assembly which is scalloped to contain the cargo without additional ancillary hardware (keys, splines, spacers, etc.). Projectile functioning is the same as the 155mm M483A1 Improved Conventional Munition (ICM) round. The M80 is a 1.22 inch diameter fragmentation shaped charge grenade optimized for the 105mm system. It uses a post embossed rhombus fragmentation pattern for superior anti-personnel performance. In response to the problem of hazardous battlefield duds, the M80 grenade will be the first ICM bomblet to utilize self destruct fuzing. This item is Code B, not approved for service use.

Justification:

Funding provides Government engineering and support, surveillance and acquisition of high rate manufacturing equipment associated with production of the M234 self-destruct fuzes necessary to complete prior year M915 deliveries.

Type Classification Date: TC-Low Rate Production March 1998; TC Standard July 2004

Acquisition Manager: PM ARMS

Exhibit P-5, Weapon AMMO Cost Analysis		Appropriation/Budget Activity/Serial No. Procurement of Ammunition, Army / 1 / Ammunition			P-1 Line Item Nomenclature: CTG ARTY 105MM DPICM M915 (E53500)			Weapon System Type:			Date: February 2002			
AMMO Cost Elements	ID CD	FY 00			FY 01			FY 02			FY 03			
		TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	
		\$000	x1000	\$	\$000	x1000	\$	\$000	x1000	\$	\$000	x1000	\$	
AMMUNITION HARDWARE	B													
Load, Assemble, and Pack														
Projectile Metal Parts														
Grenade Body Assembly														
Fuzes, XM234 Grenade Self Destruct														
Ctg Case XM217														
Container PA117/PA112														
Other Hardware														
SubTotal AMMO Hardware														
Production Support Costs														
Production Engineering					2288									
SubTotal Prod. Support					2288									
COST - Nonrecurring														
High Rate Equipment					658									
Warm Line Preservation					2229									
Predictive Surveillance					276									
PAX 2A Process Maturation					1500									
SubTotal COST - Nonrecurring					4663									
Total					6951									

Exhibit P-40, Budget Item Justification Sheet

Date:

February 2002

Appropriation/Budget Activity/Serial No:
Procurement of Ammunition, Army /1/Ammunition

P-1 Item Nomenclature
CTG ARTY 105MM M927 (E93300)

Program Elements for Code B Items:

Code:

Other Related Program Elements:

	Prior Years	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	To Complete	Total Prog
Proc Qty		1717		1949								3666
Gross Cost		5.0	0.3	3.0	0.0							8.2
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)		5.0	0.3	3.0	0.0							8.2
Initial Spares												
Total Proc Cost		5.0	0.3	3.0	0.0							8.2
Flyaway U/C												
Wpn Sys Proc U/C												

Description:

The CTG 105MM High Explosive Rocket Assisted (HERA) M927 is a semi-fixed cartridge which includes the M14B4 Cartridge Case, M28 Percussion Primer, M67 Prop Charge and Rocket Assisted Projectile. The round is shipped unfuzed and is compatible with the M739A1 PD, M732A2 VT, M582A1 MT, and M767 ETSQ fuzes. It is a zone 7 extended range cartridge designed to deliver a TNT loaded, high explosive warhead at medium to intermediate ranges. It can be fired rocket-on or rocket-off. The M927 warhead, when detonated, produces blast, fragmentation and cratering. The M927 can be fired from the M101A1, M102, and M119A1 howitzers. This item is Code A, approved for service use.

Justification:

The M927 is a training standard item. Procurement supports training and war reserve requirements for National Guard units. FY 2002 procurement of \$14,000 supports Engineering in Support of Production (ESIP).

TYPE CLASSIFICATION DATE:

1994

ACQUISITION MANAGER:

OSC, Rock Island, Ill

Exhibit P-40, Budget Item Justification Sheet

Date:

February 2002

Appropriation/Budget Activity/Serial No:
Procurement of Ammunition, Army /1/Ammunition

P-1 Item Nomenclature
CTG ARTY 105MM ILLUM M314 SERIES (E21700)

Program Elements for Code B Items:

Code:
A

Other Related Program Elements:

	Prior Years	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	To Complete	Total Prog
Proc Qty	4112		11		6	6	11	15	16	16		4193
Gross Cost	255.1		7.7	0.4	5.0	5.2	9.2	14.3	15.4	15.6		327.9
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	255.1		7.7	0.4	5.0	5.2	9.2	14.3	15.4	15.6		327.9
Initial Spares												
Total Proc Cost	255.1		7.7	0.4	5.0	5.2	9.2	14.3	15.4	15.6		327.9
Flyaway U/C												
Wpn Sys Proc U/C												

Description:

The 105MM M314 Illumination Cartridge is used to illuminate a designated target area. It has a hollow steel forged projectile with a streamlined ogive, gliding metal rotating band, and a pinned base plug. The projectile cavity contains the expelling charge, illuminating canister, and parachute assembly. The projectile is assembled with a MTSQ fuze. The round is fired in the M101, M101A1, M102 and M119 Howitzers. This item is Code A, approved for service use.

Justification:

Procurement supports the acquisition of training and war reserve stockpile in accordance with Department of Defense guidance. FY 2003 procurement supports annual peacetime training and builds a depot level in accordance with the Army's procurement goals.

TYPE CLASSIFICATION DATE: 1QFY70

ACQUISITION MANAGER: OSC, Rock Island, Ill

Exhibit P-5, Weapon AMMO Cost Analysis		Appropriation/Budget Activity/Serial No. Procurement of Ammunition, Army / 1 / Ammunition			P-1 Line Item Nomenclature: CTG ARTY 105MM ILLUM M314 SERIES (E21700)			Weapon System Type:			Date: February 2002		
AMMO Cost Elements	ID CD	FY 00			FY 01			FY 02			FY 03		
		TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
		\$000	x1000	\$	\$000	x1000	\$	\$000	x1000	\$	\$000	x1000	\$
AMMUNITION HARDWARE													
Load, Assemble, and Pack								3005	6	483.62	3190	6	504.90
Proj 105 mm M314A2E1								914	6	144.25	971	6	150.57
*Ctg Case Steel M14B4								83	6	13.03	84	6	13.03
Charge Prop								198	6	31.24	212	6	32.90
*Prop M1 SP (LB)								38	4	9.44	39	4	9.44
*Prop M1 MP (LB)								63	14	4.57	64	14	4.57
Primer 28B2								318	12	25.86	343	13	27.42
*Fuze Artillery Mech Time M577								241	6	38.71	245	6	38.71
Fuze Artillery Elec Time M762A1													
Container Fiber M105A3													
SubTotal AMMO Hardware								4860			5148		
Production Support Costs													
Production Engineering					400			454			420		
Quality Assurance								14			9		
Acceptance Testing								56			56		
Interim Transportation								3					
Industrial Stock Support								40			7		
SubTotal Prod. Support					400			567			492		
COST - Nonrecurring													
* Government Furnished Material								-425			-432		
SubTotal COST - Nonrecurring													
Total					400			5002		804.90	5208		824.12

Exhibit P-5a, Budget Procurement History and Planning

Date:
February 2002

Appropriation/Budget Activity/Serial No: Procurement of Ammunition, Army / 1 / Ammunition		Weapon System Type:			P-1 Line Item Nomenclature: CTG ARTY 105MM ILLUM M314 SERIES (E21700)					
WBS Cost Elements:	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY x1000	Unit Cost \$	Specs Avail Now?	Date Revsn Avail	RFP Issue Date
Load, Assemble, and Pack										
FY 2002	TBS	C/FP	OSC, Rock Island, IL	Apr 2002	Jun 2003	6	483.62	Y		
FY 2003	TBS	C/FP	OSC, Rock Island, IL	Mar 2003	May 2004	6	504.90	Y		
Proj 105 mm M314A2E1										
FY 2002 **	TBS	C/FP	OSC, Rock Island, IL	Apr 2002	Mar 2003	6	144.25	Y		
FY 2003 **	TBS	C/FP	OSC, Rock Island, IL	Mar 2003	Mar 2004	6	150.57	Y		
*Ctg Case Steel M14B4										
FY 2002	Stock Issue	N/A	N/A	N/A	N/A	6				
FY 2003	Stock Issue	N/A	N/A	N/A	N/A	6				
Charge Prop										
FY 2002	TBS	C/FP	OSC, Rock Island, IL	Apr 2002	Mar 2003	6	31.24	Y		
FY 2003	TBS	C/FP	OSC, Rock Island, IL	Mar 2003	Feb 2004	6	32.90	Y		
*Prop M1 SP (LB)										
FY 2002	Stock Issue	N/A	N/A	N/A	N/A	4				
FY 2003	Stock Issue	N/A	N/A	N/A	N/A	4				

REMARKS: TBS - To Be Selected
 *Government Furnished Material
 **Pacing Component

Exhibit P-5a, Budget Procurement History and Planning

Date:
February 2002

Appropriation/Budget Activity/Serial No: Procurement of Ammunition, Army / 1 / Ammunition		Weapon System Type:			P-1 Line Item Nomenclature: CTG ARTY 105MM ILLUM M314 SERIES (E21700)					
WBS Cost Elements:	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY x1000	Unit Cost \$	Specs Avail Now?	Date Revsn Avail	RFP Issue Date
*Prop M1 MP (LB)										
FY 2002	Stock Issue	N/A	N/A	N/A	N/A	14				
FY 2003	Stock Issue	N/A	N/A	N/A	N/A	14				
Primer 28B2										
FY 2002	TBS	C/FP	OSC, Rock Island, IL	Apr 2002	Mar 2003	12	25.86	Y		
FY 2003	TBS	C/FP	OSC, Rock Island, IL	Mar 2003	Feb 2004	13	27.42	Y		
*Fuze Artillery Mech Time M577										
FY 2002	Stock Issue	N/A	N/A	N/A	N/A	6				
FY 2003	Stock Issue	N/A	N/A	N/A	N/A	6				

REMARKS: TBS - To Be Selected
 *Government Furnished Material
 **Pacing Component

Exhibit P-40, Budget Item Justification Sheet

Date:

February 2002

Appropriation/Budget Activity/Serial No:
Procurement of Ammunition, Army /1/Ammunition

P-1 Item Nomenclature
PROJ ARTY 155MM SMOKE WP M825 (E67800)

Program Elements for Code B Items:

Code:
A

Other Related Program Elements:

	Prior Years	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	To Complete	Total Prog
Proc Qty	460											460
Gross Cost	218.3		10.3	4.6								233.2
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	218.3		10.3	4.6								233.2
Initial Spares												
Total Proc Cost	218.3		10.3	4.6								233.2
Flyaway U/C												
Wpn Sys Proc U/C												

Description:

This is a materiel change to the M825 series 155MM White Phosphorous (WP) smoke projectile which is designed to be ballistically similar to the M483A1 family of projectiles and is compatible with all current and developmental U.S. 155MM artillery weapon systems. The M825 series projectile is required to provide fire support to forward area troops and equipment. Artillery delivered smoke screens are required in combat situations to support maneuver forces by reducing the effectiveness of enemy visual observation. The M825 series projectile consists of a modified M483A1 carrier, a felt wedge payload, a base, and a separately issued fuze. The modified carrier uses steel instead of the standard M483A1 fiber glass wrap about the circumference of the projectile carrier to offset the low density of the payload. The payload consists of 116 WP soaked felt wedges in a hermetically sealed canister positioned in the projectile body between the ogive and the base. The canister is a cylinder of thin, rolled steel to which flat steel ends are welded. Either a mechanical or electronic time fuze is used to detonate the expulsion charge setting off a chain reaction resulting in the expulsion, ignition, and dissemination of the felt wedges thus creating the desired smoke screen. This item is Code A, approved for service use.

Justification:

This is a training standard item used in both training and combat. Procurement supports an urgently needed materiel change to correct current design defects that result in a high malfunction rate which threatens the safety of the using unit. The purpose of the materiel change is to test an improved design to allow resumption of prior year production and subsequent renovation of existing stocks. Renovation of these stocks is required to support annual peacetime training requirements and build a war reserve inventory in accordance with the Army's procurement goals.

TYPE CLASSIFICATION DATE: 1982

ACQUISITION MANAGER: OSC, Rock Island, Ill

Exhibit P-40, Budget Item Justification Sheet

Date:

February 2002

Appropriation/Budget Activity/Serial No:
Procurement of Ammunition, Army /1/Ammunition

P-1 Item Nomenclature
CTG ARTY 105MM HE M1 W/O FUZE (E21501)

Program Elements for Code B Items:

Code:
A

Other Related Program Elements:

	Prior Years	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	To Complete	Total Prog
Proc Qty	103232											103232
Gross Cost	2234.7					25.2			25.2	25.2		2310.3
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	2234.7					25.2			25.2	25.2		2310.3
Initial Spares												
Total Proc Cost	2234.7					25.2			25.2	25.2		2310.3
Flyaway U/C												
Wpn Sys Proc U/C												

Description:

The 105mm HE M1 cartridge contains high explosive (either Comp B or TNT) and is used for fragmentation, blast, and mining in support of ground troops and armored columns. The round is loaded with an M67 propellant charge which consists of seven numbered increment bags tied together in numerical order. Projectile functioning is dependent upon the fuze used and may function on impact (instantaneous or delay), above ground at a predetermined height or in proximity to the target area. Fuze function detonates the HE projectile filler resulting in projectile fragmentation and blast. Range varies from 3510 meters to 11270 meters, depending on the number of charge bags used. This item is Code A, approved for service use.

Justification:

This program will accomplish the remanufacture of 105mm HE by replacing propellant with alternative modular charge, to be accomplished through an alternative engineering approach. This is a training standard item used in training and combat. FY 2003 procurement supports annual peacetime training and builds a depot level in accordance with the Army's procurement goals.

TYPE CLASSIFICATION DATE: 1966

ACQUISITION MANAGER: OSC, Rock Island, Ill

Cost of War funding to allow full training of troops to meet standards is provided as follows:

FY 2003 \$ 1.6 million
 FY 2004 \$15.0 million
 FY 2005 \$15.0 million
 FY 2006 \$15.0 million
 FY 2007 \$15.0 million

Exhibit P-40, Budget Item Justification Sheet

Date:

February 2002

Appropriation/Budget Activity/Serial No:
Procurement of Ammunition, Army /1/Ammunition

P-1 Item Nomenclature
PROJECTILE 155 MILLIMETER DP BASEBLED M864 P71692 (E68500)

Program Elements for Code B Items:

Code:
A

Other Related Program Elements:

	Prior Years	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	To Complete	Total Prog
Proc Qty	905											905
Gross Cost	757.4					22.3	35.0	40.0	40.0	40.0		934.7
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	757.4					22.3	35.0	40.0	40.0	40.0		934.7
Initial Spares												
Total Proc Cost	757.4					22.3	35.0	40.0	40.0	40.0		934.7
Flyaway U/C												
Wpn Sys Proc U/C												

Description:

The 155mm Recap program funds the remanufacture and retrofit of M864 Basebleed Extended Range Dual Purpose Improved Conventional Munition (ER-DPICM) artillery projectiles (described below) in order to replenish an M864 DPICM shortfall, establish a DPICM production capability in the U.S. and address Unexploded Ordnance (UXO) concerns. The program strategy is to download M42 and M46 DPICM grenades from M483 projectiles, remove existing M223 grenade fuzes and incorporate newly developed M223E1 Pyrotechnic Self-Destruct Fuzes (SDFs) to greatly reduce the likelihood of UXO on the battlefield as evidenced with the use of DPICM during Operation Desert Storm. New projectile M864 metal parts and basebleed units will be built. The new rounds will be loaded with the "recapped" grenades (M42E3/M46E3), and will also include the application of an Extended Range Ordnance (ERO) obturator for increased gun tube life.

The current M864 projectile consists of three components: An ogive, containing an expulsion charge (or self registration charge) at the base of the fuze well; the warhead, a payload of 72 M42/M46 DPICM grenades; and a solid propellant baseburn unit containing a composite propellant grain and igniter. The propellant grain is ignited by the hot propellant charge gases in the gun chamber and self sustained by the igniter. Burning continues for approximately thirty seconds, during which time significant base drag reduction is achieved resulting in extended range. The M864 is compatible with the M109 series Self-Propelled Howitzers (including the M109A6 Paladin), the M198 Towed Howitzer, the Joint Lightweight 155mm and Crusader. The round is compatible with the M203A1 maximum charge and the Modular Artillery Charge System (MACS). This item is Code A, approved for service use.

Justification:

The FY03 procurement will remanufacture and retrofit M864 Basebleed ER-DPICM projectiles.

Acquisition Manager: PM ARMS

Type Classification Date: December 1987

Exhibit P-40, Budget Item Justification Sheet

Date:

February 2002

Appropriation/Budget Activity/Serial No:
Procurement of Ammunition, Army /1/Ammunition

P-1 Item Nomenclature
PROJ ARTY 155MM HE M795 (E66800)

Program Elements for Code B Items:

Code:
A

Other Related Program Elements:

	Prior Years	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	To Complete	Total Prog
Proc Qty	364		20		5					48		437
Gross Cost	179.8		11.0		2.5					25.9		219.1
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	179.8		11.0		2.5					25.9		219.1
Initial Spares												
Total Proc Cost	179.8		11.0		2.5					25.9		219.1
Flyaway U/C												
Wpn Sys Proc U/C												

Description:

The M795 projectile consists of 23.8 pounds of TNT explosive loaded into a 78.1 pound high fragmentation steel body assembly. The projectile is fitted with a protective shock attenuating lifting plug at the nose and a grommet which protects the rotating band during shipping and handling. The projectile can use several different fuzes (impact, mechanical time and short intrusion proximity). The M795 supplements the currently stockpiled M107. It will be used for conventional fire support for harassment and interdiction, fragmentation, mining and blast effect. It is also used as a registration round for the M483A1 family of cargo. It provides greater range and effectiveness than the M107, which cannot be fired at top zone with the M203A1 (Zone 8) charge. This item is Code A, approved for service use.

Justification:

The M795 will support the following howitzers: M198, M109 Series, including Paladin, and the Trilateral FH70 and Crusader. This procurement builds war reserve inventory in accordance with the Army's procurement goals.

TYPE CLASSIFICATION DATE: February 1982

Acquisition Manager: PM ARMS

Exhibit P-40, Budget Item Justification Sheet

Date:

February 2002

Appropriation/Budget Activity/Serial No:
Procurement of Ammunition, Army /1/Ammunition

P-1 Item Nomenclature
REMOTE AREA DENIAL ARTILLERY MUNITION (RADAM) (E67505)

Program Elements for Code B Items:

Code:
A

Other Related Program Elements:

	Prior Years	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	To Complete	Total Prog
Proc Qty					48							48
Gross Cost			8.2	0.1	23.1							31.3
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)			8.2	0.1	23.1							31.3
Initial Spares												
Total Proc Cost			8.2	0.1	23.1							31.3
Flyaway U/C												
Wpn Sys Proc U/C												

Description:

The Remote Area Denial Artillery Munition (RADAM) projectile, is a single shot artillery munition used with 155mm howitzers. The RADAM uses the existing Area Denial Artillery Munition (ADAM) and Remote Anti-Armor Munition (RAAM) submunitions to emplace artillery-delivered minefields to delay, disrupt, destroy and deny the enemy the use of certain terrain. Each RADAM projectile will contain anti-personnel and anti-armor submunitions that will self-destruct at a preset period of time. No modifications will be made to the submunitions. The RAAMS anti-armor mines accomplish the area denial objective of the minefield. The anti-armor mine arms after coming to rest on the ground. Any threat armored object passing over the mine will cause it to initiate and damage or destroy the vehicle. The ADAM anti-personnel submunitions prevent enemy personnel from neutralizing/breaching the RAAMS in the minefield after the minefield has been emplaced. When disturbed by enemy movement, the trip wire will activate the explosive sequence. This system supports the Legacy transition path of the Transformation Campaign Plan (TCP). This item is Code A, approved for service use.

Justification:

The FY03 procurement will buy 48,000 RADAM projectiles to emplace artillery delivered minefields in order to delay, disrupt, destroy and deny enemy use of certain terrain.

TYPE CLASSIFICATION DATE: 25 October 2000

INITIAL OPERATIONAL CAPABILITY: (Projected) March 2003

ACQUISITION MANAGER: Office Project Manager, Mines Countermines and Demolitions (OPM-MCD)

Exhibit P-5, Weapon AMMO Cost Analysis		Appropriation/Budget Activity/Serial No. Procurement of Ammunition, Army / 1 / Ammunition			P-1 Line Item Nomenclature: REMOTE AREA DENIAL ARTILLERY MUNITION (RADAM) (E67505)			Weapon System Type:			Date: February 2002		
AMMO Cost Elements	ID CD	FY 00			FY 01			FY 02			FY 03		
		TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
		\$000	x1000	\$000	\$000	x1000	\$000	\$000	x1000	\$000	\$000	x1000	\$000
Hardware													
Load, Assemble & Pack Complete Round Long Lead Components								20626	48	427			
Subtotal								20626					
Production Support													
Production Engineering								1030					
Quality Assurance								300					
Acceptance Testing								100					
Subtotal								1430					
Non-Recurring Costs													
Storage and Handling							53	700					
Tooling								300					
Subtotal							53	1000					
Total							53	23056					

Exhibit P-5a, Budget Procurement History and Planning

Date:
February 2002

Appropriation/Budget Activity/Serial No: Procurement of Ammunition, Army / 1 / Ammunition		Weapon System Type:			P-1 Line Item Nomenclature: REMOTE AREA DENIAL ARTILLERY MUNITION (RADAM) (E67505)					
WBS Cost Elements:	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY x1000	Unit Cost \$	Specs Avail Now?	Date Revsn Avail	RFP Issue Date
Load, Assemble & Pack Complete Round FY 2002	Day&Zimmerman (LSAAP) Texarkana TX	Option	OSC	Mar 02	Nov 03	48	427	Yes		

REMARKS: Note: * FY00 funding used for procurement of long-lead components and support.

Exhibit P-40, Budget Item Justification Sheet

Date: February 2002

Appropriation/Budget Activity/Serial No:
Procurement of Ammunition, Army /1/Ammunition

P-1 Item Nomenclature
PROJ ARTY 155MM HE M107 (E27601)

Program Elements for Code B Items:

Code:
A

Other Related Program Elements:

	Prior Years	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	To Complete	Total Prog
Proc Qty	26605	243	114	204	223	155	99	148	203	220		28214
Gross Cost	950.7	41.9	24.1	45.5	41.1	30.2	21.2	31.6	43.0	47.0		1276.3
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	950.7	41.9	24.1	45.5	41.1	30.2	21.2	31.6	43.0	47.0		1276.3
Initial Spares												
Total Proc Cost	950.7	41.9	24.1	45.5	41.1	30.2	21.2	31.6	43.0	47.0		1276.3
Flyaway U/C												
Wpn Sys Proc U/C												

Description:

This is a multi-purpose high explosive projectile fired from 155MM howitzers. It is used for blast effect and fragmentation. The projectile may be loaded with either 14.6 pounds of TNT or 15.4 pounds of composition B explosives. The normal cavity model will not accommodate a proximity-type fuze. The deep-cavity model has a supplementary charge of .3 pounds which may be removed to allow the use of proximity fuzes. This item is Code A, approved for service use.

Justification:

This is a training standard item used in both training and combat. The FY 2003 procurement supports annual peacetime training requirements and builds war reserve inventory in accordance with the Army's procurement goals.

TYPE CLASSIFICATION DATE: 1958

ACQUISITION MANAGER: OSC, Rock Island, Ill

Exhibit P-5, Weapon AMMO Cost Analysis		Appropriation/Budget Activity/Serial No. Procurement of Ammunition, Army / 1 / Ammunition			P-1 Line Item Nomenclature: PROJ ARTY 155MM HE M107 (E27601)			Weapon System Type:			Date: February 2002		
AMMO Cost Elements	ID CD	FY 00			FY 01			FY 02			FY 03		
		TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
		\$000	x1000	\$	\$000	x1000	\$	\$000	x1000	\$	\$000	x1000	\$
AMMUNITION HARDWARE													
Load, Assemble, and Pack					14521	204	71.33	14595	223	65.55	10705	155	68.90
Proj M107 MPTS					21666	208	104.34	23787	227	104.74	16598	158	104.74
*Comp B Type 1 Grade A (LB)								8936	3807	2.35	6235	2657	2.35
*TNT Type 1 Flake (LB)					5178	3298	1.57						
*Plug, Shock Attenuating					363	208	1.75	397	227	1.75	277	158	1.75
Grommet					375	210	1.79	280	229	1.22	302	160	1.89
*Supplemental Charge					747	208	3.60	818	227	3.60	570	158	3.60
Reclaim OP F/Supp Chg					1158	208	5.58	1111	227	4.89	808	158	5.10
SubTotal AMMO Hardware					44008			49924			35495		
Production Support Costs													
Production Engineering					680			613			546		
Quality Assurance					11			12			7		
Acceptance Testing					1076			250			1184		
Interim Transportation					372			50					
Industrial Stock Support					638			414			50		
SubTotal Prod. Support					2777			1339			1787		
COST - Nonrecurring													
*Government Furnished Material					-6288			-10151			-7082		
Engineering Study					4957								
SubTotal COST - Nonrecurring													
Total					45454		223.28	41112		184.65	30200		194.39

Exhibit P-5a, Budget Procurement History and Planning

Date:
February 2002

Appropriation/Budget Activity/Serial No: Procurement of Ammunition, Army / 1 / Ammunition		Weapon System Type:			P-1 Line Item Nomenclature: PROJ ARTY 155MM HE M107 (E27601)					
WBS Cost Elements:	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY x1000	Unit Cost \$	Specs Avail Now?	Date Revsn Avail	RFP Issue Date
Load, Assemble, and Pack										
FY 2001	American Ordnance (IAAP) Middletown, IA	SS/FP	OSC, Rock Island, IL	Apr 2001	Jun 2002	204	71.33			
FY 2002	American Ordnance (IAAP) Middletown, IA	SS/FP	OSC, Rock Island, IL	Mar 2002	Jun 2003	223	65.55	Y		
FY 2003	American Ordnance (IAAP) Middletown, IA	SS/FP	OSC, Rock Island, IL	Mar 2003	Mar 2004	155	68.90	Y		
Proj M107 MPTS										
FY 2001 **	Chamberlain Mfg (SCAAP) Scranton, PA	SS/FP	OSC, Rock Island, IL	May 2001	Jan 2002	208	104.34			
FY 2002 **	Chamberlain Mfg (SCAAP) Scranton, PA	SS/FP	OSC, Rock Island, IL	Mar 2002	Jan 2003	227	104.74	Y		
FY 2003 **	Chamberlain Mfg (SCAAP) Scranton, PA	SS/FP	OSC, Rock Island, IL	Mar 2003	Jan 2004	158	104.74	Y		
*Comp B Type 1 Grade A (LB)										
FY 2002	Stock Issue	N/A	N/A	N/A	N/A	3807				
FY 2003	Stock Issue	N/A	N/A	N/A	N/A	2657				
*TNT Type 1 Flake (LB)										
FY 2001	Stock Issue	N/A	N/A	N/A	N/A	3298				
*Plug, Shock Attenuating										
FY 2001	Stock Issue	N/A	N/A	N/A	N/A	208				

REMARKS: TBS - To Be Selected
*Government Furnished Material
** Pacing Component

Exhibit P-5a, Budget Procurement History and Planning

Date:
February 2002

Appropriation/Budget Activity/Serial No: Procurement of Ammunition, Army / 1 / Ammunition		Weapon System Type:			P-1 Line Item Nomenclature: PROJ ARTY 155MM HE M107 (E27601)					
WBS Cost Elements:	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY x1000	Unit Cost \$	Specs Avail Now?	Date Revsn Avail	RFP Issue Date
FY 2002	Stock Issue	N/A	N/A	N/A	N/A	227				
FY 2003	Stock Issue	N/A	N/A	N/A	N/A	158				
Grommet										
FY 2001	LC Industries Hazelhurst, MS	C/FP	OSC, Rock Island, IL	Jul 2001	Nov 2001	210	1.79			
FY 2002	TBS	C/FP	OSC, Rock Island, IL	Mar 2002	Nov 2002	229	1.22	Y		
FY 2003	TBS	C/FP	OSC, Rock Island, IL	Mar 2003	Nov 2003	160	1.89	Y		
*Supplemental Charge										
FY 2001	Stock Issue	N/A	N/A	N/A	N/A	208				
FY 2002	Stock Issue	N/A	N/A	N/A	N/A	227				
FY 2003	Stock Issue	N/A	N/A	N/A	N/A	158				
Reclaim OP F/Supp Chg										
FY 2001	McAlester AAP (MCAAP) McAlester, OK	SS/FP	OSC, Rock Island, IL	Feb 2001	Dec 2001	208	5.58	Y		
FY 2002	McAlester AAP (MCAAP) McAlester, OK	SS/FP	OSC, Rock Island, IL	Feb 2002	Dec 2002	227	4.89	Y		
FY 2003	McAlester AAP (MCAAP) McAlester, OK	SS/FP	OSC, Rock Island, IL	Feb 2003	Dec 2003	158	5.10	Y		

REMARKS: TBS - To Be Selected
*Government Furnished Material
** Pacing Component

Exhibit P-40, Budget Item Justification Sheet

Date:

February 2002

Appropriation/Budget Activity/Serial No:
Procurement of Ammunition, Army /1/Ammunition

P-1 Item Nomenclature
Modular Artillery Charge System (MACS), All Types (E27501)

Program Elements for Code B Items:

Code:
A

Other Related Program Elements:

	Prior Years	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	To Complete	Total Prog
Proc Qty												
Gross Cost			50.0	39.6	71.9	122.4	108.8	99.3	80.1	184.9		757.0
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)			50.0	39.6	71.9	122.4	108.8	99.3	80.1	184.9		757.0
Initial Spares												
Total Proc Cost			50.0	39.6	71.9	122.4	108.8	99.3	80.1	184.9		757.0
Flyaway U/C												
Wpn Sys Proc U/C												

Description:

This budget line item funds MACS, all types.

Non-add Cost of War funding to allow full training of troops to meet standards is provided as follows:

FY 2004 \$44.6 million
 FY 2005 \$46.2 million
 FY 2006 \$52.9 million
 FY 2007 \$66.5 million

Exhibit P-5, Weapon AMMO Cost Analysis		Appropriation/Budget Activity/Serial No. Procurement of Ammunition, Army / 1 / Ammunition			P-1 Line Item Nomenclature: Modular Artillery Charge System (MACS), All Types (E27501)			Weapon System Type:			Date: February 2002			
AMMO Cost Elements		ID CD	FY 00			FY 01			FY 02			FY 03		
			TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
			\$000	x1000	\$	\$000	x1000	\$	\$000	x1000	\$	\$000	x1000	\$
Modular Arty Chg Sys (MACS), M231/M232						39565	490	81	71910	681	106	122411	1188	104
Total					39565				71910			122411		

Exhibit P-40, Budget Item Justification Sheet

Date:

February 2002

Appropriation/Budget Activity/Serial No:
Procurement of Ammunition, Army /1/Ammunition

P-1 Item Nomenclature
MODULAR ARTILLERY CHARGE SYS (MACS), M231/M232 (ER8021)

Program Elements for Code B Items:

Code:

Other Related Program Elements:

	Prior Years	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	To Complete	Total Prog
Proc Qty			515	490	681	1188	1099	1003	801	1849		7626
Gross Cost			50.0	39.6	71.9	122.4	108.8	99.3	80.1	184.9		757.0
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)			50.0	39.6	71.9	122.4	108.8	99.3	80.1	184.9		757.0
Initial Spares												
Total Proc Cost			50.0	39.6	71.9	122.4	108.8	99.3	80.1	184.9		757.0
Flyaway U/C												
Wpn Sys Proc U/C												

Description:

This budget line item funds production of the Modular Artillery Charge System (MACS), intended for use with US 155mm cannon field artillery systems including the M198 and XM777 towed cannon systems, the M109A3/A4/A5 and M109A6 Paladin self-propelled systems, and the XM2001 Crusader system. MACS consists of the M231 "low zone" increment designed to achieve ranges from 3.0 to 11.5 km, the M232 "high zone" increment designed to achieve ranges from 10-40+ km and their associated packaging. Each MACS increment includes propellant, an ignition system, and a combustible case. Performance enhancing additives are included in the M232 "high zone" increment. Packaging permits long-term storage and helps protect the items from unplanned stimuli. This system supports the Legacy-to-Objective transition path of the Transformation Campaign Plan (TCP).

Justification:

This is a training standard item. FY 2003 procurement supports annual peacetime training and testing of Crusader and other lightweight 155mm howitzers to include initial fielding stocks. MACS is required to achieve logistics improvements to 155MM cannon field artillery (to include the XM2001 Crusader system) and operational flexibility, range, rate-of-fire, system accuracy and insensitive munitions (IM) compliance when used in the XM2001 Crusader and other artillery systems. In addition, MACS is less expensive to procure than the current family of artillery propelling charges and is projected to decrease operation and support costs associated with artillery propelling charges at least 10% once fielded.

TYPE CLASSIFICATION DATE: M231 25 Oct 99, M232 8 Aug 01

ACQUISITION MANAGER: PM Crusader

Non-add Cost of War funding to allow full training of troops to meet standards is provided as follows:

FY 2004 446 thousand charges/\$44.6 million
 FY 2005 462 thousand charges/\$46.2 million
 FY 2006 529 thousand charges/\$52.9 million
 FY 2007 665 thousand charges/\$66.5 million

Exhibit P-5, Weapon AMMO Cost Analysis		Appropriation/Budget Activity/Serial No. Procurement of Ammunition, Army / 1 / Ammunition			P-1 Line Item Nomenclature: MODULAR ARTILLERY CHARGE SYS (MACS), M231/M232 (ER8021)			Weapon System Type:			Date: February 2002		
AMMO Cost Elements	ID CD	FY 00			FY 01			FY 02			FY 03		
		TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
		\$000	x1000	\$	\$000	x1000	\$	\$000	x1000	\$	\$000	x1000	\$
Ammunition Hardware													
Load, Assemble and Pack					8060	490	16	16212	681	24	29160	1188	24
Combustible Case Sets					15613	518	31	21750	715	30	35686	1303	27
Propellant (M231 Single Base)					6014	1429	5	4800	1000	5	8583	1637	5
Propellant (M232 Triple Base)								14000	2000	7	26470	3780	7
Ignition System/Spheriodal Propellant					263	39	7	324	47	7	574	82	7
Misc Components					386	20	20	590	31	20	600	30	20
Lap Containers					5303	126	43	7721	151	52	13617	267	51
Sub Total Ammo Hardware					35639			65397			114690		
Production Support Costs													
Production Engineering					2077			2560			2890		
Quality Assurance					200			300			350		
Testing					1200			1420			1323		
Technical Rpt Prep					100			80			90		
Value Engineering					150			185			230		
Fielding								620			1078		
Sub Total Production Support Costs					3727			5165			5961		
Costs- Non Recurring													
Inert Training Devices					199			831			1145		
Software Integration								517			615		
Sub Total Costs Non Recurring					199			1348			1760		
----- Cost of War funding detailed on the P-40 is not included on this form.													
Total					39565			71910			122411		

Exhibit P-5a, Budget Procurement History and Planning

Date:
February 2002

Appropriation/Budget Activity/Serial No: Procurement of Ammunition, Army / 1 / Ammunition		Weapon System Type:			P-1 Line Item Nomenclature: MODULAR ARTILLERY CHARGE SYS (MACS), M231/M232 (ER8021)					
WBS Cost Elements:	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY x1000	Unit Cost \$	Specs Avail Now?	Date Revsn Avail	RFP Issue Date
Load, Assemble and Pack										
FY 2001	American Ordnance Middletown, IA	C-FP	Picatinny Arsenal	Feb-01	Feb-02	490	16	Y		Sep-00
FY 2002	TBS	C-FP	Picatinny Arsenal	Mar-02	Jul-02	681	24	Y		Dec-01
FY 2003	TBS	Option	Picatinny Arsenal	Nov-02	Apr-03	1188	24	Y		Dec-01
Combustible Case Sets										
FY 2001	Armtec Coachella, CA	SS-FP	Picatinny Arsenal	Jan-01	Jul-01	518	31	Y		Oct-00
FY 2002	Armtec Coachella, CA	Option	Picatinny Arsenal	Nov-01	Feb-02	715	30	Y		Oct-00
FY 2003	Armtec Coachella, CA	MYP-1	Picatinny Arsenal	Nov-02	Feb-03	1303	27	Y		Jul-02
Propellant (M231 Single Base)										
FY 2001	Alliant Techsystems Radford, VA	C-FP	Picatinny Arsenal	Dec-00	Oct-01	1429	5	Y		Oct-00
FY 2002	Alliant Techsystems Radford, VA	Option	Picatinny Arsenal	Feb-02	Sep-02	1000	5	Y		Oct-00
FY 2003	TBS	MYP-1	Picatinny Arsenal	Dec-02	Feb-03	1637	5	Y		Sep-02
Propellant (M232 Triple Base)										
FY 2002	Canadian Commercial Corp. Ottawa, Canada	C-FP	Picatinny Arsenal	Feb-02	May-02	2000	7	Y		Aug-01
FY 2003	TBS	C-FP	Picatinny Arsenal	Nov-02	May-03	3780	7	Y		Jul-02

REMARKS: The FY01 LAP contract was awarded under extremely competitive circumstances, resulting in a very low unit cost for FY01. The FY02 LAP unit cost will increase due to the introduction of the M232 model, which is more labor intensive and includes an additional component (wax liner) in the LAP cost. The FY02 LAP Container unit cost increase is due to the introduction of the new M232 model, along with a new corrosion protective coating, which is applied to both the M231 and M232 LAP containers.

Exhibit P-5a, Budget Procurement History and Planning

Date:
February 2002

Appropriation/Budget Activity/Serial No: Procurement of Ammunition, Army / 1 / Ammunition		Weapon System Type:			P-1 Line Item Nomenclature: MODULAR ARTILLERY CHARGE SYS (MACS), M231/M232 (ER8021)					
WBS Cost Elements:	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY x1000	Unit Cost \$	Specs Avail Now?	Date Revsn Avail	RFP Issue Date
Ignition System/Spheriodal Propellant										
FY 2001	Primex St. Marks, FL	SS-FP	Picatinny Arsenal	Dec-00	Feb-01	39	7	Y		Mar-00
FY 2002	Primex St. Marks, FL	SS-FP	Picatinny Arsenal	Nov-01	Feb-02	47	7	Y		Mar-00
FY 2003	Primex St. Marks, FL	SS-FP	Picatinny Arsenal	Nov-02	Feb-03	82	7	Y		Mar-00
Lap Containers										
FY 2001	Conco Louisville, KY	C-FP	Picatinny Arsenal	Jan-01	Apr-01	126	43	Y		Sep-00
FY 2002	TBS	C-FP	Picatinny Arsenal	Mar-02	Apr-02	151	52	Y		Sep-01
FY 2003	TBS	Option	Picatinny Arsenal	Dec-02	Mar-03	267	51	Y		Sep-01

REMARKS: The FY01 LAP contract was awarded under extremely competitive circumstances, resulting in a very low unit cost for FY01. The FY02 LAP unit cost will increase due to the introduction of the M232 model, which is more labor intensive and includes an additional component (wax liner) in the LAP cost. The FY02 LAP Container unit cost increase is due to the introduction of the new M232 model, along with a new corrosion protective coating, which is applied to both the M231 and M232 LAP containers.

Exhibit P-40, Budget Item Justification Sheet

Date: February 2002

Appropriation/Budget Activity/Serial No:
Procurement of Ammunition, Army /1/Ammunition

P-1 Item Nomenclature
ARTILLERY FUZES, ALL TYPES (ER8000)

Program Elements for Code B Items:

Code:

Other Related Program Elements:

	Prior Years	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	To Complete	Total Prog
Proc Qty												
Gross Cost	524.6	5.8	41.7	74.3	56.1	69.2	68.4	68.5	59.4	55.1		1023.1
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	524.6	5.8	41.7	74.3	56.1	69.2	68.4	68.5	59.4	55.1		1023.1
Initial Spares												
Total Proc Cost	524.6	5.8	41.7	74.3	56.1	69.2	68.4	68.5	59.4	55.1		1023.1
Flyaway U/C												
Wpn Sys Proc U/C												

Description:

This budget line includes Artillery Fuzes, All Types

Non-add funding to allow full training of troops to meet standards is provided as follows:

FY 2004 \$21.3 million
 FY 2005 \$32.4 million
 FY 2006 \$34.7 million
 FY 2007 \$41.1 million

Exhibit P-5, Weapon AMMO Cost Analysis		Appropriation/Budget Activity/Serial No. Procurement of Ammunition, Army / 1 / Ammunition			P-1 Line Item Nomenclature: ARTILLERY FUZES, ALL TYPES (ER8000)			Weapon System Type:			Date: February 2002		
AMMO Cost Elements	ID CD	FY 00			FY 01			FY 02			FY 03		
		TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
		\$000	x1000	\$	\$000	x1000	\$	\$000	x1000	\$	\$000	x1000	\$
Fuze Artillery Electric Time M767					2206	55	40.1	8545	134	63.8	20865	153	136.0
Fuze Multi Option					47245	293	161.2	37287	268	139.1	38315	152	270.0
Fuze Arty Elec Time M762					24816	181	137.0	10219	81	126.0	10000	113	127.0
----- Cost of War funding detailed on the P-40 is not included on this form.													
Total					74267			56051			69180		

Exhibit P-40, Budget Item Justification Sheet

Date:

February 2002

Appropriation/Budget Activity/Serial No:
Procurement of Ammunition, Army /1/Ammunition

P-1 Item Nomenclature
FUZE ARTY ELEC TIME M767 (E61200)

Program Elements for Code B Items:

Code:
A

Other Related Program Elements:

	Prior Years	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	To Complete	Total Prog
Proc Qty	404	27	198	40	64	153	134	135	136	141		1432
Gross Cost	61.5	4.0	27.8	2.2	8.5	20.9	18.0	18.1	18.5	18.9		198.2
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	61.5	4.0	27.8	2.2	8.5	20.9	18.0	18.1	18.5	18.9		198.2
Initial Spares												
Total Proc Cost	61.5	4.0	27.8	2.2	8.5	20.9	18.0	18.1	18.5	18.9		198.2
Flyaway U/C												
Wpn Sys Proc U/C												

Description:

The M767A1 Electronic Time (ET) Fuze is used with the 105mm and 155mm cargo carrying artillery projectiles. The M767A1 ET Fuze is a boosted version of the M762A1 ET Fuze. In tandem with the M767A1 Fuze, the M762A1 was qualified via a Materiel Change Program (MCP) on the basic M762 and M767 ET Fuze designs. The MCP improved producibility, upgraded the technology, provided a more robust design, and enhanced the user interface. The M767A1 retains the existing dual setting capability (1) hand set without need for any tool, and (2) remote inductive setting for higher rates of fire. In addition to US requirements, the Fuze will also comply with NATO Rationalization, Standardization, and Interoperability (RSI) agreements for artillery weapon systems. The fuze utilizes a quartz crystal for its time base providing greater accuracy without increased cost. Because of the faster and easier setting methods, employment of the M767A1 Fuze will result in fewer setting errors over the current M767 Fuze as well as over the M582 Mechanical Time Super Quick (MTSQ) Fuze that it replaces. The M767A1 Fuze is also considerably more accurate than the MTSQ, especially over extended ranges. Since the M762A1 and the M767A1 Fuzes are being produced on the same production line, the procurement of the M767A1 will maintain unit cost efficiencies for the entire ET artillery fuze family. This item will be code A, approved for service use.

Justification:

The FY 2003 procurement supports testing, training and war reserve requirements of the family of Improved Conventional Munitions (ICM). The M767A1 will replace the Mechanical Time Fuzes which were phased out in FY 1990. The fuzes are procured on a five-year multi-year contract.

TC Standard: M767 September 1988; M767A1 February 2001

Acquisition Manager: TACOM-ARDEC, Picatinny Arsenal, NJ

Non-add Cost of War funding to allow full training of troops to meet standards is provided as follows:

FY 2004	82 thousand rounds/\$10.5 million
FY 2005	122 thousand rounds/\$15.4 million
FY 2006	115 thousand rounds/\$15.4 million
FY 2007	115 thousand rounds/\$15.5 million

Exhibit P-5, Weapon AMMO Cost Analysis		Appropriation/Budget Activity/Serial No. Procurement of Ammunition, Army / 1 / Ammunition			P-1 Line Item Nomenclature: FUZE ARTY ELEC TIME M767 (E61200)			Weapon System Type:			Date: February 2002		
AMMO Cost Elements	ID CD	FY 00			FY 01			FY 02			FY 03		
		TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
		\$000	x1000	\$	\$000	x1000	\$	\$000	x1000	\$	\$000	x1000	\$
AMMUNITION HARDWARE													
Load, Assemble, and Pack	A				190	40	8	380	64	8	1054	153	7
Fuze Metal Parts - M767A1					1537	40	112	7211	64	112	18360	153	120
Box, Metal, M2A1					13	2	1	56	8	7	31	6	7
SubTotal AMMO Hardware					1740			7647			19445		
Production Support Costs													
Production Engineering					160			470			800		
Quality Assurance					90			59			100		
Acceptance Testing					198			340			496		
Interim Transportation					9			14			12		
SubTotal Prod. Support					457			883			1408		
COST - Nonrecurring													
First Article Testing													
Government Furnished Material					9			15			12		
SubTotal COST - Nonrecurring					9			15			12		
----- Cost of War funding detailed on the P-40 is not included on this form.													
Total					2206		55	8545		134	20865		136

Exhibit P-5a, Budget Procurement History and Planning

Date:
February 2002

Appropriation/Budget Activity/Serial No:
Procurement of Ammunition, Army / 1 / Ammunition

Weapon System Type:

P-1 Line Item Nomenclature:
FUZE ARTY ELEC TIME M767 (E61200)

WBS Cost Elements:	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY x1000	Unit Cost \$	Specs Avail Now?	Date Revsn Avail	RFP Issue Date
Load, Assemble, and Pack										
FY 2001	Bulova	C/MY-1/FP	TACOM-ARDEC	Feb 02	Aug 03	40	8	Yes		
FY 2002	Bulova	C/MY-2/FP	TACOM-ARDEC	Feb 02	Aug 03	64	8	Yes		
FY 2003	Bulova	C/MY-3/FP	TACOM-ARDEC	Jan 03	Apr 04	153	7	Yes		
Fuze Metal Parts - M767A1										
FY 2001	Bulova	C/MY-1/FP	TACOM-ARDEC	Feb 02	Aug 03	40	112	Yes		
FY 2002	Bulova	C/MY-2/FP	TACOM-ARDEC	Feb 02	Aug 03	64	112	Yes		
FY 2003	Bulova	C/MY-3/FP	TACOM-ARDEC	Jan 03	Apr 04	153	120	Yes		

REMARKS: The work for Load, Assemble, and Pack is included within the Fuze Metal Parts contract.

Exhibit P-40, Budget Item Justification Sheet

Date:

February 2002

Appropriation/Budget Activity/Serial No:
Procurement of Ammunition, Army /1/Ammunition

P-1 Item Nomenclature
FUZE ARTY ELEC TIME M762 (E76300)

Program Elements for Code B Items:

Code:
A

Other Related Program Elements:

	Prior Years	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	To Complete	Total Prog
Proc Qty	716			181	81	79	113	73	87	44		1374
Gross Cost	68.7			24.8	10.2	10.0	14.3	14.2	11.0	13.6		166.9
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	68.7			24.8	10.2	10.0	14.3	14.2	11.0	13.6		166.9
Initial Spares												
Total Proc Cost	68.7			24.8	10.2	10.0	14.3	14.2	11.0	13.6		166.9
Flyaway U/C												
Wpn Sys Proc U/C												

Description:

The M762A1 Electronic Time (ET) Fuze is used with the 105mm and 155mm cargo carrying artillery projectiles. In tandem with the M767A1 Fuze, the M762A1 was qualified via a Materiel Change Program (MCP) on the basic M762 and M767 ET Fuze designs. The MCP improved producibility, upgraded the technology, provided a more robust design, and enhanced the user interface. The M762A1 retains the existing dual setting capability: (1) Hand set without need for any tool, and (2) remote inductive setting for higher rates of fire. In addition to the US requirements, the Fuze complies with NATO Rationalization, Standardization and Interoperability (RSI) agreements for artillery weapon systems. The fuze utilizes a quartz crystal for its time base providing greater accuracy without increased cost. Because of the faster setting methods, employment of the M762A1 Fuze will result in fewer setting errors over the current M762 Fuze, as well as over the M577 Mechanical Time Super Quick (MTSQ) Fuze that it replaces. The M762A1 Fuze is also considerably more accurate than the MTSQ, especially over extended ranges. Since the M762A1 and the M767A1 Fuzes are being produced on the same production line, the procurement of the M762A1 will maintain unit cost efficiencies for the entire ET artillery fuze family. This item is code A, approved for service use.

Justification:

The FY 2003 procurement continues to support testing, training and war reserve requirements of the family of Improved Conventional Munitions (ICM). The M762A1 will replace the Mechanical Time Fuzes which were phased out in FY 1990. This procurement is a five year multi-year buy.

TC Standard: M762 - September 1988, M762A1 - February 2001

Acquisition Manager: TACOM-ARDEC, Picatinny Arsenal, NJ

Non-add Cost of War funding to allow full training of troops to meet standards is provided as follows:

FY 2004 89 thousand rounds/\$10.8 million
 FY 2005 143 thousand rounds/\$17.0 million
 FY 2006 152 thousand rounds/\$19.3 million
 FY 2007 202 thousand rounds/\$25.7 million

Exhibit P-5, Weapon AMMO Cost Analysis		Appropriation/Budget Activity/Serial No. Procurement of Ammunition, Army / 1 / Ammunition			P-1 Line Item Nomenclature: FUZE ARTY ELEC TIME M762 (E76300)			Weapon System Type:			Date: February 2002		
AMMO Cost Elements	ID CD	FY 00			FY 01			FY 02			FY 03		
		TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
		\$000	x1000	\$	\$000	x1000	\$	\$000	x1000	\$	\$000	x1000	\$
AMMUNITION HARDWARE													
Fuze, ET, M762A1					21200	181	117	9037	81	112	8909	79	113
Box, Metal, M2A1					149	21	7	71	10	4	103	30	4
SubTotal AMMO Hardware					21349			9108			9012		
Production Support Costs													
Production Engineering					2034			563			500		
Quality Assurance					475			168					
Acceptance Testing					782			337			422		
Interim Transportation					46			22			36		
SubTotal Prod. Support					3337			1090			958		
COST - Nonrecurring													
First Article Testing					100								
Government Furnished Material					30			21			30		
SubTotal COST - Nonrecurring					130			21			30		
----- Cost of War funding detailed on the P-40 is not included on this form.													
Total					24816		137	10219		126	10000		127

Exhibit P-5a, Budget Procurement History and Planning

Date:
February 2002

Appropriation/Budget Activity/Serial No: Procurement of Ammunition, Army / 1 / Ammunition		Weapon System Type:			P-1 Line Item Nomenclature: FUZE ARTY ELEC TIME M762 (E76300)					
WBS Cost Elements:	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY x1000	Unit Cost \$	Specs Avail Now?	Date Revsn Avail	RFP Issue Date
Fuze, ET, M762A1										
FY 2001	Bulova	MYP-1/FP	TACOM-ARDEC	Sep 01	Apr 02	181	117	Yes		
FY 2002	Bulova	MYP-2/FP	TACOM-ARDEC	Feb 02	Dec 02	81	112	Yes		
FY 2003	Bulova	MYP-3/FP	TACOM-ARDEC	Jan 03	Jul 03	79	113	Yes		

REMARKS: This is a five-year multi-year procurement.

Exhibit P-40, Budget Item Justification Sheet

Date:

February 2002

Appropriation/Budget Activity/Serial No:
Procurement of Ammunition, Army /1/Ammunition

P-1 Item Nomenclature
FUZE MULTI OPTION (ER8017)

Program Elements for Code B Items:

Code:

Other Related Program Elements:

	Prior Years	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	To Complete	Total Prog
Proc Qty		5	50	161	139	142	137	138	114	86		972
Gross Cost		1.5	14.0	47.2	37.3	38.3	36.1	36.2	30.0	22.7		263.3
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)		1.5	14.0	47.2	37.3	38.3	36.1	36.2	30.0	22.7		263.3
Initial Spares												
Total Proc Cost		1.5	14.0	47.2	37.3	38.3	36.1	36.2	30.0	22.7		263.3
Flyaway U/C												
Wpn Sys Proc U/C												

Description:

The Multi Option Fuze for Artillery (MOFA) is compatible with all current bulk-filled bursting field artillery ammunition fired in 105mm and 155mm cannon systems including M109A6 (Paladin), M198, XM777 Lightweight 155mm Towed Howitzer, and XM2001 Crusader. MOFA provides proximity, precision time, delay and impact functions in a single fuze. The inductive fuze set feature optimizes MOFA for use with automated ammunition handling equipment. MOFA combines proven subassemblies such as the safe and arm device with modern reserve batteries and Monolithic Millimeter/Microwave Integrated Circuit technology to affordably achieve enhanced performance, producibility and safety. This system supports the Legacy-to-Objective transition path of the Transformation Campaign Plan.

Justification:

The FY03 procurement builds war reserve inventory in accordance with the Army's procurement goals. Expeditious procurement of MOFA is essential to support currently fielded 155mm artillery systems.

Acquisition Manager: PM ARMS

Type Classification Date: 13 Dec 1999

Exhibit P-5, Weapon AMMO Cost Analysis		Appropriation/Budget Activity/Serial No. Procurement of Ammunition, Army / 1 / Ammunition			P-1 Line Item Nomenclature: FUZE MULTI OPTION (ER8017)			Weapon System Type:			Date: February 2002		
AMMO Cost Elements	ID CD	FY 00			FY 01			FY 02			FY 03		
		TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
		\$000	x1000	\$	\$000	x1000	\$	\$000	x1000	\$	\$000	x1000	\$
AMMUNITION HARDWARE													
M782 Complete Fuze					40802	161	253	31761	139	228	31305	142	220
PBX N-5 Explosives, lbs. (GFM)					528	15	36						
M2A1 AMMO Cans (GFM)					188	28	7	200	18	11	200	18	11
SubTotal AMMO Hardware					41518			31961			31505		
Production Support Costs													
Production Engineering					5057			3281			5218		
Logistics and Packaging								115			119		
Quality Assurance, Safety and Environ.					70			230			237		
Lot Acceptance Testing								1200			1236		
SubTotal Prod. Support					5127			4826			6810		
COST - Nonrecurring													
First Article Testing								500					
Production Testing					115								
Training Fuzes					485								
SubTotal COST - Nonrecurring					600			500					
Total					47245		293	37287		268	38315		270

Exhibit P-5a, Budget Procurement History and Planning

Date:
February 2002

Appropriation/Budget Activity/Serial No:
Procurement of Ammunition, Army / 1 / Ammunition

Weapon System Type:

P-1 Line Item Nomenclature:
FUZE MULTI OPTION (ER8017)

WBS Cost Elements:	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY x1000	Unit Cost \$	Specs Avail Now?	Date Revsn Avail	RFP Issue Date
M782 Complete Fuze										
FY 2001	KDI Cincinnati, Ohio	MYP2-FP	Picatinny Arsenal, NJ	Dec-00	Aug-02	161	253	Y		Feb-00
FY 2002	TBS	MYP1-FP	Picatinny Arsenal, NJ	May-02	Nov-03	139	228	Y		Feb-02
FY 2003	TBS	MYP2-FP	Picatinny Arsenal, NJ	Jan-03	Aug-04	142	220	Y		Feb-02

REMARKS: The current Acquisition Strategy calls for a 4 year Multi-year contract for FY02-FY05.

FY 02 / 03 BUDGET PRODUCTION SCHEDULE

P-1 Item Nomenclature:
FUZE MULTI OPTION (ER8017)

Date:
February 2002

COST ELEMENTS	MFR	FY	SERV	PROC QTY x1000	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
M782 Complete Fuze																															
	1	FY 01	A	161	0	161																						0			
	2	FY 02	A	139	0	139							A															139			
	2	FY 03	A	142	0	142																			A			142			
Total				442		442																						281			

MFR	NAME/LOCATION	PRODUCTION RATES			REACHED D+	MFR Number	ADMINLEAD TIME		MFR After 1 Oct	TOTAL After 1 Oct	REMARKS	
		MIN.	1-8-5	MAX.			Prior 1 Oct	After 1 Oct				
1	KDI, Cincinnati, Ohio	10.00	21.00	48.00	0	1	INITIAL	0	7	18	25	
							REORDER	0	4	15	19	
2	TBS	10.00	21.00	48.00	0	2	INITIAL	0	8	18	26	
							REORDER	0	4	15	19	
							INITIAL					
							REORDER					
							INITIAL					
							REORDER					
							INITIAL					
							REORDER					

Exhibit P-40, Budget Item Justification Sheet

Date:

February 2002

Appropriation/Budget Activity/Serial No:
Procurement of Ammunition, Army /1/Ammunition

P-1 Item Nomenclature
MINE, TRAINING, ALL TYPES (EA0800)

Program Elements for Code B Items:

Code:

Other Related Program Elements:

	Prior Years	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	To Complete	Total Prog
Proc Qty												
Gross Cost	47.6		5.5	1.4	5.7	12.7	10.9					83.8
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	47.6		5.5	1.4	5.7	12.7	10.9					83.8
Initial Spares												
Total Proc Cost	47.6		5.5	1.4	5.7	12.7	10.9					83.8
Flyaway U/C												
Wpn Sys Proc U/C												

Description:

This budget line covers Mine Training, All Types.

Exhibit P-5, Weapon AMMO Cost Analysis		Appropriation/Budget Activity/Serial No. Procurement of Ammunition, Army / 1 / Ammunition			P-1 Line Item Nomenclature: MINE, TRAINING, ALL TYPES (EA0800)			Weapon System Type:			Date: February 2002		
AMMO Cost Elements	ID CD	FY 00			FY 01			FY 02			FY 03		
		TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
		\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000
Mine Practice M88 (Volcano)											4000	57	70.18
WAM Individual Trainer					1395	124	11.25	3795	251	15.12	5640	383	14.73
WAM Collective Trainer								1941	1915	1.14	3021	2962	1.02
Total					1395			5736			12661		

Exhibit P-40, Budget Item Justification Sheet

Date:

February 2002

Appropriation/Budget Activity/Serial No:
Procurement of Ammunition, Army /1/Ammunition

P-1 Item Nomenclature
WAM INDIVIDUAL TRAINER (E78103)

Program Elements for Code B Items:

Code:
A

Other Related Program Elements:

	Prior Years	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	To Complete	Total Prog
Proc Qty	200		30	124	251	383	474					1462
Gross Cost	1.8		1.8	1.4	3.8	5.6	6.9					21.3
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	1.8		1.8	1.4	3.8	5.6	6.9					21.3
Initial Spares												
Total Proc Cost	1.8		1.8	1.4	3.8	5.6	6.9					21.3
Flyaway U/C												
Wpn Sys Proc U/C												

Description:

The Wide Area Munition (WAM) Individual Trainer is a totally inert device designed for use by target audience, in classroom settings, to train on proper munition deployment and setup of the hand-emplaced WAM. All munition controls which are required for operational emplacement procedures will be present, physically operational and resettable. All external dimensions will be the same as the tactical munition. This item is Code A, approved for service use. This system supports the Legacy-to-Objective transition path of the Transformation Campaign Plan (TCP).

Justification:

The WAM Individual Trainer is needed to help train the soldier that will be deploying WAM's in the field. The training device is necessary due to the restrictive cost and safety factors related to the actual employment of the mine for training purposes. The WAM is a smart munition that will require training to achieve a high degree of confidence that soldiers will be able to use it effectively.

Type Classification Date: (Proposed) - September 2002 - Standard

Acquisition Manager: Project Manager, Mines Countermeasure and Demolitions (PM-MCD)

Exhibit P-5, Weapon AMMO Cost Analysis		Appropriation/Budget Activity/Serial No. Procurement of Ammunition, Army / 1 / Ammunition			P-1 Line Item Nomenclature: WAM INDIVIDUAL TRAINER (E78103)			Weapon System Type:			Date: February 2002		
AMMO Cost Elements	ID CD	FY 00			FY 01			FY 02			FY 03		
		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													
WAM Individual Trainer					1203	124	10	2502	251	10	3746	383	10
Subtotal					1203			2502			3746		
Production Support													
Production Engineering					52			270			360		
Quality Assurance					15			80			200		
Acceptance Testing					15			50			100		
Subtotal					82			400			660		
Non-Recurring Costs													
Producibility					35			220			275		
Engineering Changes					35			100			159		
Production Verification Test					40			100					
Contractor Engineering Support								473			800		
Subtotal					110			893			1234		
Total					1395			3795			5640		

Exhibit P-5a, Budget Procurement History and Planning

Date:
February 2002

Appropriation/Budget Activity/Serial No:
Procurement of Ammunition, Army / 1 / Ammunition

Weapon System Type:

P-1 Line Item Nomenclature:
WAM INDIVIDUAL TRAINER (E78103)

WBS Cost Elements:	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
WAM Individual Trainer										
FY 2001	TBS	C/FP	STRICOM	Sep 02	Mar 03	124	10	Yes		
FY 2002	TBS	Option	STRICOM	Sep 02	May 03	251	10	Yes		
FY 2003	TBS	Option	STRICOM	Dec 02	Aug 03	383	10	Yes		

REMARKS:

Exhibit P-40, Budget Item Justification Sheet

Date: February 2002

Appropriation/Budget Activity/Serial No:
Procurement of Ammunition, Army /1/Ammunition

P-1 Item Nomenclature
Mine AT VOLCANO,: All Types (E72501)

Program Elements for Code B Items:

Code:

Other Related Program Elements:

	Prior Years	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	To Complete	Total Prog
Proc Qty												
Gross Cost	400.3	11.9	18.0	14.9	7.0					10.0		462.0
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	400.3	11.9	18.0	14.9	7.0					10.0		462.0
Initial Spares												
Total Proc Cost	400.3	11.9	18.0	14.9	7.0					10.0		462.0
Flyaway U/C												
Wpn Sys Proc U/C												

Description:

This budget line includes Mine AT VOLCANO, All types.

Exhibit P-5, Weapon AMMO Cost Analysis		Appropriation/Budget Activity/Serial No. Procurement of Ammunition, Army / 1 / Ammunition			P-1 Line Item Nomenclature: Mine AT VOLCANO.; All Types (E72501)			Weapon System Type:			Date: February 2002		
AMMO Cost Elements	ID CD	FY 00			FY 01			FY 02			FY 03		
		TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
		\$000	x1000	\$	\$000	x1000	\$	\$000	x1000	\$	\$000	x1000	\$
Mine AT (VOLCANO)					14862	3	4954	6951	2	3476			
Total					14862			6951					

Exhibit P-40, Budget Item Justification Sheet

Date:

February 2002

Appropriation/Budget Activity/Serial No:
Procurement of Ammunition, Army /1/Ammunition

P-1 Item Nomenclature
MINE AT M87 (VOLCANO) (E72195)

Program Elements for Code B Items:

Code:
A

Other Related Program Elements:

	Prior Years	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	To Complete	Total Prog
Proc Qty	180	3	4	3	2					2		194
Gross Cost	400.3	11.9	18.0	14.9	7.0					10.0		462.0
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	400.3	11.9	18.0	14.9	7.0					10.0		462.0
Initial Spares												
Total Proc Cost	400.3	11.9	18.0	14.9	7.0					10.0		462.0
Flyaway U/C												
Wpn Sys Proc U/C												

Description:

This canister will be loaded with six improved sensor anti-tank (AT) mines. This canister is designed for quick connect/disconnect to aid loading/unloading and is expendable after use. These mines will be deployed by the Volcano M139 Mine Dispenser to permit quick emplacement of a minefield (1000 meters by 120 meters) that will delay, disrupt and channel enemy forces and restrict their use of critical routes or terrain. This system is critical for the United States Army to be able to conduct Full-Dimension Operations. This item is Code A, approved for service use.

Justification:

The Volcano system is a key component of the Army landmine program. This system will replace the use of hand emplaced conventional minefields, thereby reducing the exposure of personnel to hostile fire. The M87A1 Volcano is Ottawa compliant.

Type Classification Date M87 Standard - January 1989
M87A1 LRIP - March 1994: Standard - September 1994

Acquisition Manager: Project Manager for Mines, Countermine and Demolitions (PM-MCD)

Exhibit P-5, Weapon AMMO Cost Analysis		Appropriation/Budget Activity/Serial No. Procurement of Ammunition, Army / 1 / Ammunition			P-1 Line Item Nomenclature: MINE AT M87 (VOLCANO) (E72195)			Weapon System Type:			Date: February 2002		
AMMO Cost Elements	ID CD	FY 00			FY 01			FY 02			FY 03		
		TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
		\$000	x1000	\$	\$000	x1000	\$	\$000	x1000	\$	\$000	x1000	\$
Hardware													
LAP (M87A1)					4000	3	1157	1950	2	1218			
MSEP Electronic Lens					6955	22	321	3385	12	282			
Coil and Strap Assembly					662	4	186	325	2	203			
Metal Parts Sets					925	4	260	450	2	281			
AT S&A Assembly					829	24	35	390	12	33			
Miscellaneous					43								
Subtotal					13414			6500					
Production Support													
Production Engineering					788			231					
Quality Assurance					525			130					
Lot Acceptance Testing					135			90					
Subtotal					1448			451					
Total					14862			6951					

Exhibit P-5a, Budget Procurement History and Planning

Date:
February 2002

Appropriation/Budget Activity/Serial No: Procurement of Ammunition, Army / 1 / Ammunition		Weapon System Type:			P-1 Line Item Nomenclature: MINE AT M87 (VOLCANO) (E72195)					
WBS Cost Elements:	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY x1000	Unit Cost \$	Specs Avail Now?	Date Revsn Avail	RFP Issue Date
LAP (M87A1)										
FY 2001	Day&Zimmerman (LSAAP) Texarkana, TX	SS/FP	OSC	May 01	Oct 02	3	1157	Yes		
FY 2002	Day&Zimmerman (LSAAP) Texarkana, TX	SS/FP	OSC	Aug 02	Jul 03	2	1218	Yes		
MSEP Electronic Lens										
FY 2001	Alliant Techsystems Edina, MN	Option	ARDEC	Mar 01	Dec 01	22	321	Yes		
FY 2002	Alliant Techsystems Edina, MN	SS/FP	ARDEC	Aug 02	May 03	12	282	Yes		
Coil and Strap Assembly										
FY 2001	MaTech Salisbury, MD	Option	ARDEC	Apr 01	Sep 01	4	186	Yes		
FY 2002	MaTech Salisbury, MD	Option	ARDEC	Mar 02	Aug 02	2	203	Yes		
Metal Parts Sets										
FY 2001	MaTech Salisbury, MD	Option	ARDEC	Apr 01	Sep 01	4	260	Yes		
FY 2002	MaTech Salisbury, MD	Option	ARDEC	Mar 02	Aug 02	2	281	Yes		
AT S&A Assembly										
FY 2001	Action Mfg Philadelphia PA	C/FP	OSC	Aug 01	Nov 01	24	35	Yes		
FY 2002	Action Mfg Philadelphia PA	Option	OSC	Mar 02	Jun 02	12	33	Yes		

REMARKS:

Exhibit P-40, Budget Item Justification Sheet

Date:

February 2002

Appropriation/Budget Activity/Serial No:
Procurement of Ammunition, Army /1/Ammunition

P-1 Item Nomenclature
WIDE AREA MUNITIONS (E78100)

Program Elements for Code B Items:

Code:
B

Other Related Program Elements:

	Prior Years	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	To Complete	Total Prog
Proc Qty	252	33	70	23			514	930	1000	762	16196	19780
Gross Cost	39.3	9.5	15.2	19.1	2.0	12.5	36.0	55.5	57.8	45.0	926.0	1218.1
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	39.3	9.5	15.2	19.1	2.0	12.5	36.0	55.5	57.8	45.0	926.0	1218.1
Initial Spares												
Total Proc Cost	39.3	9.5	15.2	19.1	2.0	12.5	36.0	55.5	57.8	45.0	926.0	1218.1
Flyaway U/C												
Wpn Sys Proc U/C												

Description:

The M93 Wide Area Munition is a first generation smart munition. It weighs 35 pounds and can be transported by a single soldier. It has the capability to recognize armor and heavy truck targets and to autonomously aim and launch its submunition to an effective radius of 100 meters. The M93 is designated for command control of the Arm/Destruct functions. The Product Improvement Program (PIP) version, known as Advanced Hornet, adds on-off-on redeployability and performance enhancements. This item is Code B, not approved for service use. This system supports the Legacy-to-Objective transition path of the Transformation Campaign Plan (TCP).

Justification:

The M93 Wide Area Munition supports high mobility/offensive operations. Its design for flexible/rapid deployment combined with cost effective logistics and a self covering minefield capability provides increased performance and lethality over current mines in inventory. FY 2003 funds procure special tooling, test equipment and first article test for Advanced Hornet.

WAM (Basic) Type Classification Date: June 1996 - Low Rate Initial Production (LRIP)

WAM (PIP) (Advanced Hornet) Type Classification Date: September 2002 - LRIP

WAM (PIP) (Advanced Hornet) Full Rate Production Decision: June 2004

Acquisition Manager: Office of Project Manager, Mines Countermine and Demolitions (OPM-MCD)

Exhibit P-5, Weapon AMMO Cost Analysis		Appropriation/Budget Activity/Serial No. Procurement of Ammunition, Army / 1 / Ammunition			P-1 Line Item Nomenclature: WIDE AREA MUNITIONS (E78100)			Weapon System Type:			Date: February 2002		
AMMO Cost Elements	ID CD	FY 00			FY 01			FY 02			FY 03		
		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													
LAP Wide Area Munition - Basic					4608	23	201						
LAP Wide Area Munition - PIP					7029	35	201						
Production Verif. Test Units											2460		
Miscellaneous					12								
Subtotal					11649						2460		
Production Support													
Production Engineering					1950			675			366		
Quality Assurance													
OGA Support					283			250			120		
Program Management					250			100			100		
Subtotal					2483			1025			586		
Non-Recurring Costs													
Tooling / Test Equipment					2200			686			8570		
Engineering Changes					150								
Production Verification Test					2379						850		
Contractor Engineering Support					288			300					
Subtotal					5017			986			9420		
Total					19149			2011			12466		

Exhibit P-5a, Budget Procurement History and Planning

Date:
February 2002

Appropriation/Budget Activity/Serial No: Procurement of Ammunition, Army / 1 / Ammunition		Weapon System Type:			P-1 Line Item Nomenclature: WIDE AREA MUNITIONS (E78100)					
WBS Cost Elements:	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
LAP Wide Area Munition - Basic FY 2001	Textron Defense Systems Wilmington, MA	SS/FP	ARDEC	Apr 01	Jan 02	23	201	Yes		

REMARKS:

Exhibit P-40, Budget Item Justification Sheet

Date:

February 2002

Appropriation/Budget Activity/Serial No:
Procurement of Ammunition, Army /1/Ammunition

P-1 Item Nomenclature
BUNKER DEFEATING MUNITION (BDM) (E88400)

Program Elements for Code B Items:

Code:

Other Related Program Elements:

	Prior Years	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	To Complete	Total Prog
Proc Qty												
Gross Cost	39.3	9.9	9.8	6.0	3.5	7.8	8.1	8.3	8.5	8.8		109.9
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	39.3	9.9	9.8	6.0	3.5	7.8	8.1	8.3	8.5	8.8		109.9
Initial Spares												
Total Proc Cost	39.3	9.9	9.8	6.0	3.5	7.8	8.1	8.3	8.5	8.8		109.9
Flyaway U/C												
Wpn Sys Proc U/C												

Description:

This budget line includes Bunker Defeating Munitions, All Types.

Exhibit P-5, Weapon AMMO Cost Analysis		Appropriation/Budget Activity/Serial No. Procurement of Ammunition, Army / 1 / Ammunition			P-1 Line Item Nomenclature: BUNKER DEFEATING MUNITION (BDM) (E88400)			Weapon System Type:			Date: February 2002			
AMMO Cost Elements		ID CD	FY 00			FY 01			FY 02			FY 03		
			TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
			\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000
Bunker Defeating Munitions (TACTICAL)					5958	598	9.96	3475	250	13.90	7795	950	8.21	
Total					5958			3475			7795			

Exhibit P-40, Budget Item Justification Sheet

Date:

February 2002

Appropriation/Budget Activity/Serial No:
Procurement of Ammunition, Army /1/Ammunition

P-1 Item Nomenclature
BUNKER DEFEATING MUNITION (TACTICAL) (E88401)

Program Elements for Code B Items:

Code:
A

Other Related Program Elements:

	Prior Years	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	To Complete	Total Prog
Proc Qty	5412	1076	1104	598	250	950	1000	1100	1151	1201		13842
Gross Cost	39.3	9.9	9.8	6.0	3.5	7.8	8.1	8.3	8.5	8.8		109.9
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	39.3	9.9	9.8	6.0	3.5	7.8	8.1	8.3	8.5	8.8		109.9
Initial Spares												
Total Proc Cost	39.3	9.9	9.8	6.0	3.5	7.8	8.1	8.3	8.5	8.8		109.9
Flyaway U/C												
Wpn Sys Proc U/C												

Description:

The Bunker Defeat Munition Shoulder-Launched Multi-purpose Assault Weapon - Disposable (SMAW-D) is a stand-alone, single-shot disposable munition which is used to defeat earth and timber field fortifications (bunkers). It also defeats light armored vehicles and breaches masonry walls. The need for the BDM SMAW-D was identified during operations Urgent Fury, Just Cause and Desert Shield/Storm. Other systems available (M136, AT4 and the M72 LAW) are ineffective against bunkers. The BDM is light weight (15.7 lbs.), man-portable and air deployable. The BDM will be used by contingency forces. The item is Code A, approved for service use.

Justification:

Procurement supports contingency forces only.

Type Classified (TC) Generic August 1993 & TC Limited Procurement September 1994

Acquisition Manager: TACOM-ARDEC, Picatinny, NJ

Exhibit P-5, Weapon AMMO Cost Analysis		Appropriation/Budget Activity/Serial No. Procurement of Ammunition, Army / 1 / Ammunition			P-1 Line Item Nomenclature: BUNKER DEFEATING MUNITION (TACTICAL) (E88401)			Weapon System Type:			Date: February 2002		
AMMO Cost Elements	ID CD	FY 00			FY 01			FY 02			FY 03		
		TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
		\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000
AMMUNITION HARDWARE													
Complete Round	B				4617	598	9	2625	250	11	7795	950	9
Field Handling System	B				119	26	4						
SubTotal AMMO Hardware					4736			2625			7795		
Production Support Costs													
Production Engineering					698			550					
Quality Assurance					131			135					
Acceptance Testing					358			140					
Interim Transportation					35			25					
SubTotal Prod. Support					1222			850					
Total					5958			3475			7795		

Exhibit P-5a, Budget Procurement History and Planning

Date:
February 2002

Appropriation/Budget Activity/Serial No:
Procurement of Ammunition, Army / 1 / Ammunition

Weapon System Type:

P-1 Line Item Nomenclature:
BUNKER DEFEATING MUNITION (TACTICAL) (E88401)

WBS Cost Elements:	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
Complete Round										
FY 2001	Talley Mesa, AZ	C/FP	TACOM-ARDEC	May 01	Oct 02	598	9			
FY 2002	Talley Mesa, AZ	C/FP	TACOM-ARDEC	Feb 03	May 04	250	11			
FY 2003	Talley Mesa, AZ	C/FP	TACOM-ARDEC	Feb 03	May 04	950	9			
Field Handling System										
FY 2001	Talley Mesa, AZ	C/FP	TACOM-ARDEC	May 01	Oct 02	26	4			
FY 2002		C/FP	TACOM-ARDEC	Feb 03	May 04					

REMARKS:

Exhibit P-40, Budget Item Justification Sheet

Date:

February 2002

Appropriation/Budget Activity/Serial No:
Procurement of Ammunition, Army /1/Ammunition

P-1 Item Nomenclature
ROCKET, HYDRA 70, ALL TYPES (E37300)

Program Elements for Code B Items:

Code:
A

Other Related Program Elements:

	Prior Years	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	To Complete	Total Prog
Proc Qty												
Gross Cost	935.0	122.5	143.6	155.3	135.7	22.4	22.4	15.0	7.5			1559.5
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	935.0	122.5	143.6	155.3	135.7	22.4	22.4	15.0	7.5			1559.5
Initial Spares												
Total Proc Cost	935.0	122.5	143.6	155.3	135.7	22.4	22.4	15.0	7.5			1559.5
Flyaway U/C												
Wpn Sys Proc U/C												

Description:

This budget lines procures all types Hydra 70 rockets in support of training and war reserve requirements. Further, the system provides combat overmatch capability and ensures a near-term warfighting readiness posture. This system of aerial rockets is used by Army aircraft (AH-64 Apache and OH-58D Kiowa Warrior helicopters) to perform a number of roles including anti-materiel, anti-personnel, and air-to-ground suppression.

Exhibit P-5, Weapon AMMO Cost Analysis		Appropriation/Budget Activity/Serial No. Procurement of Ammunition, Army / 1 / Ammunition			P-1 Line Item Nomenclature: ROCKET, HYDRA 70, ALL TYPES (E37300)			Weapon System Type:			Date: February 2002			
AMMO Cost Elements		ID	FY 00			FY 01			FY 02			FY 03		
		CD	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
			\$000	x1000	\$000	\$000	x1000	\$000	\$000	x1000	\$000	\$000	x1000	\$000
ROCKET HYDRA 70 MPSM HE M261						6460								
ROCKET HYDRA 70 ILLUM M257						1450								
ROCKET HYDRA 70 MPSM PRAC M267						30765	29	1061	31205	30	1040			
ROCKET HYDRA 70 HE/PD M151/M423						28143	24	1173	25258	31	815	22400	30	747
ROCKET HYDRA 70 SIG PRAC M274						88512	148	598	79241	132	600			
Total						155330			135704			22400		

Exhibit P-40, Budget Item Justification Sheet

Date: February 2002

Appropriation/Budget Activity/Serial No:
Procurement of Ammunition, Army /1/Ammunition

P-1 Item Nomenclature
ROCKET HYDRA 70 MPSM HE M261 (E37327)

Program Elements for Code B Items:

Code:
A

Other Related Program Elements:

	Prior Years	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	To Complete	Total Prog
Proc Qty	96											96
Gross Cost	98.0		0.6	6.5								105.0
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	98.0		0.6	6.5								105.0
Initial Spares												
Total Proc Cost	98.0		0.6	6.5								105.0
Flyaway U/C												
Wpn Sys Proc U/C												

Description:

This system of aerial rockets is used by Army aircraft (AH-64 Apache and OH-58D Kiowa Warrior helicopters) to perform a number of roles including anti-materiel, anti-personnel, and air-to-ground suppression. The M261 HE Multipurpose Submunition (MPSM) warhead provides improved lethality and effectiveness against area targets such as light armor, wheeled vehicles, materiel, and personnel. It has a plastic nose cone assembly, an aluminum warhead case, an integral fuze, an expulsion charge, and nine M73 submunitions. The primary warhead fuze (M439) is remotely set to provide range (time of flight) from 500 meters to approximately 7,000 meters. This item is Code A, approved for service use.

Justification:

Program provided for upgrade of approximately 23,000 tactical rockets by incorporating the latest configuration MK66 MOD4 motor.

TYPE CLASSIFICATION DATE: 1982

ACQUISITION MANAGER: PM, Aviation Rockets and Missiles, Rock Island, IL.

Exhibit P-40, Budget Item Justification Sheet

Date:

February 2002

Appropriation/Budget Activity/Serial No:
Procurement of Ammunition, Army /1/Ammunition

P-1 Item Nomenclature
ROCKET HYDRA 70 MPSM PRAC M267 (E37334)

Program Elements for Code B Items:

Code:
A

Other Related Program Elements:

	Prior Years	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	To Complete	Total Prog
Proc Qty	250	39	36	29	30							384
Gross Cost	172.8	38.1	36.5	30.8	31.2							309.3
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	172.8	38.1	36.5	30.8	31.2							309.3
Initial Spares												
Total Proc Cost	172.8	38.1	36.5	30.8	31.2							309.3
Flyaway U/C												
Wpn Sys Proc U/C												

Description:

The HYDRA-70 family of rockets is used by Army aircraft (AH-64 Apache and OH-58D Kiowa Warrior helicopters) to perform a number of roles including anti-materiel, anti-personnel, and air-to-ground suppression. The M267 Multipurpose Submunition (MPSM) practice round is identical in operation to the M261 tactical warhead except that it has three M75 practice submunitions, with a flash powder smoke signature, that takes the place of the nine M73 submunitions. Six inert submunitions are used to complete the weight and balance requirements. The M267 uses the M439 remote fuze, is mated to the MK66 Mod 4 rocket motor with electromagnetic radiation protection, and is required to train with the fire control and rocket management systems on attack helicopters. This item is Code A, approved for service use.

Justification:

Procurements support annual peacetime training and builds a depot stockage level in accordance with the Army's procurement goals. This is a training unique item; not used in combat. The M267 MPSM Practice round is safer to use, is cheaper, and has less of an environmental impact than high explosive rockets. At the same time, it allows objective scoring during peacetime training with rockets compatible with the new sterile, instrumented training ranges equipped with advanced sensors.

TYPE CLASSIFICATION DATE: 1982

ACQUISITION MANAGER: PM, Aviation Rockets and Missiles, Rock Island, IL.

Exhibit P-5, Weapon AMMO Cost Analysis		Appropriation/Budget Activity/Serial No. Procurement of Ammunition, Army / 1 / Ammunition			P-1 Line Item Nomenclature: ROCKET HYDRA 70 MPSM PRAC M267 (E37334)			Weapon System Type:			Date: February 2002		
AMMO Cost Elements	ID CD	FY 00			FY 01			FY 02			FY 03		
		TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
		\$000	x1000	\$	\$000	x1000	\$	\$000	x1000	\$	\$000	x1000	\$
AMMUNITION HARDWARE													
Complete Round					27441	29	946	28667	30	956			
SubTotal AMMO Hardware					27441			28667					
Production Support Costs													
Production Engineering					1639			2133					
SubTotal Prod. Support					1639			2133					
COST - Nonrecurring													
Matériel Change					1685			405					
SubTotal COST - Nonrecurring					1685			405					
Total					30765		1061	31205		1040			

Exhibit P-5a, Budget Procurement History and Planning

Date:
February 2002

Appropriation/Budget Activity/Serial No:
Procurement of Ammunition, Army / 1 / Ammunition

Weapon System Type:

P-1 Line Item Nomenclature:
ROCKET HYDRA 70 MPSM PRAC M267 (E37334)

WBS Cost Elements:	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY x1000	Unit Cost \$	Specs Avail Now?	Date Revsn Avail	RFP Issue Date
Complete Round										
FY 2001	General Dynamics Burlington, VT	SS/FP	OSC, Rock Island, IL	Dec-00	Sep-02	29	946	Y		Oct-98
FY 2002	General Dynamics Burlington, VT	SS/FP	OSC, Rock Island, IL	Feb-02	Jul-03	30	956	Y		Oct-98

REMARKS:

Exhibit P-40, Budget Item Justification Sheet

Date: February 2002

Appropriation/Budget Activity/Serial No:
Procurement of Ammunition, Army /1/Ammunition

P-1 Item Nomenclature
ROCKET HYDRA 70 HE/PD M151/M423 (E37335)

Program Elements for Code B Items:

Code:
A

Other Related Program Elements:

	Prior Years	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	To Complete	Total Prog
Proc Qty	211	16	47	24	31	30	24	14	4			401
Gross Cost	61.3	12.2	35.0	28.1	25.3	22.4	22.4	15.0	7.5			229.2
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	61.3	12.2	35.0	28.1	25.3	22.4	22.4	15.0	7.5			229.2
Initial Spares												
Total Proc Cost	61.3	12.2	35.0	28.1	25.3	22.4	22.4	15.0	7.5			229.2
Flyaway U/C												
Wpn Sys Proc U/C												

Description:

The HYDRA-70 family of rockets is used by Army aircraft (AH-64 Apache and OH-58D Kiowa Warrior helicopters) to perform a number of roles including anti-materiel, anti-personnel, and air-to-ground suppression. The M151 HEPD is a unitary fragmenting 10 lb anti-personnel warhead with the M423 Point Detonating Fuze. Upon detonation, the warhead fragments into thousands of small, high velocity fragments. This item is Code A, approved for service use.

Justification:

The FY 2003 procurement maintains war reserve inventory and supports annual peacetime training requirements in accordance with the Army's procurement goals. This is a war reserve item and is also used for Special Forces training.

TYPE CLASSIFICATION DATE: 26 February 1982

ACQUISITION MANAGER: PM, Aviation Rockets and Missiles, Rock Island, IL.

Exhibit P-5, Weapon AMMO Cost Analysis		Appropriation/Budget Activity/Serial No. Procurement of Ammunition, Army / 1 / Ammunition			P-1 Line Item Nomenclature: ROCKET HYDRA 70 HE/PD M151/M423 (E37335)			Weapon System Type:			Date: February 2002		
AMMO Cost Elements	ID CD	FY 00			FY 01			FY 02			FY 03		
		TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
		\$000	x1000	\$	\$000	x1000	\$	\$000	x1000	\$	\$000	x1000	\$
AMMUNITION HARDWARE													
Complete Round					15010	24	625	19450	31	627	19181	30	639
MK66 MOD4 Motor					6862	16	429						
FASTPACK Containers					1450		2150						
SubTotal AMMO Hardware					23322			19450			19181		
Production Support Costs													
Production Engineering					1453			1447			1449		
SubTotal Prod. Support					1453			1447			1449		
COST - Nonrecurring													
Materiel Change					3368			3161					
Motor Replacement								1200			1770		
SubTotal COST Nonrecurring					3368			4361			1770		
Total					28143		1173	25258		815	22400		747

Exhibit P-5a, Budget Procurement History and Planning

Date:
February 2002

Appropriation/Budget Activity/Serial No: Procurement of Ammunition, Army / 1 / Ammunition		Weapon System Type:			P-1 Line Item Nomenclature: ROCKET HYDRA 70 HE/PD M151/M423 (E37335)					
WBS Cost Elements:	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY x1000	Unit Cost \$	Specs Avail Now?	Date Revsn Avail	RFP Issue Date
Complete Round										
FY 2001	General Dynamics Burlington, VT	SS/FP	OSC, Rock Island, IL	Dec-00	Sep-02	24	625	Y		Oct-98
FY 2002	General Dynamics Burlington, VT	SS/FP	OSC, Rock Island, IL	Feb-02	Jul-03	31	627	Y		Oct-98
FY 2003	General Dynamics Burlington, VT	SS/FP	OSC, Rock Island, IL	Jan-03	Jul-04	30	639	Y		Oct-98
MK66 MOD4 Motor										
FY 2001	General Dynamics Burlington, VT	SS/FP	OSC, Rock Island, IL	Dec-00	Mar 01	16	429	Y		Oct-98

REMARKS: Competitively awarded five year (1999-2003) fixed price requirements contract to General Dynamics Ordnance Systems in June 1999 (FY99-FY03 basic year FY99 with four year option in FY00-FY03). Contract is executed by placing delivery orders against separate contract line items for individual models of all up rockets, motors, and warheads. Contract established fixed prices for each contract line item number (CLIN) by pricing period and production quantity ranges.

Exhibit P-40, Budget Item Justification Sheet

Date:

February 2002

Appropriation/Budget Activity/Serial No:
Procurement of Ammunition, Army /1/Ammunition

P-1 Item Nomenclature
ROCKET HYDRA 70 SIG PRAC M274 (E37337)

Program Elements for Code B Items:

Code:
A

Other Related Program Elements:

	Prior Years	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	To Complete	Total Prog
Proc Qty	1219	154	119	148	132							1772
Gross Cost	429.7	72.2	70.4	88.5	79.2							740.1
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	429.7	72.2	70.4	88.5	79.2							740.1
Initial Spares												
Total Proc Cost	429.7	72.2	70.4	88.5	79.2							740.1
Flyaway U/C												
Wpn Sys Proc U/C												

Description:

The HYDRA-70 family of rockets is used by Army aircraft (AH-64 Apache and OH-58D Kiowa Warrior helicopters) to perform a number of roles including anti-materiel, anti-personnel, and air-to-ground suppression. The M274 warhead is a smoke/flash signature practice warhead used for pilot/gunner training missions and consists of a cast iron warhead modified with vent holes, an aluminum nose cap with firing pin, a M423 fuze safe and arming device, and a smoke/flash cartridge. The M274, with the MK66 Mod 4 rocket motor and electromagnetic radiation protection, can be fired by all aircraft. This item is Code A, approved for service use.

Justification:

Procurements support all training schedules, initial qualification training for aviators, and builds a depot stockage level in accordance with the Army's procurement goals. This is a training unique item; not used in combat.

TYPE CLASSIFICATION DATE: 1986

ACQUISITION MANAGER: PM, Aviation Rockets and Missiles, Rock Island, IL.

Exhibit P-5, Weapon AMMO Cost Analysis		Appropriation/Budget Activity/Serial No. Procurement of Ammunition, Army / 1 / Ammunition			P-1 Line Item Nomenclature: ROCKET HYDRA 70 SIG PRAC M274 (E37337)			Weapon System Type:			Date: February 2002		
AMMO Cost Elements	ID CD	FY 00			FY 01			FY 02			FY 03		
		TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
		\$000	x1000	\$	\$000	x1000	\$	\$000	x1000	\$	\$000	x1000	\$
AMMUNITION HARDWARE													
Complete Round					80137	148	541	71266	132	540			
SubTotal AMMO Hardware					80137			71266					
Production Support Costs													
Production Engineering					6167			5303					
SubTotal Prod. Support					6167			5303					
COST - Nonrecurring													
Matériel Change					2208			2672					
SubTotal COST - Nonrecurring					2208			2672					
Total					88512		598	79241		600			

Exhibit P-5a, Budget Procurement History and Planning

Date:
February 2002

Appropriation/Budget Activity/Serial No:
Procurement of Ammunition, Army / 1 / Ammunition

Weapon System Type:

P-1 Line Item Nomenclature:
ROCKET HYDRA 70 SIG PRAC M274 (E37337)

WBS Cost Elements:	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY x1000	Unit Cost \$	Specs Avail Now?	Date Revsn Avail	RFP Issue Date
Complete Round										
FY 2001	General Dynamics Burlington, VT	SS/FP	OSC, Rock Island, IL	Dec-00	Sep-02	148	541	Y		Oct-98
FY 2002	General Dynamics Burlington, VT	SS/FP	OSC, Rock Island, IL	Feb-02	Jul-03	132	540	Y		Oct-98

REMARKS:

Exhibit P-40, Budget Item Justification Sheet

Date:

February 2002

Appropriation/Budget Activity/Serial No:
Procurement of Ammunition, Army /1/Ammunition

P-1 Item Nomenclature
DEMOLITION MUNITIONS, ALL TYPES (E55400)

Program Elements for Code B Items:

Code:

Other Related Program Elements:

	Prior Years	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	To Complete	Total Prog
Proc Qty												
Gross Cost	338.5	11.8	16.0	17.5	22.5	28.0	30.6	29.9	38.4	35.7		568.9
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	338.5	11.8	16.0	17.5	22.5	28.0	30.6	29.9	38.4	35.7		568.9
Initial Spares												
Total Proc Cost	338.5	11.8	16.0	17.5	22.5	28.0	30.6	29.9	38.4	35.7		568.9
Flyaway U/C												
Wpn Sys Proc U/C												

Description:

This budget line includes Demolition Munition All Types.

Exhibit P-5, Weapon AMMO Cost Analysis		Appropriation/Budget Activity/Serial No. Procurement of Ammunition, Army / 1 / Ammunition			P-1 Line Item Nomenclature: DEMOLITION MUNITIONS, ALL TYPES (E55400)			Weapon System Type:			Date: February 2002		
AMMO Cost Elements	ID CD	FY 00			FY 01			FY 02			FY 03		
		TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
		\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000
Chg Demo Blk Comp C-4 1-1/4 lb M112								6182	419	14.75			
Selective LtWt Attack Munition (SOF)								640		214.67	4865	1	4865.00
Cap Blasting Non-Elec M7					37								
Cord Detonating Type 1					447	3591	0.12	53					
Fuze Blasting Time M700					318	1788	0.18	55					
Anti-Pers Obstacle Breaching System					6494	504	12.89	5431	425	12.78	4296	401	10.71
Charge Demo Shaped Clipped, M221					1524	184	8.28	975	117	8.33			
Cap Blasting Non-Elec w/30 ft Shock Tube								989	226	4.38			
Cap Blasting Non-Elec w/500 ft Shock Tub					864	48	18.00	771	42	18.36	910	36	25.28
Cap Blasting Non-Elec w/1000ft Shock Tub					1320	123	10.73	1553	50	31.06	2833	77	36.79
Igniter Time Fuze and Shock Tube, M81					629	194	3.24	627	195	3.22	683	202	3.38
Cap Blasting Inert Non-Elec w/500ft Shk								347	20	17.35			
Cap Blasting Non-Elec 10ft Shock Tube M1								280	66	4.24			
Cap Blasting Non-Elec 20 min Delay, M18					1536	137	11.21	1564	140	11.17			
Igniter Electric Match, M79					120	20	6.00	53					
Fighting Position Excavator, M300					2967	1824	1.63				2900	1700	1.71
Booster Demo Charge, M151					275	50	5.50	426	76	5.61	1158	200	5.79
Demo Kit Bangalore Torpedo M1A2											7490	5	1584.18
Cap Blasting Non-Elec 70ft Shock Tube					50	16	3.13						
Booster Demo Charge, M152					899	131	6.86	2565	285	9.00	2866	400	7.17
Total											28001		
					17480			22511					

Exhibit P-40, Budget Item Justification Sheet

Date:

February 2002

Appropriation/Budget Activity/Serial No:
Procurement of Ammunition, Army /1/Ammunition

P-1 Item Nomenclature
CHG DEMO BLK COMP C-4 1-1/4 LB M112 (E50601)

Program Elements for Code B Items:

Code:
A

Other Related Program Elements:

	Prior Years	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	To Complete	Total Prog
Proc Qty	7385		14		419		314	321	318	374		9145
Gross Cost	54.9	0.0	0.2		6.2		5.2	5.3	5.2	6.3		83.3
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	54.9	0.0	0.2		6.2		5.2	5.3	5.2	6.3		83.3
Initial Spares												
Total Proc Cost	54.9	0.0	0.2		6.2		5.2	5.3	5.2	6.3		83.3
Flyaway U/C												
Wpn Sys Proc U/C												

Description:

The block demolition charge consists of 1-1/4 pounds of composition C4 plastic explosive packed in a mylar-film bag. Pressure sensitive adhesive tape is provided on one of the rectangular surfaces, allowing quick emplacement by the individual soldier on the object to be destroyed. The explosive may be cut and/or removed from its wrapper and hand molded into a desired shape suited to the target. Upon detonation, the shock wave destroys the target by cutting, breaching or cratering. This item is Code A, approved for service use.

Justification:

Composition C4 is the primary demolition explosive used by the U.S. Army. This is a training standard item used in both training and combat. Procurement supports annual peacetime training, demilitarization requirements, and builds a war reserve inventory in accordance with the Army's procurement goals.

TYPE CLASSIFICATION DATE:

Prior to 1960

ACQUISITION MANAGER:

OSC, Rock Island, Ill

Exhibit P-5, Weapon AMMO Cost Analysis		Appropriation/Budget Activity/Serial No. Procurement of Ammunition, Army / 1 / Ammunition			P-1 Line Item Nomenclature: CHG DEMO BLK COMP C-4 1-1/4 LB M112 (E50601)			Weapon System Type:			Date: February 2002		
AMMO Cost Elements	ID CD	FY 00			FY 01			FY 02			FY 03		
		TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
		\$000	x1000	\$000	\$000	x1000	\$000	\$000	x1000	\$000	\$000	x1000	\$000
Load, Assemble, and Pack Comp C-4 Class 3 (LB)								1859	419	4.44			
								4175	553	7.55			
SubTotal AMMO Hardware								6034					
Production Support Costs													
Production Engineering								82					
Quality Assurance								10					
Interim Transportation								6					
Industrial Stock Support								50					
SubTotal Prod. Support								148					
Total								6182		14.76			

Exhibit P-5a, Budget Procurement History and Planning

Date:
February 2002

Appropriation/Budget Activity/Serial No: Procurement of Ammunition, Army / 1 / Ammunition		Weapon System Type:			P-1 Line Item Nomenclature: CHG DEMO BLK COMP C-4 1-1/4 LB M112 (E50601)					
WBS Cost Elements:	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY x1000	Unit Cost \$	Specs Avail Now?	Date Revsn Avail	RFP Issue Date
Load, Assemble, and Pack FY 2002	American Ordnance (MAAP) Milan, TN	C/FP	OSC, Rock Island, IL	Mar 2002	Jul 2003	419	4.44	Y		
Comp C-4 Class 3 (LB) FY 2002	Rona (Holston AAP) Arlington, VA	C/FP	OSC, Rock Island, IL	Mar 2002	Dec 2002	553	7.55	Y		

REMARKS: TBS - TO BE SELECTED

Exhibit P-40, Budget Item Justification Sheet

Date:

February 2002

Appropriation/Budget Activity/Serial No:
Procurement of Ammunition, Army /1/Ammunition

P-1 Item Nomenclature
DEMO KIT BANGALORE TORPEDO M1A2 (E50701)

Program Elements for Code B Items:

Code:
A

Other Related Program Elements:

	Prior Years	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	To Complete	Total Prog
Proc Qty	15					5	5	5	5	5		40
Gross Cost	6.6					7.5	7.6	8.0	8.1	8.2		46.0
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	6.6					7.5	7.6	8.0	8.1	8.2		46.0
Initial Spares												
Total Proc Cost	6.6					7.5	7.6	8.0	8.1	8.2		46.0
Flyaway U/C												
Wpn Sys Proc U/C												

Description:

Each kit contains 10 five-foot long torpedoes, 10 connecting sleeves, and a nose sleeve. Each end of the torpedo tube contains a threaded can well. The nose sleeve, rounded to facilitate pushing the torpedo through obstacles, is secured to the tube by a clip. The connecting sleeves are short, cylindrical couplings used to secure two or more torpedoes together, end to end. The M1A1 torpedoes have a main filler of approx. 9 lb amatol with TNT booster surrounding the capwells at each end. The M1A2 have a main filler of approximately 10.5 lbs comp B with Comp A3 booster at each end. Used to clear paths through Barb wire entanglements, minefields, and heavy undergrowth of bamboo. This item is Code A, approved for service use.

Justification:

This is a training standard item. FY 2003 procurement supports annual peacetime training and builds a war reserve inventory in accordance with the Army's procurement goals.

TYPE CLASSIFICATION DATE: 1958

ACQUISITION MANAGER:

OSC, Rock Island, Illinois

Exhibit P-5, Weapon AMMO Cost Analysis		Appropriation/Budget Activity/Serial No. Procurement of Ammunition, Army / 1 / Ammunition			P-1 Line Item Nomenclature: DEMO KIT BANGALORE TORPEDO M1A2 (E50701)			Weapon System Type:			Date: February 2002		
AMMO Cost Elements	ID CD	FY 00			FY 01			FY 02			FY 03		
		TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
		\$000	x1000	\$	\$000	x1000	\$	\$000	x1000	\$	\$000	x1000	\$
AMMUNITION HARDWARE													
Load, Assemble, and Pack											2916	5	576.74
Comp B-4 Type 1 (LB)											3659	546	6.70
Comp A-3 (LB)											127	52	2.44
SubTotal AMMO Hardware											6702		
Production Support Costs													
Production Engineering											685		
Quality Assurance											17		
Acceptance Testing											77		
Industrial Stock Support											9		
SubTotal Prod. Support											788		
Total											7490		1481.34

Exhibit P-5a, Budget Procurement History and Planning

Date:
February 2002

Appropriation/Budget Activity/Serial No:
Procurement of Ammunition, Army / 1 / Ammunition

Weapon System Type:

P-1 Line Item Nomenclature:
DEMO KIT BANGALORE TORPEDO M1A2 (E50701)

WBS Cost Elements:	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY x1000	Unit Cost \$	Specs Avail Now?	Date Revsn Avail	RFP Issue Date
Load, Assemble, and Pack										
FY 2003	TBS	C/FP	OSC, Rock Island, IL	Mar 2003	Jan 2004	5	576.74	Y		
Comp B-4 Type 1 (LB)										
FY 2003	TBS	C/FP	OSC, Rock Island, IL	Mar 2003	Oct 2003	546	6.70	Y		
Comp A-3 (LB)										
FY 2003	TBS	C/FP	OSC, Rock Island, IL	Mar 2003	Oct 2003	52	2.44	Y		

REMARKS: TBS - To Be Selected

Exhibit P-40, Budget Item Justification Sheet

Date:

February 2002

Appropriation/Budget Activity/Serial No:
Procurement of Ammunition, Army /1/Ammunition

P-1 Item Nomenclature
ANTI-PERS OBSTACLE BREACHING SYSTEM (E72800)

Program Elements for Code B Items:

Code:
A

Other Related Program Elements:

	Prior Years	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	To Complete	Total Prog
Proc Qty				580	425	401	234	28				1668
Gross Cost			0.6	6.5	5.4	4.3	2.7	0.5				20.0
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)			0.6	6.5	5.4	4.3	2.7	0.5				20.0
Initial Spares												
Total Proc Cost			0.6	6.5	5.4	4.3	2.7	0.5				20.0
Flyaway U/C												
Wpn Sys Proc U/C												

Description:

The Anti-Personnel Obstacle Breaching System (APOBS) consists of a line charge/fuze assembly and a rocket motor assembly. This item is a lightweight self-contained, one-shot expendable system which is transported and deployed by a two-man team. APOBS uses the EX126 Mod 0 rocket motor to propel a line charge over the obstacle. Employed in combat operations to breach a lane through wire and anti-personnel mine obstacles. The APOBS will replace the Bangalore Torpedo for breaching complex wire and anti-personnel landmine obstacles. This item is Code A, approved for service use. This system supports the Legacy-to-Objective transition path of the Transformation Campaign Plan (TCP).

Justification:

FY2003 procurement builds war reserve inventory in accordance with the Army's procurement goals. The budget line includes both the tactical system and the training aid.

TYPE CLASSIFICATION DATE: November 2000 - LRIP

TYPE CLASSIFICATION DATE: July 2001 - Standard

ACQUISITION MANAGER: Office Project Manager, Mines Countermine and Demolitions (OPM-MCD)

Exhibit P-5, Weapon AMMO Cost Analysis		Appropriation/Budget Activity/Serial No. Procurement of Ammunition, Army / 1 / Ammunition			P-1 Line Item Nomenclature: ANTI-PERS OBSTACLE BREACHING SYSTEM (E72800)			Weapon System Type:			Date: February 2002		
AMMO Cost Elements	ID CD	FY 00			FY 01			FY 02			FY 03		
		TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
		\$000	x1000	\$000	\$000	x1000	\$000	\$000	x1000	\$000	\$000	x1000	\$000
Hardware													
1. APOBS Tactical System					3137	350	8.96	3121	372	8.00	3038	401	7.58
2. APOBS Training Aid					2235	230	9.72	445	53	8.00			
3. Training Aid Retrofit Kit											71	283	0.25
4. Initial Spares (Training Aid)								59	1	59.00			
Subtotal					5372			3625			3109		
Production Support													
Production Engineering					354			259			249		
Quality Assurance					106			112			124		
Lot Acceptance Testing					266			290			313		
Program Management					137			141			147		
Training & Maintenance					259			344			354		
Engineering Change Orders								660					
Subtotal					1122			1806			1187		
Total					6494			5431			4296		

Exhibit P-5a, Budget Procurement History and Planning

Date:
February 2002

Appropriation/Budget Activity/Serial No: Procurement of Ammunition, Army / 1 / Ammunition		Weapon System Type:			P-1 Line Item Nomenclature: ANTI-PERS OBSTACLE BREACHING SYSTEM (E72800)					
WBS Cost Elements:	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. APOBS Tactical System										
FY 2001	Ensign-Bickford Simsbury, CT	Option/FP	Quantico, VA	Oct 01	Dec 01	350	9	Yes		
FY 2002	Ensign-Bickford Simsbury, CT	Option/FFP	Quantico, VA	Feb 02	Nov 02	372	8	Yes		
FY 2003	Ensign-Bickford Simsbury, CT	Option/FFP	Quantico, VA	Jan 03	Oct 03	401	8	Yes		
2. APOBS Training Aid										
FY 2001	Ensign-Bickford Simsbury, CT	Option/FP	Quantico, VA	Mar 01	Dec 01	230	10	Yes		
FY 2002	Ensign-Bickford Simsbury, CT	Option/FP	Quantico, VA	Jan 02	Oct 02	53	8	Yes		
3. Training Aid Retrofit Kit										
FY 2003	Ensign-Bickford Simsbury, CT	Option/FFP	Quantico, VA	Jan 03	Aug 03	283	1	No	Oct 02	
4. Initial Spares (Training Aid)										
FY 2002	Ensign-Bickford Simsbury, CT	Option/FP	Quantico, VA	Jan 02	Juln02	1	59	Yes		

REMARKS:

FY 04 / 05 BUDGET PRODUCTION SCHEDULE							P-1 Item Nomenclature: ANTI-PERS OBSTACLE BREACHING SYSTEM (E72800)													Date: February 2002										
COST ELEMENTS	MFR	FY	SERV	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										
							OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY		JUN	JUL	AUG
1. APOBS Tactical System																														
	1	FY 01	A	350	350	0																						0		
	1	FY 02	A	372	372	0																						0		
	1	FY 03	A	401	0	401	40	40	40	40	40	40	40	40	40	41												0		
2. APOBS Training Aid																														
	2	FY 01	A	230	230	0																						0		
	2	FY 02	A	53	53	0																						0		
APOBS System																														
	1	FY 00	MC	248	248	0																						0		
	1	FY 01	MC	1311	1311	0																						0		
	1	FY 02	MC	533	533	0																						0		
	1	FY 03	MC	1457	0	1457	145	145	145	146	146	146	146	146	146	146												0		
APOBS Training Aid																														
	2	FY 03	MC	80	0	80	80																					0		
Total																														
				5035	3097	1938	265	185	185	186	186	186	186	186	186	187														
							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	ADMINLEAD TIME		MFR After 1 Oct	TOTAL After 1 Oct	REMARKS																			
		MIN.	1-8-5	MAX.			Prior 1 Oct	After 1 Oct																						
1	Ensign Bickford Co, Simsbury CT	150.00	180.00	225.00	0	1	INITIAL	4	4	9	13																			
							REORDER	4	4	9	13																			
2	Ensign-Bickford, Simsbury, CT	50.00	150.00	230.00	0	2	INITIAL	4	4	9	13																			
							REORDER	4	4	9	13																			
							INITIAL																							
							REORDER																							
							INITIAL																							
							REORDER																							
							INITIAL																							
							REORDER																							

Exhibit P-40, Budget Item Justification Sheet

Date:

February 2002

Appropriation/Budget Activity/Serial No:
Procurement of Ammunition, Army /1/Ammunition

P-1 Item Nomenclature
GRENADES, ALL TYPES (E34000)

Program Elements for Code B Items:

Code:

Other Related Program Elements:

	Prior Years	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	To Complete	Total Prog
Proc Qty												
Gross Cost	584.2	22.0	12.2	21.4	25.1	37.6	43.3	40.1	44.3	46.0		876.1
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	584.2	22.0	12.2	21.4	25.1	37.6	43.3	40.1	44.3	46.0		876.1
Initial Spares												
Total Proc Cost	584.2	22.0	12.2	21.4	25.1	37.6	43.3	40.1	44.3	46.0		876.1
Flyaway U/C												
Wpn Sys Proc U/C												

Description:

This budget line includes GRENADES, ALL TYPES

Non-add Cost of War funding to allow full training of troops to meet standards is provided as follows:

FY 2003 \$3.2 million
 FY 2004 \$3.2 million
 FY 2005 \$3.2 million
 FY 2006 \$3.2 million
 FY 2007 \$3.2 million

Exhibit P-5, Weapon AMMO Cost Analysis		Appropriation/Budget Activity/Serial No. Procurement of Ammunition, Army / 1 / Ammunition			P-1 Line Item Nomenclature: GRENADES, ALL TYPES (E34000)			Weapon System Type:			Date: February 2002		
AMMO Cost Elements	ID CD	FY 00			FY 01			FY 02			FY 03		
		TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
		\$000	x1000	\$	\$000	x1000	\$	\$000	x1000	\$	\$000	x1000	\$
Fuze Grenade Hand Prac M228					4958	1462	3.39	5061	1705	2.97	8575	2405	3.57
Grenade Hand Frag Delay M67					5755	215	26.77	7623	281	27.13	19266	710	27.14
Grenade Hand Smoke Green M18					1631	67	24.34	2312	92	25.13	747	24	31.13
Grenade Hand Smoke Yellow M18					2736	109	24.99	2789	109	25.59	1954	65	30.06
Grenade Hand Smoke Violet M18								2124	67	0.32	3716	134	27.73
Grenade Hand Smoke Tng M83					2358	111	21.16	1986	78	25.46			
Grenade, Launcher, Smk Screen XM90					3972	64	62.06	3241	27	0.12	3294	20	164.70
----- Cost of War funding detailed on the P-40 is not included on this form.													
Total					21410			25136			37552		

Exhibit P-40, Budget Item Justification Sheet

Date:

February 2002

Appropriation/Budget Activity/Serial No:
Procurement of Ammunition, Army /1/Ammunition

P-1 Item Nomenclature
FUZE GRENADE HAND PRAC M228 (E31900)

Program Elements for Code B Items:

Code:
A

Other Related Program Elements:

	Prior Years	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	To Complete	Total Prog
Proc Qty	78367	788	2042	1462	1705	2405	2887	1794	1861	1858		95169
Gross Cost	76.1	1.9	5.8	5.0	5.1	8.6	10.3	6.7	7.1	7.2		133.8
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	76.1	1.9	5.8	5.0	5.1	8.6	10.3	6.7	7.1	7.2		133.8
Initial Spares												
Total Proc Cost	76.1	1.9	5.8	5.0	5.1	8.6	10.3	6.7	7.1	7.2		133.8
Flyaway U/C												
Wpn Sys Proc U/C												

Description:

The M228 Fuze is a pyrotechnic, delay-igniting fuze used with the M69 delay practice hand grenade. It is used by the individual soldier for training purposes. This item is Code A, approved for service use.

Justification:

This is a training unique item; not used in combat. FY 2003 procurement supports annual peacetime training and builds a depot level in accordance with the Army's procurement goals.

TYPE CLASSIFICATION DATE: 1971

ACQUISITION MANAGER: OSC, Rock Island, Ill

Exhibit P-5, Weapon AMMO Cost Analysis		Appropriation/Budget Activity/Serial No. Procurement of Ammunition, Army / 1 / Ammunition			P-1 Line Item Nomenclature: FUZE GRENADE HAND PRAC M228 (E31900)			Weapon System Type:			Date: February 2002		
AMMO Cost Elements	ID CD	FY 00			FY 01			FY 02			FY 03		
		TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
		\$000	x1000	\$000	\$000	x1000	\$000	\$000	x1000	\$000	\$000	x1000	\$000
AMMUNITION HARDWARE													
Complete Round					4639	1462	3.17	4754	1705	2.79	7934	2405	3.30
SubTotal AMMO Hardware					4639			4754			7934		
Production Support Costs													
Production Engineering					250			267			623		
Quality Assurance											7		
Industrial Stock Support					69			40			11		
SubTotal Prod. Support					319			307			641		
Total					4958		3.39	5061		2.97	8575		3.57

Exhibit P-5a, Budget Procurement History and Planning

Date:
February 2002

Appropriation/Budget Activity/Serial No:
Procurement of Ammunition, Army / 1 / Ammunition

Weapon System Type:

P-1 Line Item Nomenclature:
FUZE GRENADE HAND PRAC M228 (E31900)

WBS Cost Elements:	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY x1000	Unit Cost \$	Specs Avail Now?	Date Revsn Avail	RFP Issue Date
Complete Round										
FY 2001	Martin Electronics Perry, FL	C/FP	OSC, Rock Island, IL	Feb 2002	Nov 2002	1462	3.17			
FY 2002	TBS	C/FP	OSC, Rock Island, IL	May 2002	May 2003	1705	2.79	Y		
FY 2003	TBS	C/FP	OSC, Rock Island, IL	May 2003	Dec 2003	2405	3.30	Y		

REMARKS: TBS - TO BE SELECTED

Exhibit P-40, Budget Item Justification Sheet

Date:

February 2002

Appropriation/Budget Activity/Serial No:
Procurement of Ammunition, Army /1/Ammunition

P-1 Item Nomenclature
GRENADE HAND FRAG DELAY M67 (E32000)

Program Elements for Code B Items:

Code:
A

Other Related Program Elements:

	Prior Years	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	To Complete	Total Prog
Proc Qty	62462			215	281	710	738	729	678	696		66509
Gross Cost	132.6	0.0	1.3	5.8	7.6	19.3	20.5	20.7	19.7	20.8		248.3
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	132.6	0.0	1.3	5.8	7.6	19.3	20.5	20.7	19.7	20.8		248.3
Initial Spares												
Total Proc Cost	132.6	0.0	1.3	5.8	7.6	19.3	20.5	20.7	19.7	20.8		248.3
Flyaway U/C												
Wpn Sys Proc U/C												

Description:

The grenade body is a 2.5 inch diameter steel sphere which is designed to burst into numerous fragments when detonated. The grenade body contains 6.5 ounces of high explosive, composition B. Each grenade is fitted with an M213 fuze that initiates the explosive charge 4 to 5 seconds after release of safety lever. This item is Code A, approved for service use.

Justification:

The FY 2003 procurement supports annual peacetime training and builds a depot level in accordance with the Army's procurement goals.

TYPE CLASSIFICATION DATE: 1971

ACQUISITION MANAGER: OSC, Rock Island, Ill

Exhibit P-5, Weapon AMMO Cost Analysis		Appropriation/Budget Activity/Serial No. Procurement of Ammunition, Army / 1 / Ammunition			P-1 Line Item Nomenclature: GRENADE HAND FRAG DELAY M67 (E32000)			Weapon System Type:			Date: February 2002		
AMMO Cost Elements	ID CD	FY 00			FY 01			FY 02			FY 03		
		TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
		\$000	x1000	\$000	\$000	x1000	\$000	\$000	x1000	\$000	\$000	x1000	\$000
AMMUNITION HARDWARE													
Load, Assemble, and Pack					1999	215	9.31	2605	281	9.26	6866	710	9.67
Body Gren Mpts					2200	217	10.14	3257	284	11.47	7555	717	10.54
*Comp B Type I Grade A (LB)					227	97	2.35	297	127	2.35	750	319	2.35
Fz Gren M213					1310	218	6.01	1475	285	5.17	4498	720	6.24
SubTotal AMMO Hardware					5736			7634			19669		
Production Support Costs													
Production Engineering					160			216			312		
Quality Assurance											7		
Interim Transportation					27			7					
Industrial Stock Support					59			63			28		
SubTotal Production Support					246			286			347		
Nonrecurring													
*Government Furnished Material					-227			-297			-750		
Subtotal													
Total					5755		26.79	7623		27.10	19266		27.15

Exhibit P-5a, Budget Procurement History and Planning

Date:
February 2002

Appropriation/Budget Activity/Serial No:
Procurement of Ammunition, Army / 1 / Ammunition

Weapon System Type:

P-1 Line Item Nomenclature:
GRENADE HAND FRAG DELAY M67 (E32000)

WBS Cost Elements:	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY x1000	Unit Cost \$	Specs Avail Now?	Date Revsn Avail	RFP Issue Date
Load, Assemble, and Pack										
FY 2001	TBS	C/FP	OSC, Rock Island, IL	Mar 2002	Jan 2003	215	9.31			
FY 2002	TBS	C/FP	OSC, Rock Island, IL	Jul 2002	May 2003	281	9.26	Y		
FY 2003	TBS	C/FP	OSC, Rock Island, IL	Mar 2003	Mar 2004	710	9.67	Y		
Body Gren Mpts										
FY 2001	TBS	C/FP	OSC, Rock Island, IL	May 2002	Oct 2002	217	10.14			
FY 2002	TBS	C/FP	OSC, Rock Island, IL	May 2002	Feb 2003	284	11.47	Y		
FY 2003	TBS	C/FP	OSC, Rock Island, IL	May 2003	Sep 2003	717	10.54	Y		
*Comp B Type I Grade A (LB)										
FY 2001	Stock Issue	N/A	N/A	N/A	N/A	97				
FY 2002	Stock Issue	N/A	N/A	N/A	N/A	127				
FY 2003	Stock Issue	N/A	N/A	N/A	N/A	319				
Fz Gren M213										
FY 2001	TBS	C/FP	OSC, Rock Island, IL	Mar 2002	Nov 2002	218	6.01			
FY 2002	TBS	C/FP	OSC, Rock Island, IL	May 2002	Feb 2003	285	5.17	Y		

REMARKS: *Government Furnished Material
TBS - To Be Selected

Exhibit P-5a, Budget Procurement History and Planning

Date:
February 2002

Appropriation/Budget Activity/Serial No:
Procurement of Ammunition, Army / 1 / Ammunition

Weapon System Type:

P-1 Line Item Nomenclature:
GRENADE HAND FRAG DELAY M67 (E32000)

WBS Cost Elements:	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY x1000	Unit Cost \$	Specs Avail Now?	Date Revsn Avail	RFP Issue Date
FY 2003	TBS	C/FP	OSC, Rock Island, IL	May 2003	Sep 2003	720	6.24	Y		

REMARKS: *Government Furnished Material
TBS - To Be Selected

Exhibit P-40, Budget Item Justification Sheet

Date:

February 2002

Appropriation/Budget Activity/Serial No:
Procurement of Ammunition, Army /1/Ammunition

P-1 Item Nomenclature
SIGNALS, ALL TYPES (E46900)

Program Elements for Code B Items:

Code:

Other Related Program Elements:

	Prior Years	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	To Complete	Total Prog
Proc Qty												
Gross Cost	334.0	7.2	4.4	7.0	3.7	11.9	9.6	9.1	12.2	12.5		411.5
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	334.0	7.2	4.4	7.0	3.7	11.9	9.6	9.1	12.2	12.5		411.5
Initial Spares												
Total Proc Cost	334.0	7.2	4.4	7.0	3.7	11.9	9.6	9.1	12.2	12.5		411.5
Flyaway U/C												
Wpn Sys Proc U/C												

Description:

This budget line includes SIGNALS ALL TYPES

These items are used by Army Forces in battlefield signalling, illumination, and obscurant screening operations.

Non-add Cost of War funding to allow full training of troops to meet standards is provided as follows:

- FY 2003 \$0.9 million
- FY 2004 \$0.9 million
- FY 2005 \$0.9 million
- FY 2006 \$0.9 million
- FY 2007 \$0.9 million

Exhibit P-5, Weapon AMMO Cost Analysis		Appropriation/Budget Activity/Serial No. Procurement of Ammunition, Army / 1 / Ammunition			P-1 Line Item Nomenclature: SIGNALS, ALL TYPES (E46900)			Weapon System Type:			Date: February 2002		
AMMO Cost Elements	ID CD	FY 00			FY 01			FY 02			FY 03		
		TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
		\$000	Each	\$	\$000	Each	\$	\$000	Each	\$	\$000	Each	\$
SIGNAL KIT PERSONEL DISTRESS RED RP					1298	25	51.92	5					
SIGNAL ILLUM GND WS CLUSTER M159					1112	31	36.70	1138	32	35.56	2310	63	36.79
SIGNAL ILLUM GND WS PARA M127A1					2369	65	36.53	1799	49	36.71	1000	25	39.52
SIGNAL ILLUM GND GS CLUSTER M125A1					95			725	20	36.25	1195	32	37.34
FLARE SURFACE TRIP M49 SERIES					1995	64	31.17				5228	123	42.50
SMOKE POT PRACTICE M8					126	15	8.40						
FLARE, INFRARED, COUNTERMEASURE, XM211											2202	15	146.80
----- Cost of War funding detailed on the P-40 is not included on this form.													
Total					6995			3667			11935		

Exhibit P-40, Budget Item Justification Sheet

Date:

February 2002

Appropriation/Budget Activity/Serial No:
Procurement of Ammunition, Army /1/Ammunition

P-1 Item Nomenclature
FLARE SURFACE TRIP M49 SERIES (E49200)

Program Elements for Code B Items:

Code:
A

Other Related Program Elements:

	Prior Years	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	To Complete	Total Prog
Proc Qty	14980			64		123	83	55	77	76		15458
Gross Cost	44.8	0.0	0.4	2.0		5.2	3.6	2.5	3.5	3.6		65.7
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	44.8	0.0	0.4	2.0		5.2	3.6	2.5	3.5	3.6		65.7
Initial Spares												
Total Proc Cost	44.8	0.0	0.4	2.0		5.2	3.6	2.5	3.5	3.6		65.7
Flyaway U/C												
Wpn Sys Proc U/C												

Description:

The M49 Surface Trip Flare consists of an illuminant assembly, cover loading assembly, and mounting bracket assembly. The M49 is activated by a trip wire attached to a trigger mechanism. Upon activation, the flare is ignited providing a light intensity of 35,000 candle power for approximately one minute. The M49 is used to provide warning of infiltrating enemy troops. This item is Code A, approved for service use.

Justification:

This is a training standard item used in both training and combat operations. The FY 2003 procurement supports annual peactime training and builds a war reserve level in accordance with the Army's procurement goals.

TYPE CLASSIFICATION DATE: 1975

ACQUISITION MANAGER: OSC, Rock Island, IL.

Non-add Cost of War funding to allow full training of troops to meet standards is provided as follows:

- FY 2003 22 thousand rounds/\$0.946 million
- FY 2004 22 thousand rounds/\$0.946 million
- FY 2005 21 thousand rounds/\$0.946 million
- FY 2006 21 thousand rounds/\$0.946 million
- FY 2007 20 thousand rounds/\$0.946 million

Exhibit P-5, Weapon AMMO Cost Analysis		Appropriation/Budget Activity/Serial No. Procurement of Ammunition, Army / 1 / Ammunition			P-1 Line Item Nomenclature: FLARE SURFACE TRIP M49 SERIES (E49200)			Weapon System Type:			Date: February 2002		
AMMO Cost Elements	ID CD	FY 00			FY 01			FY 02			FY 03		
		TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
		\$000	x1000	\$000	\$000	x1000	\$000	\$000	x1000	\$000	\$000	x1000	\$000
AMMUNITION HARDWARE													
Complete Round					1932	64	30.00				5134	123	41.58
SubTotal AMMO Hardware					1932						5134		
Production Support Costs													
Production Engineering					30						87		
Quality Assurance					5								
Industrial Stock Support					28						7		
SubTotal Prod. Support					63						94		
----- Cost of War funding detailed on the P-40 is not included on this form.													
Total					1995		30.97				5228		42.34

Exhibit P-5a, Budget Procurement History and Planning

Date:
February 2002

Appropriation/Budget Activity/Serial No: Procurement of Ammunition, Army / 1 / Ammunition		Weapon System Type:			P-1 Line Item Nomenclature: FLARE SURFACE TRIP M49 SERIES (E49200)					
WBS Cost Elements:	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY x1000	Unit Cost \$	Specs Avail Now?	Date Revsn Avail	RFP Issue Date
Complete Round FY 2001 FY 2003	To Be Selected To Be Selected	C/FP C/FP	OSC, Rock Island, IL OSC, Rock Island, IL	Jun 2002 Mar 2003	Dec 2003 May 2004	64 123	30.00 41.58	Y		

REMARKS: TBS - To Be Selected

Non-add Cost of War funding to allow full training of troops to meet standards is provided in FY 2003 as follows: \$0.946 million to buy a quantity of 22 thousand rounds. Contract will be C/FP. Contractor is to be selected. The PCO is located at OSC, Rock Island, IL. Contract will be awarded with a planned procurement buy.

Exhibit P-40, Budget Item Justification Sheet

Date: February 2002

Appropriation/Budget Activity/Serial No:
Procurement of Ammunition, Army /1/Ammunition

P-1 Item Nomenclature
SIMULATORS, ALL TYPES (E51200)

Program Elements for Code B Items:

Code:

Other Related Program Elements:

	Prior Years	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	To Complete	Total Prog
Proc Qty												
Gross Cost	212.9	3.6	2.3	2.5	3.4	3.9	3.9	4.8	5.7	5.5		248.5
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	212.9	3.6	2.3	2.5	3.4	3.9	3.9	4.8	5.7	5.5		248.5
Initial Spares												
Total Proc Cost	212.9	3.6	2.3	2.5	3.4	3.9	3.9	4.8	5.7	5.5		248.5
Flyaway U/C												
Wpn Sys Proc U/C												

Description:

This budget line includes SIMULATORS ALL TYPES.

These items are used to support Army training efforts and they simulate combat battlefield noise, obscuration, and explosions.

Exhibit P-5, Weapon AMMO Cost Analysis		Appropriation/Budget Activity/Serial No. Procurement of Ammunition, Army / 1 / Ammunition			P-1 Line Item Nomenclature: SIMULATORS, ALL TYPES (E51200)			Weapon System Type:			Date: February 2002		
AMMO Cost Elements	ID CD	FY 00			FY 01			FY 02			FY 03		
		TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
		\$000	x1000	\$	\$000	x1000	\$	\$000	x1000	\$	\$000	x1000	\$
SIMULATOR PROJ AIRBURST M74					96								
SIMULATOR BOOBY TRAP FLASH M117					72						144	14	10.06
SIMULATOR HAND GRENADE M116A1					680	179	0.40	674	170	3.97	1766	467	3.78
SIMULATOR MAIN TANK GUN XM28					889	285	3.12	1712	1040	0.20	2032	1219	1.67
SIMULATOR DIR/INDIR FIRE CUE XM31					800	150	5.33	999	150	0.70			
SIMULATOR PROJ AIRBURST M74													
Total					2537			3385			3942		

Exhibit P-40, Budget Item Justification Sheet

Date: February 2002

Appropriation/Budget Activity/Serial No:
Procurement of Ammunition, Army /1/Ammunition

P-1 Item Nomenclature
AMMO COMPONENTS, ALL TYPES (EB0016)

Program Elements for Code B Items:

Code:

Other Related Program Elements:

	Prior Years	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	To Complete	Total Prog
Proc Qty												
Gross Cost	765.3	3.8	3.4	4.4	6.8	8.0	9.6	10.9	12.2	12.5		836.9
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	765.3	3.8	3.4	4.4	6.8	8.0	9.6	10.9	12.2	12.5		836.9
Initial Spares												
Total Proc Cost	765.3	3.8	3.4	4.4	6.8	8.0	9.6	10.9	12.2	12.5		836.9
Flyaway U/C												
Wpn Sys Proc U/C												

Description:

This budget line includes all Ammo Components/Support Items.

Exhibit P-5, Weapon AMMO Cost Analysis		Appropriation/Budget Activity/Serial No. Procurement of Ammunition, Army / 1 / Ammunition			P-1 Line Item Nomenclature: AMMO COMPONENTS, ALL TYPES (EB0016)			Weapon System Type:			Date: February 2002		
AMMO Cost Elements	ID CD	FY 00			FY 01			FY 02			FY 03		
		TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
		\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000
COMPONENTS FOR RENO OF FIELD STOCK WEAPONS COMP/ SPT OF PROOF/ACPT TEST					3199 1205			5853 974			6958 995		
Total					4404			6827			7953		

Exhibit P-40, Budget Item Justification Sheet

Date:

February 2002

Appropriation/Budget Activity/Serial No:
Procurement of Ammunition, Army /1/Ammunition

P-1 Item Nomenclature
COMPONENTS FOR RENOVATION OF FIELD STOCK (EA0500)

Program Elements for Code B Items:

Code:

Other Related Program Elements:

	Prior Years	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	To Complete	Total Prog
Proc Qty												
Gross Cost	503.0	2.4	2.1	3.2	5.9	7.0	8.6	9.9	11.2	11.4		564.7
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	503.0	2.4	2.1	3.2	5.9	7.0	8.6	9.9	11.2	11.4		564.7
Initial Spares												
Total Proc Cost	503.0	2.4	2.1	3.2	5.9	7.0	8.6	9.9	11.2	11.4		564.7
Flyaway U/C												
Wpn Sys Proc U/C												

Description:

These components are used to support the renovation of ammunition items currently in the Army inventory. All components are centrally managed and procured by the Operations Support Command. Items support worldwide ammunition requirements in order to maintain the inventory in a serviceable status ready for issue to the troops.

Justification:

The components are required to bring stocks that are no longer in an issuable condition back to an issuable condition. The alternative is to fill requirements with new procurement. It is much more cost effective to correct most stockpile deficiencies through renovation than through new procurement.

ACQUISITION MANAGER:

OSC, Rock Island, Ill

Exhibit P-40, Budget Item Justification Sheet

Date:

February 2002

Appropriation/Budget Activity/Serial No:
Procurement of Ammunition, Army /1/Ammunition

P-1 Item Nomenclature
Non-Lethal Ammunition, All Types (E91901)

Program Elements for Code B Items:

Code:

Other Related Program Elements:

	Prior Years	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	To Complete	Total Prog
Proc Qty												
Gross Cost	1.2	5.9	14.2	18.7	20.4	5.9	5.9	5.9				78.1
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	1.2	5.9	14.2	18.7	20.4	5.9	5.9	5.9				78.1
Initial Spares												
Total Proc Cost	1.2	5.9	14.2	18.7	20.4	5.9	5.9	5.9				78.1
Flyaway U/C												
Wpn Sys Proc U/C												

Description:

This budget line item procures Non-Lethal Ammunition, All Types.

Exhibit P-5, Weapon AMMO Cost Analysis		Appropriation/Budget Activity/Serial No. Procurement of Ammunition, Army / 1 / Ammunition			P-1 Line Item Nomenclature: Non-Lethal Ammunition, All Types (E91901)			Weapon System Type:			Date: February 2002		
AMMO Cost Elements	ID CD	FY 00			FY 01			FY 02			FY 03		
		TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
		\$000	Units	\$	\$000	Units	\$	\$000	Units	\$	\$000	Units	\$
E78209 MODULAR CROWD CONTROL MUN					2277	5	456	3734	7	534			
E84900 GRENADE, STUN					273			2381	26	92			
E86400 CTG 12 GA NON-LETHAL M1012					938	176	6						
E86500 CTG 12 GAUGE CROWD DISPERSAL													
E89000 CTG 40MM NON-LETHAL M1006					1855	110	17	1960	146	14			
E91100 CTG 5.56MM RIFLE LAUNCHER M95					3046	32	96	6487	82	80			
E91800 NONLETHAL WPNS CAPABILITY SET					10324	5	2065	5850	5	1170	5890	3	1964
Total								20412			5890		

Exhibit P-40, Budget Item Justification Sheet

Date:

February 2002

Appropriation/Budget Activity/Serial No:
Procurement of Ammunition, Army /1/Ammunition

P-1 Item Nomenclature
CTG 5.56MM RIFLE LAUNCHER NON-LETHAL XM95 (E91100)

Program Elements for Code B Items:

Code:
B

Other Related Program Elements:

	Prior Years	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	To Complete	Total Prog
Proc Qty		22		32	82							136
Gross Cost		2.3		3.0	6.5							11.8
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)		2.3		3.0	6.5							11.8
Initial Spares												
Total Proc Cost		2.3		3.0	6.5							11.8
Flyaway U/C												
Wpn Sys Proc U/C												

Description:

The 5.56MM Non-Lethal round is a muzzle-launched ordnance, propelled by the use of an M195 grenade impulse cartridge. It is compatible with both the M16A4 and M4 Carbine. The item consists of a muzzle attaching launch tube and a packaged stack of rubber balls (M95) for its payload. The launched payload is intended to be non-lethal, low hazard and non-shrapnel producing, which upon impact, generates a temporary trauma to the body with the intent to confuse, disorient and/or momentarily distract/deter potential threat personnel. The Area Fire M95 is an inert item, cylindrical in shape, with an overall length of 7 inches and a diameter of 2 inches. The payload is 15 rubber coated steel balls, each being approximately 0.7 (~11/16) inches in diameter. Propulsive energy is provided by using an M195 Impulse Cartridge. Ignition of the M195 Impulse Cartridge generates the gas energy to propel and disperse the rubber coated balls to a group target. The M95 is a single shot disposable item. This item is code B, not approved for service use. This system supports the Legacy-to-Objective transition path of the Transformation Campaign Plan (TCP).

Justification:

Procurement will provide friendly forces with the capability to enforce a standoff distance from a crowd of belligerents at a range of 30-50 meters without using deadly force. This is the first generation of non-lethal munitions for the M16A2 and M4 weapon systems.

TYPE CLASSIFICATION (TC) DATE: TC LRIP August 1999
TC STD: July 2002

ACQUISITION MANAGER: Office of Product Manager Small Arms

Exhibit P-5, Weapon AMMO Cost Analysis		Appropriation/Budget Activity/Serial No. Procurement of Ammunition, Army / 1 / Ammunition			P-1 Line Item Nomenclature: CTG 5.56MM RIFLE LAUNCHER NON-LETHAL XM95 (E91100)			Weapon System Type:			Date: February 2002		
AMMO Cost Elements	ID CD	FY 00			FY 01			FY 02			FY 03		
		TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
		\$000	x1000	\$000	\$000	x1000	\$000	\$000	x1000	\$000	\$000	x1000	\$000
AMMUNITION HARDWARE													
Complete Round	B				2481	32	77.53	6159	82	75.11			
SubTotal AMMO Hardware					2481			6159					
Production Support Costs													
Production Engineering					169			140					
Quality Assurance					115			94					
Acceptance Testing					115			94					
SubTotal Prod. Support					399			328					
COST - Nonrecurring													
Matériel Release					166								
SubTotal COST - Nonrecurring					166								
Total					3046		95.19	6487		79.59			

Exhibit P-5a, Budget Procurement History and Planning

Date:
February 2002

Appropriation/Budget Activity/Serial No:
Procurement of Ammunition, Army / 1 / Ammunition

Weapon System Type:

P-1 Line Item Nomenclature:
CTG 5.56MM RIFLE LAUNCHER NON-LETHAL XM95 (E91100)

WBS Cost Elements:	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY x1000	Unit Cost \$	Specs Avail Now?	Date Revsn Avail	RFP Issue Date
Complete Round										
FY 1999	Alliant Techsystems MN	SS/OPTION	TACOM-ARDEC	Feb 00	Sep 00	22	90.09			
FY 2001	Alliant Techsystems MN	SS/OPTION	TACOM-ARDEC	Jul 02	Apr 03	32	77.53	Yes		
FY 2002	Alliant Techsystems MN	SS/OPTION	TACOM-ARDEC	Jul 02	Jul 03	82	75.11	Yes		

REMARKS:

Exhibit P-40, Budget Item Justification Sheet

Date:

February 2002

Appropriation/Budget Activity/Serial No:
Procurement of Ammunition, Army /1/Ammunition

P-1 Item Nomenclature
NONLETHAL WEAPONS CAPABILITY SET (E91800)

Program Elements for Code B Items:

Code:
B

Other Related Program Elements:

	Prior Years	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	To Complete	Total Prog
Proc Qty			5	5	5	3	3	3				24
Gross Cost			7.7	10.3	5.9	5.9	5.9	5.9				41.5
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)			7.7	10.3	5.9	5.9	5.9	5.9				41.5
Initial Spares												
Total Proc Cost			7.7	10.3	5.9	5.9	5.9	5.9				41.5
Flyaway U/C												
Wpn Sys Proc U/C												

Description:

The Non-Lethal Weapons Capability Set (NLCS) includes Soldier Protection Items, non-lethal munitions, training items and other items. The sets will provide a call forward capability to the CINC's, and will be upgraded as technology improves. This item is type classified B, not approved for service use. This system supports the Legacy-to-Objective transition path of the Transformation Campaign Plan (TCP).

Justification:

The FY 2003 procurement will buy three NLCS to provide the friendly force a non-lethal means to temporarily distract/disorient non-combatants.

TYPE CLASSIFICATION: All components of the NLCS are either on a GSA contract or will be type classified as separate systems.

ACQUISITION MANAGER: Project Manager, Mines Countermeasure and Demolitions (PM-MCD)

Exhibit P-5, Weapon AMMO Cost Analysis		Appropriation/Budget Activity/Serial No. Procurement of Ammunition, Army / 1 / Ammunition			P-1 Line Item Nomenclature: NONLETHAL WEAPONS CAPABILITY SET (E91800)			Weapon System Type:			Date: February 2002		
AMMO Cost Elements	ID CD	FY 00			FY 01			FY 02			FY 03		
		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													
Set Configuration					1500	5	300	971	5	195	1231	3	411
PVAB					3100	90	35				1778	45	40
Small Caliber Ammo Non-Lethal Sets					850	5	170	600	5	120	360	3	120
66mm Non-Lethal Ammo Sets					1719	5	344	640	5	128	384	3	128
Hardware Subtotal					7169			2211			3753		
Production Support													
Production Engineering					1133			709			630		
Quality Assurance					308			200			240		
Industrial Stock Support					250			150			150		
Integrated Logistics Support					450			400			250		
Urgent Fielding Materiel Release					518			600					
Product Improvements					272			180			250		
Engineering Contingency					224						617		
Subtotal					3155			2239			2137		
Non-Recurring Costs													
Special Tooling & Test Support													
Health / Hazard Assessment								400					
PVAB Product Improvement								1000					
Subtotal								1400					
Total					10324			5850			5890		

Exhibit P-5a, Budget Procurement History and Planning

Date:
February 2002

Appropriation/Budget Activity/Serial No: Procurement of Ammunition, Army / 1 / Ammunition		Weapon System Type:			P-1 Line Item Nomenclature: NONLETHAL WEAPONS CAPABILITY SET (E91800)					
WBS Cost Elements:	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY Units	Unit Cost \$	Specs Avail Now?	Date Revsn Avail	RFP Issue Date
Set Configuration										
FY 2001	Aardvark Arcadia, CA	Option	ARDEC	Apr 01	Sep 01	5	300	Yes		
FY 2002	Aardvark Arcadia, CA	Option	ARDEC	Apr 02	Dec 02	5	195	Yes		
FY 2003	Aardvark Arcadia, CA	Option	ARDEC	Apr 03	Dec 03	3	411	Yes		
PVAB										
FY 2001	General Dynamics St.Petersburg, FL	SS/FP	ARDEC	Feb 02	May 02	90	35	Yes		
FY 2003	General Dynamics St.Petersburg, FL	Option	ARDEC	Jan 03	Jun 03	45	40	Yes		
Small Caliber Ammo Non-Lethal Sets										
FY 2001	PM Small Arms Picatinny Arsenal, NJ	Misc	ARDEC	Sep 01	May 02	5	170	Yes		
FY 2002	PM Small Arms Picatinny Arsenal, NJ	Misc	ARDEC	Mar 02	Oct 02	5	120	Yes		
FY 2003	PM Small Arms Picatinny Arsenal, NJ	Misc	ARDEC	Apr 03	Dec 03	3	120	Yes		
66mm Non-Lethal Ammo Sets										
FY 2001	Pine Bluff Arsenal Pine Bluff, AR	SS/FP	OSC	Oct 01	Dec 02	5	344	Yes		
FY 2001	Paines Wessex Defence Salisbury, UK	SS/FP	SBCCOM	Oct 01	Mar 02	5	344	Yes		
FY 2002	Pine Bluff Arsenal Pine Bluff, AR	SS/FP	OSC	Apr 02	Feb 03	5	128	Yes		

REMARKS: Small Caliber Ammo NL Sets include: Ctg, Dummy 12 Gauge; 12 Gauge (Point) Round, M1012; 12 Gauge (Area) Round, M1013; 40MM Sponge Grenade, M1006 and 40MM Area Round, CDC, M1029. 66MM NL Ammo Sets include: 66MM Canister (Rubber Ball) XM99; 66MM Canister (Diversionary Flash Bang), XM98; L96A1 Crowd Control Grenade, Anti-Riot, Irritant, CS; and L97A1 Crowd Control Genade, Anti-Riot, Practice.

FY01 unit prices are actual for the two producers
Unit prices fluctuations are due to different mixes in the sets.

Exhibit P-5a, Budget Procurement History and Planning

Date:
February 2002

Appropriation/Budget Activity/Serial No:
Procurement of Ammunition, Army / 1 / Ammunition

Weapon System Type:

P-1 Line Item Nomenclature:
NONLETHAL WEAPONS CAPABILITY SET (E91800)

WBS Cost Elements:	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY Units	Unit Cost \$	Specs Avail Now?	Date Revsn Avail	RFP Issue Date
FY 2002	Paines Wessex Defence Salisbury, UK	SS/FP	SBCCOM	Apr 02	Oct 02	5	128	Yes		
FY 2003	Pine Bluff Arsenal Pine Bluff, AR	SS/FP	OSC	Jan 03	Oct 03	3	128	Yes		
FY 2003	Paines Wessex Defence Salisbury, UK	SS/FP	SBCCOM	Jan 03	Jul 03	3	128	Yes		

REMARKS: Small Caliber Ammo NL Sets include: Ctg, Dummy 12 Gauge; 12 Gauge (Point) Round, M1012; 12 Gauge (Area) Round, M1013; 40MM Sponge Grenade, M1006 and 40MM Area Round, CDC, M1029. 66MM NL Ammo Sets include: 66MM Canister (Rubber Ball) XM99; 66MM Canister (Diversionary Flash Bang), XM98; L96A1 Crowd Control Grenade, Anti-Riot, Irritant, CS; and L97A1 Crowd Control Genade, Anti-Riot, Practice.

FY01 unit prices are actual for the two producers
Unit prices flucuations are due to different mixes in the sets.

Exhibit P-40, Budget Item Justification Sheet

Date:

February 2002

Appropriation/Budget Activity/Serial No:
Procurement of Ammunition, Army /1/Ammunition

P-1 Item Nomenclature
CAD/PAD ALL TYPES (EA0003)

Program Elements for Code B Items:

Code:

Other Related Program Elements:

	Prior Years	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	To Complete	Total Prog
Proc Qty												
Gross Cost	64.1	2.3	1.9	4.3	5.0	4.8	4.9	4.9	5.1	5.2		102.4
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	64.1	2.3	1.9	4.3	5.0	4.8	4.9	4.9	5.1	5.2		102.4
Initial Spares												
Total Proc Cost	64.1	2.3	1.9	4.3	5.0	4.8	4.9	4.9	5.1	5.2		102.4
Flyaway U/C												
Wpn Sys Proc U/C												

Description:

Cartridge Actuated Devices (CAD) and Propellant Actuated Devices (PAD) are used in various escape and jettison systems on all types of Army aircraft.

Justification:

Required to support aircraft escape and jettison systems and mission essential needs. Items are subject to shelf and service life restrictions and, therefore, require replacement at specified intervals. The FY 2003 program is required to assure availability of replacement items when needed and avoid grounding aircraft or rendering aircraft partially mission capable.

Exhibit P-40, Budget Item Justification Sheet

Date:

February 2002

Appropriation/Budget Activity/Serial No:
Procurement of Ammunition, Army /1/Ammunition

P-1 Item Nomenclature
ITEMS LESS THAN \$5 MILLION (EA0055)

Program Elements for Code B Items:

Code:

Other Related Program Elements:

	Prior Years	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	To Complete	Total Prog
Proc Qty												
Gross Cost	581.4	8.5	8.2	10.0	12.9	8.7	9.6	10.5	12.8	11.1		673.8
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	581.4	8.5	8.2	10.0	12.9	8.7	9.6	10.5	12.8	11.1		673.8
Initial Spares												
Total Proc Cost	581.4	8.5	8.2	10.0	12.9	8.7	9.6	10.5	12.8	11.1		673.8
Flyaway U/C												
Wpn Sys Proc U/C												

Description:

This budget line includes MISCELLANEOUS AMMUNITION ITEMS UNDER \$5M.

Non-add Cost of War funding to allow full training of troops to meet standards is provided as follows:

FY 2003 \$0.3 million
 FY 2004 \$0.3 million
 FY 2005 \$0.3 million
 FY 2006 \$0.3 million
 FY 2007 \$0.3 million

Exhibit P-5, Weapon AMMO Cost Analysis		Appropriation/Budget Activity/Serial No. Procurement of Ammunition, Army / 1 / Ammunition			P-1 Line Item Nomenclature: ITEMS LESS THAN \$5 MILLION (EA0055)			Weapon System Type:			Date: February 2002		
AMMO Cost Elements	ID CD	FY 00			FY 01			FY 02			FY 03		
		TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
		\$000	x1000	\$000	\$000	x1000	\$000	\$000	x1000	\$000	\$000	x1000	\$000
CTG 10 GAUGE BLANK					95	121	0.79	95	123	0.77			
CTG 12 GAUGE SHOTGUN 00 BUCKSHOT								101	279	0.36	1676	5132	0.33
CTG CAL .22 LR MATCH F/PISTOL											251	1286	0.20
CTG .30 CAL BLANK					1062	4307	0.25	2436	10551	0.23	368	1510	0.24
RIOT CONTROL AGENT CS CAPSULE								238	293	0.81			
PROJ ARTY 155MM PRAC M804											1548	4	434.91
FUZE ARTY MOUT MK 399 MOD 1					194			195					
AMMUNITION PROGRAM SUPPORT					4999			4546			1700		
USAMTU FT BENNING					800			350			360		
NEW EQUIPMENT TRAINING					677			95			92		
LINE CHARGE INERT M68A2 F/MICLIC								116					
RIFLE LAUNCHED ENTRY MUNITION					2169	1200	1.81	2773	2300	1.21	2744	2300	1.19
SMOKELESS NITROCELLULOSE								2000					
----- Cost of War funding detailed on the P-40 is not included on this form.													
Total					9996			12945			8739		

Exhibit P-40, Budget Item Justification Sheet

Date:

February 2002

Appropriation/Budget Activity/Serial No:
Procurement of Ammunition, Army /1/Ammunition

P-1 Item Nomenclature
AMMUNITION PECULIAR EQUIPMENT (EA0575)

Program Elements for Code B Items:

Code:

Other Related Program Elements:

	Prior Years	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	To Complete	Total Prog
Proc Qty												
Gross Cost	89.6	10.3	11.6	7.8	8.8	4.8	7.6	7.5	8.0	8.2		164.1
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	89.6	10.3	11.6	7.8	8.8	4.8	7.6	7.5	8.0	8.2		164.1
Initial Spares												
Total Proc Cost	89.6	10.3	11.6	7.8	8.8	4.8	7.6	7.5	8.0	8.2		164.1
Flyaway U/C												
Wpn Sys Proc U/C												

Description:

Ammunition Peculiar Equipment (APE) is unique, low density equipment items specifically designed, fabricated, tested, procured, and adopted for use in ammunition depot operations in conventional and chemical ammunition. These depot operations involve maintenance, demilitarization, preservation/packaging, and surveillance functions on the ammunition item. APE is not stocked nor is it available from commercial sources. This equipment is different from production line plant equipment in that it disassembles ammunition items into components, usually for the removal of a hazardous component. APE is also designed to perform cleaning and renovation functions on ammunition subjected to deterioration effects (rust, corrosion, weathering, etc) during its storage life. APE supporting surveillance is keyed to stockpile sampling and function tests of the items to assure readiness for combat or training. Demilitarization APE is similar somewhat to maintenance APE but must go further in disassembly to destroy hazardous components and reclaim salvageable parts or metals. APE is designed, developed, and fielded to support ammunition field service stocks that are currently on hand in the inventory control point and is used to restore these stocks to an issuance/serviceable condition.

Justification:

The APE and replacement parts must be on-hand to perform any of the ammunition depot operations for conventional and chemical ammunition. The ammunition depot operations cannot be accomplished if the required APE is not supplied in a timely manner. The equipment is loaned to worldwide locations for the accomplishment of depot type operations based on the ammunition requirements. The equipment described herein is required to support the following ammunition programs: Integrated Conventional Ammunition Maintenance Plan (ICAMP); surveillance program for lethal chemical agents and munitions; equipment for worldwide maintenance lines; equipment to support the toxic chemical maintenance facilities; Prepositioned Ships; and also to support Government-owned, contractor-operated plants as Government Furnished Equipment (GFE) in support of ammunition depot operations at those locations.

APE is centrally managed by HQ, OSC

Exhibit P-40, Budget Item Justification Sheet

Date:

February 2002

Appropriation/Budget Activity/Serial No:
Procurement of Ammunition, Army /1/Ammunition

P-1 Item Nomenclature
FIRST DESTINATION TRANSPORTATION (AMMO) (EA0550)

Program Elements for Code B Items:

Code:

Other Related Program Elements:

	Prior Years	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	To Complete	Total Prog
Proc Qty												
Gross Cost	723.6	5.4	6.8	7.8	5.2	5.8	8.3	8.1	8.5	8.7		788.3
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	723.6	5.4	6.8	7.8	5.2	5.8	8.3	8.1	8.5	8.7		788.3
Initial Spares												
Total Proc Cost	723.6	5.4	6.8	7.8	5.2	5.8	8.3	8.1	8.5	8.7		788.3
Flyaway U/C												
Wpn Sys Proc U/C												

Description:

Transportation funds are required to support the distribution of Army ammunition end items from manufacturing plants or assembly points, e.g., Army Ammunition Plants (AAPs), Defense Contract Management Agencies, or Procedure A and B contractors to a CONUS depot, customer, or other point of first acceptance into the Army supply system or to a port destined for OCONUS customers. These funds directly support training and readiness requirements of soldiers in the field (CONUS and OCONUS) to include major OCONUS programs such as Preposition War Reserves (PPWR) for Europe and Korea, training for Europe and Korea, and War Reserve Support Allies (WRSA) for Korea/Thailand.

Exhibit P-40, Budget Item Justification Sheet

Date:

February 2002

Appropriation/Budget Activity/Serial No:
Procurement of Ammunition, Army /1/Ammunition

P-1 Item Nomenclature
CLOSEOUT LIABILITIES (EA8500)

Program Elements for Code B Items:

Code:

Other Related Program Elements:

	Prior Years	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	To Complete	Total Prog
Proc Qty												
Gross Cost		125.2		5.7	32.0	10.0						172.9
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)		125.2		5.7	32.0	10.0						172.9
Initial Spares												
Total Proc Cost		125.2		5.7	32.0	10.0						172.9
Flyaway U/C												
Wpn Sys Proc U/C												

Description:

Funding will pay the increment of contract termination cost and operational losses to ensure the solvency of the Conventional Ammunition Working Capital Fund (CAWCF) as the fund closes out and as a result of contract competitions.

Justification:

Funding is required to pay contract termination cost, e.g., unfunded pension liabilities, severance pay, and inventory at ammunition plants. Additionally, funds will pay for losses in the CAWCF as it closes out.

Exhibit P-5, Weapon AMMO Cost Analysis		Appropriation/Budget Activity/Serial No. Procurement of Ammunition, Army / 1 / Ammunition			P-1 Line Item Nomenclature: CLOSEOUT LIABILITIES (EA8500)			Weapon System Type:			Date: February 2002		
AMMO Cost Elements	ID CD	FY 00			FY 01			FY 02			FY 03		
		TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
		\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000
CAWCF LOSSES					5724			26994					
CLOSEOUT LIABILITIES - LAP COMPETITION											1000		
RADFORD AAP CONTRACT CLOSEOUT COSTS								4995			9017		
Total					5724			31989			10017		

Exhibit P-40, Budget Item Justification Sheet

Date:

February 2002

Appropriation/Budget Activity/Serial No:
Procurement of Ammunition, Army /2/Ammunition production base support

P-1 Item Nomenclature
PROVISION OF INDUSTRIAL FACILITIES (EP1000)

Program Elements for Code B Items:

Code:

Other Related Program Elements:

	Prior Years	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	To Complete	Total Prog
Proc Qty												
Gross Cost	3712.8	45.4	48.1	50.9	57.1	42.7	37.5	34.0	40.4	40.1		4108.9
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	3712.8	45.4	48.1	50.9	57.1	42.7	37.5	34.0	40.4	40.1		4108.9
Initial Spares												
Total Proc Cost	3712.8	45.4	48.1	50.9	57.1	42.7	37.5	34.0	40.4	40.1		4108.9
Flyaway U/C												
Wpn Sys Proc U/C												

Description:

This budget line includes Provision of Industrial Facilities (EP1200)

Exhibit P-40, Budget Item Justification Sheet

Date:

February 2002

Appropriation/Budget Activity/Serial No:
Procurement of Ammunition, Army /2/Ammunition production base support

P-1 Item Nomenclature
INDUSTRIAL FACILITIES (EP1200)

Program Elements for Code B Items:

Code:

Other Related Program Elements:

	Prior Years	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	To Complete	Total Prog
Proc Qty												
Gross Cost	3712.8	45.4	48.1	50.9	57.1	42.7	37.5	34.0	40.4	40.1		4108.9
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	3712.8	45.4	48.1	50.9	57.1	42.7	37.5	34.0	40.4	40.1		4108.9
Initial Spares												
Total Proc Cost	3712.8	45.4	48.1	50.9	57.1	42.7	37.5	34.0	40.4	40.1		4108.9
Flyaway U/C												
Wpn Sys Proc U/C												

Description:

The Industrial Facilities (IF) budget request contains funding for correction of environmental deficiencies at existing facilities, replacement of obsolete or worn production equipment, and correction of infrastructure.

	FY 2003
Environmental	\$11.2
Production Support	\$31.4
T O T A L	\$42.6

Justification:

Funds are used for the establishment, augmentation, and improvement of production capability for items procured under the ammunition appropriations to include correction of infrastructure in the area of sewers, electrical, and water distribution rehabilitation. Funds also correct environmental problems which, if left unfunded, would result in costly fines and penalties against the Army.

Exhibit P-40C, Budget Item Justification Sheet

Date:

February 2002

Appropriation/Budget Activity/Serial No:
Procurement of Ammunition, Army /2/Ammunition production base support

P-1 Item Nomenclature

INDUSTRIAL FACILITIES (EP1200)

Program Elements for Code B Items:

Code:

Other Related Program Elements:

<u>Location</u>	<u>Project Title</u>	<u>Project</u>	<u>FY 2001</u>	<u>FY 2002</u>	<u>FY 2003</u>
<u>Production Support</u>					
Holston Army Ammunition Plant	Explosive Manufacturing Alternatives Team (XMAT) Facility Initiative Continuation	5XX1000			
Iowa , Lone Star, Milan and Kansas Ammunition Plant	Load, Assemble and Pack - Capital Investments/Facility Initiatives	5XX3399	4659	24590	11027
Iowa Army Ammunition Plant	Install Steam Line to Line 3A from Main Heating Plant	5012998	4310		
Kansas Army Ammunition Plant	Replace Roof on Building 101	5013412	505		
Lake City Army Ammunition Plant	Restore Link Production	5013510	4479		
Lone Star Army Ammunition Plant	M53 Delay Capability Restoration	5013409	1230		
Multiple Army Ammunition Plants	Anti-Terrorism/Force Protection	5033415			3391
Radford Army Ammunition Plant	Replace Acid Tank Aluminum-1 (AL-1), Acid Area	5013391	1187		
Radford Army Ammunition Plant	Capital Investment Plan/Facility Initiatives	5XX3407	2647	4921	5000
Research & Develop Center	Production Base Readiness Support	5XX3040	900		
Riverbank Army Ammunition Plant	Activation of Grenade Metal Parts Line	5013408	3000		
Various Army Ammunition Plants	Industrial Facilities Minor Efforts	5013000	200		

Exhibit P-40C, Budget Item Justification Sheet

Date:

February 2002

Appropriation/Budget Activity/Serial No:
Procurement of Ammunition, Army /2/Ammunition production base support

P-1 Item Nomenclature
INDUSTRIAL FACILITIES (EP1200)

Program Elements for Code B Items:

Code:

Other Related Program Elements:

<u>Location</u>	<u>Project Title</u>	<u>Project</u>	<u>FY 2000</u>	<u>FY 2001</u>	<u>FY 2002</u>	<u>FY 2003</u>
<u>Production Support (continued)</u>						
Various Army Ammunition Plants	Engineering in Support of Industrial Facilities	5XX3046		396	1222	415
Yuma Proving Gnd/Aberdeen Test Center	Production Support and Equipment Replacement (PSR)	0XX5060		1182	999	999
Subtotal - Production				24,695	31,732	20,832
<u>Environmental</u>						
Iowa Army Ammunition Plant	Pink Water Treatment, 3A-05-2	5013344		1349		
Iowa, Lone Star, Milan and Kansas Army Ammunition Plants	Load, Assmble and Pack Facilities - Environmental Upgrades	5XX3399			6823	5524
Milan Army Ammunition Plant	Rehabilitate/Replace Sewage Collection System	5013384		1289		
Milan Army Ammunition Plant	Boiler Conversion at K-Line	5013392		1062		
Milan Army Ammunition Plant	Upgrade Sewage Treatment Plant/Rehabilitate Main Sewage Treatment Collection Lines	5XX2943		1160		
Radford Army Ammunition Plant	Dike Repairs	5012924		2489		
Radford Army Ammunition Plant	Acid Sewer System Upgrade	5012925		3463		
Radford Army Ammunition Plant	Capital Improvement Plan - Environmental Upgrades	5XX3407			7150	3999

Exhibit P-40C, Budget Item Justification Sheet

Date:

February 2002

Appropriation/Budget Activity/Serial No:

Procurement of Ammunition, Army /2/Ammunition production base support

P-1 Item Nomenclature

INDUSTRIAL FACILITIES (EP1200)

Program Elements for Code B Items:

Code:

Other Related Program Elements:

<u>Location</u>	<u>Project Title</u>	<u>Project</u>	<u>FY 2000</u>	<u>FY 2001</u>	<u>FY 2002</u>	<u>FY 2003</u>
<u>Environmental (continued)</u>						
Scranton Army Ammunition Plant	Replace PCB Transformers	5013324		1300		
Scranton Army Ammunition Plant	Seal Waste Oil Pits, Forge Shops, and Heat Treat, Phase II	5XX3404				1700
Subtotal - Environmental				12,112	13,973	11,223
Total Industrial Facilities				36,807	45,705	32,055

Exhibit P-25 Industrial Facilities Cost Analysis (Dollars in Thousands)

1. Date: February 2002

2. Project Title/Type: Explosive Manufacturing Alternatives Team (XMAT) Facility Initiative Continuation
 3. End Item Supported Model: Research Department Explosive (RDX)/High Melt Explosive (HMX)

4. Project Number: 5XX1000
 5. Annual Capacity Before (1-8-5): Not Applicable
 6. Annual Capacity After (1-8-5): Not Applicable

Element of Cost	FY 00	FY 01	FY 02	FY 03	H. Facility						
A. Construction Cost B. Equipment Costs (Individual equipment cost should be specified for all equipment costing more than \$0.5 Million) 1. 2. 3. Subtotal Equipment Cost C. Equipment Installation Cost D. Contractor Support Cost E. Corps of Engineers Support Cost F. Other In-houses Support Costs Total Facility Project Cost G. Other Costs 1. Facility Prove-out Cost 2. Military Construction Appn.					1. Name	Holston Army Ammunition Plant					
					2. Location	Kingsport, Tennessee					
					3. Type (GOGO, GOCO, COCO)	GOCO					
					I. Related Projects						
					Project Number	Title	FY & Appn	Value (\$ Mil)	Facing	Start Date	Compl Date
					1000	XMAT Facility Initiative	FY 04	10.000	No	N/A	N/A
					1000	XMAT Facility Initiative	FY 05	9.300	No	N/A	N/A
					1000	XMAT Facility Initiative	FY 06	9.100	No	N/A	N/A
					1000	XMAT Facility Initiative	FY 07	8.800	No	N/A	N/A
			14069	11440	10600	J. Principal Milestones			Month & Year		
					1. Concept Design Complete				Not Applicable		
					2. Final Design Complete				Not Applicable		
					3. Initial/Final Project Award				Not Applicable		
					4. Construction Complete				Not Applicable		
					5. Equipment Installation Complete				Not Applicable		
					6. Prove Out Begins				Not Applicable		
					7. Prove Out Complete				Not Applicable		

Narrative Explanation
 This project provides funding for the operational costs at Holston Army Ammunition Plant. Operational costs include property management efforts such as maintenance of laidaway facilities and reserve capacity costs.

Exhibit P-25 Industrial Facilities Cost Analysis (Dollars in Thousands)

1. Date: February 2002

2. Project Title/Type Load, Assemble and Pack - Capital Investments/Facility Initiatives		3. End Item Supported Model Artillery, Tank, Mortar, and Mine Load Components	
4. Project Number 5XX3399	5. Annual Capacity Before (1-8-5) Not Applicable	6. Annual Capacity After (1-8-5) Not Applicable	

Element of Cost	FY 00	FY 01	FY 02	FY 03	H. Facility						
					1. Name Iowa , Lone Star, Milan and Kansas Ammunition Plant						
A. Construction Cost		4222	20972	9877	2. Location Various						
B. Equipment Costs (Individual equipment cost should be specified for all equipment costing more that \$0.5 Million)			680	333	3. Type (GOGO, GOCO, COCO) GOCO						
1.					I. Related Projects						
2.					Project Number	Title	FY & Appn	Value (\$ Mil)	Facing	Start Date	Compl Date
3.						Not Applicable					
Subtotal Equipment Cost			680	333							
C. Equipment Installation Cost		379	1231	8							
D. Contractor Support Cost		58	427	231							
E. Corps of Engineers Support Cost			1262	578	J. Principal Milestones						
F. Other In-houses Support Costs			18		Month & Year						
Total Facility Project Cost		4659	24590	11027	1. Concept Design Complete Mar 98						
G. Other Costs					2. Final Design Complete Mar 02						
1. Facility Prove-out Cost					3. Initial/Final Project Award Jan 03/Jan 03						
2. Military Construction Appn.					4. Construction Complete Jan 05						
					5. Equipment Installation Complete Not Applicable						
					6. Prove Out Begins Not Applicable						
					7. Prove Out Complete Not Applicable						

Narrative Explanation

Funds those capital investments anticipated to be identified by the successful offeror of the Load/Assemble/Pack competition. The funds will be used to accomplish plant rearrangement, equipment relocation, plant consolidation and capital improvements included in the successful offeror's contract proposal.

Exhibit P-25 Industrial Facilities Cost Analysis (Dollars in Thousands)

1. Date: February 2002

2. Project Title/Type Load, Assmble and Pack Facilities - Environmental Upgrades				3. End Item Supported Model Artillery, Tank, Mortar, and Mine Load Components							
4. Project Number 5XX3399		5. Annual Capacity Before (1-8-5) N/A		6. Annual Capacity After (1-8-5) N/A							
Element of Cost	FY 00	FY 01	FY 02	FY 03	H. Facility						
A. Construction Cost			6107	4890	1. Name <u>Iowa, Lone Star, Milan and Kansas Army Ammunition Plants</u>						
B. Equipment Costs (Individual equipment cost should be specified for all equipment costing more that \$0.5 Million)			287	190	2. Location <u>Various</u>						
1.					3. Type (GOGO, GOCO, COCO) <u>GOCO</u>						
2.					I. Related Projects						
3.					Project Number	Title	FY & Appn	Value (\$ Mil)	Facing	Start Date	Compl Date
Subtotal Equipment Cost			287	190							
C. Equipment Installation Cost			145	67							
D. Contractor Support Cost			195	143							
E. Corps of Engineers Support Cost			89	234	J. Principal Milestones			Month & Year			
F. Other In-houses Support Costs					1. Concept Design Complete			<u>Not Applicable</u>			
Total Facility Project Cost			6823	5524	2. Final Design Complete			<u>Jun 03</u>			
G. Other Costs					3. Initial/Final Project Award			<u>Nov 02/Jan 03</u>			
1. Facility Prove-out Cost					4. Construction Complete			<u>Jun 04</u>			
2. Military Construction Appn.					5. Equipment Installation Complete			<u>Jul 04</u>			
					6. Prove Out Begins			<u>Not Applicable</u>			
					7. Prove Out Complete			<u>Not Applicable</u>			

Narrative Explanation

Funds those environmental efforts anticipated to be identified by the successful offeror of the Load/Assemble/Pack Competition. The funds will be used to accomplish efforts such as sewer rehabilitation and upgrades to sediment basin at high explosive demolition ground.

Exhibit P-25 Industrial Facilities Cost Analysis (Dollars in Thousands)

1. Date: February 2002

2. Project Title/Type Capital Investment Plan/Facility Initiatives				3. End Item Supported Model Propellants and Explosives (Nitroglycerin and Nitrocellulose)							
4. Project Number 5XX3407		5. Annual Capacity Before (1-8-5) Not Applicable		6. Annual Capacity After (1-8-5) Not Applicable							
Element of Cost	FY 00	FY 01	FY 02	FY 03	H. Facility						
A. Construction Cost		773	4477		1. Name <u>Radford Army Ammunition Plant</u>						
B. Equipment Costs (Individual equipment cost should be specified for all equipment costing more that \$0.5 Million)		1089			2. Location <u>Radford, Virginia</u>						
1.					3. Type (GOGO, GOCO, COCO) <u>GOCO</u>						
2.					I. Related Projects						
3.					Project Number	Title	FY & Appn	Value (\$ Mil)	Facing	Start Date	Compl Date
						Not Applicable					
Subtotal Equipment Cost		1089			J. Principal Milestones						
C. Equipment Installation Cost		595			1. Concept Design Complete <u>Not Applicable</u>						
D. Contractor Support Cost		149	168		2. Final Design Complete <u>Not Applicable</u>						
E. Corps of Engineers Support Cost		41	255		3. Initial/Final Project Award <u>Jan 03/Mar 03</u>						
F. Other In-houses Support Costs			21	5000	4. Construction Complete <u>Not Applicable</u>						
Total Facility Project Cost		2647	4921	5000	5. Equipment Installation Complete <u>Not Applicable</u>						
G. Other Costs					6. Prove Out Begins <u>Not Applicable</u>						
1. Facility Prove-out Cost					7. Prove Out Complete <u>Not Applicable</u>						
2. Military Construction Appn.											

Narrative Explanation

This project is required to assure necessary facilities are available to meet propellant peacetime requirements at the best cost and quality, and on time delivery for all Department of Defense (DoD) customers. This effort will result in having a capacity that meets replenishment requirements.

Exhibit P-40, Budget Item Justification Sheet

Date:

February 2002

Appropriation/Budget Activity/Serial No:
Procurement of Ammunition, Army /2/Ammunition production base support

P-1 Item Nomenclature
LAYAWAY OF INDUSTRIAL FACILITIES (EP2000)

Program Elements for Code B Items:

Code:

Other Related Program Elements:

	Prior Years	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	To Complete	Total Prog
Proc Qty												
Gross Cost	551.5	23.6	11.7	6.6	13.7	7.0	10.0	9.7	9.2	9.1		652.2
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	551.5	23.6	11.7	6.6	13.7	7.0	10.0	9.7	9.2	9.1		652.2
Initial Spares												
Total Proc Cost	551.5	23.6	11.7	6.6	13.7	7.0	10.0	9.7	9.2	9.1		652.2
Flyaway U/C												
Wpn Sys Proc U/C												

Description:

This line provides for the preserving, storing, and disposing of industrial facilities and equipment that are no longer required to support current production. FY 2003 funding is required for decontamination (\$4.4M), Layaway (\$0.5M), and Modified Caretaker (\$2.1M).

Justification:

Funds are used for the protection and preservation of equipment and facilities no longer required for active production but must be retained for possible future peacetime or replenishment production needs. Included are those funds needed to cover the packaging, crating, handling, and transportation (PCH&T) costs for moving equipment to a disposal point or storage site, decontamination, and plant clearance requirements.

Exhibit P-40C, Budget Item Justification Sheet

Date:

February 2002

Appropriation/Budget Activity/Serial No:
Procurement of Ammunition, Army /2/Ammunition production base support

P-1 Item Nomenclature

LAYAWAY OF INDUSTRIAL FACILITIES (EP2000)

Program Elements for Code B Items:

Code:

Other Related Program Elements:

<u>Location</u>	<u>Project Title</u>	<u>Project</u>	<u>FY 02</u>	<u>FY 03</u>
Active and Inactive government owned facilities	Retain (RT) - Layaway (Lwy) and Downsize (DS)Minor Efforts less than \$75K	8000	0.129	0.705
Badger Army Ammunition Plant, Baraboo, Wisconsin	Disposal of Facilities	8104	1.860	0.000
Indiana Army Ammunition Plant, Charlestown, Indiana	Liquidation/Disposal of Facilities	8105	2.365	0.000
Iowa Army Ammunition Plant Middletown, Iowa	Downsize (DS) - Transition Line 5A to Modified Caretaker	8028	0.000	0.200
Joliet Army Ammunition Plant, Joliet, Illinois	Disposal of Facilities/Removal of Safety Hazards from Foundations	8216	2.950	0.781
Pine Bluff Arsenal Pine Bluff, Arkansas	Retain (RT) - Layaway Miscellaneous M825 Production Equipment and Facilities.	8011	0.000	0.100
Radford Army Ammunition Plant, Radford, Virginia	Retain - Layaway/Caretaker of Miscellaneous Facilities	8309	1.281	0.000
Ravenna Army Ammunition Plant, Ravenna, Ohio	Downsize - Decontaminate/Dispose of Excess Facilities	8114	3.658	4.204
Volunteer Army Ammunition Plant, Chatanooga, Tennessee	Downsize - Environmental Efforts for Disposal	8510	1.449	1.000
	Total		13.692	6.990

Exhibit P-40, Budget Item Justification Sheet

Date:

February 2002

Appropriation/Budget Activity/Serial No:
Procurement of Ammunition, Army /2/Ammunition production base support

P-1 Item Nomenclature
MAINTENANCE OF INACTIVE FACILITIES (EP1500)

Program Elements for Code B Items:

Code:

Other Related Program Elements:

	Prior Years	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	To Complete	Total Prog
Proc Qty												
Gross Cost	390.4	14.1	12.7	13.9	12.2	9.1	9.8	9.8	8.6	8.3		488.9
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	390.4	14.1	12.7	13.9	12.2	9.1	9.8	9.8	8.6	8.3		488.9
Initial Spares												
Total Proc Cost	390.4	14.1	12.7	13.9	12.2	9.1	9.8	9.8	8.6	8.3		488.9
Flyaway U/C												
Wpn Sys Proc U/C												

Description:

This line provides for the maintenance of laidaway portions of active plants; care and maintenance of laidaway plants; and the storage, protection, and maintenance of laidaway Government-owned equipment being stored on-site at contractor-owned plants. Detailed budget estimates, by location, are provided on the Program Cost Breakdown (P-5). The following is a summary of funds required:

- (1) Inactive Production Lines/Areas at Active Plants (FY 03 - \$3.8M)
- (2) Inactive Production Lines/Areas at Inactive Plants (FY 03 - \$5.3M)

Justification:

Funds are used for the maintenance of laidaway ammunition industrial facilities to include utilities, buildings, nonseverable equipment, plant equipment, special tooling, and special test equipment being retained as part of approved plant equipment packages (PEPs) which are required to support future replenishment requirements. Also, included is a fair share of the recurring overhead costs such as grounds maintenance, fire protection, plant security, and administrative support.

Exhibit P-5, Weapon AMMO Cost Analysis		Appropriation/Budget Activity/Serial No. Procurement of Ammunition, Army / 2 / Ammunition production base support			P-1 Line Item Nomenclature: MAINTENANCE OF INACTIVE FACILITIES (EP1500)			Weapon System Type:			Date: February 2002		
AMMO Cost Elements	ID CD	FY 00			FY 01			FY 02			FY 03		
		TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
		\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000
INACTIVE LINES AT ACTIVE PLANTS													
Crane Army Ammunition Activity					78			80			61		
Holston Army Ammunition Plant (AAP)					1705						350		
Iowa AAP					386			502			500		
Lone Star AAP					138			250			225		
McAlester AAP					442			450			343		
Milan AAP					168			150			150		
Pine Bluff Arsenal					690			2200			534		
Radford AAP					938			950			950		
Seneca/Hawthorne Army Depot					586			655			654		
SUBTOTAL					5131			5237			3767		
INACTIVE PLANTS													
Alabama AAP					22								
Badger AAP					965			950			925		
Cornhusker AAP					14			20			20		
Indiana AAP					154			300					
Joliet AAP					238			170			170		
Longhorn AAP					370			400			400		
Louisiana AAP					845			800			540		
Mississippi AAP													
Ravenna AAP					184			125			125		
Riverbank AAP					852			1100			900		
Scranton AAP					12								
Sunflower Severence					1974								
Sunflower AAP					1203			1180			600		
Twin Cities					210			220			220		
Volunteer AAP					1750			1685			1415		
SUBTOTAL					8793			6950			5315		
Total					13924			12187			9082		

Exhibit P-40, Budget Item Justification Sheet

Date: February 2002

Appropriation/Budget Activity/Serial No:
Procurement of Ammunition, Army /2/Ammunition production base support

P-1 Item Nomenclature
CONVENTIONAL AMMO DEMILITARIZATION (EP1800)

Program Elements for Code B Items:

Code:

Other Related Program Elements:

	Prior Years	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	To Complete	Total Prog
Proc Qty												
Gross Cost	541.3	85.9	85.6	75.7	72.5	50.0	73.2	84.5	88.1	114.3		1271.2
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	541.3	85.9	85.6	75.7	72.5	50.0	73.2	84.5	88.1	114.3		1271.2
Initial Spares												
Total Proc Cost	541.3	85.9	85.6	75.7	72.5	50.0	73.2	84.5	88.1	114.3		1271.2
Flyaway U/C												
Wpn Sys Proc U/C												

Description:

The conventional ammunition demilitarization program funds the disposal, demilitarization and resource recovery and recycling of conventional ammunition. This program also funds the movement of ammunition and technical support for demilitarization projects at various installations, and the commercial contracts for resource recovery/demilitarization of excess, obsolete and unserviceable ammunition. Safety demilitarization funds those ammunition assets that have become unsafe for continued storage.

Justification:

As of 30 September 2001, the conventional ammunition demilitarization account contained over 457,000 short tons of excess and obsolete ammunition. In Fiscal Year 2001, demilitarization accomplishments totaled 59,949 tons, and an additional 45,793 tons were transferred into the demilitarization stockpile. For Fiscal Year 2002, the Army expects to demilitarize approximately 42,200 tons and to transfer approximately 44,400 tons into the demilitarization stockpile. Accomplishments over the next five years should average 40,000 tons per year, with transfers into the demilitarization stockpile averaging 35,000 tons a year. At this rate, the demilitarization account should slowly decline.

The funding levels proposed at this time are adequate to minimize the worst impacts of the ammunition demilitarization inventory. As the execution agent for demilitarization of ammunition from all Services, the Army must continue to demonstrate a strong commitment to reduce the backlog and provide demilitarization services for ammunition in the demilitarization account.

Exhibit P-5, Weapon AMMO Cost Analysis		Appropriation/Budget Activity/Serial No. Procurement of Ammunition, Army / 2 / Ammunition production base support			P-1 Line Item Nomenclature: CONVENTIONAL AMMO DEMILITARIZATION (EP1800)			Weapon System Type:			Date: February 2002		
AMMO Cost Elements	ID CD	FY 00			FY 01			FY 02			FY 03		
		TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
		\$000	Tons	\$000	\$000	Tons	\$000	\$000	Tons	\$000	\$000	Tons	\$000
HC MUNITIONS/BULK HC	CH							291	105				
WP/PWP	CP				8								
RIOT CONTROL	CR												
SMOKES,HC,COLORS,FS	CS							795	210				
DEP URANIUM/TUNGSTEN CARBIDE	DU				816	772		1311	844	2	1109	800	
INCENDIARY/THERMITE	FI				529	743		112	45				
PYROTECHNICS/ILLUMINATION/NON FRAG	FP				2489	2326		1868	903	3	1300	1100	2
HE COMPONENTS/DEVICES	HA							1189	597	2			
HE BOMBS	HB				2230	1016		506	484	2			
HE CARTRIDGES	HC				2433	1621		1579	1438	2	1750	950	2
HE EXPLOSIVE D	HD				1164	450		3388	3111	2			
BULK HIGH EXPLOSIVES	HE												
HE GRENADES	HG				8			253	93				
HE DEPTH CHARGES	HH				582	244		2968	2434	2			
HE ICM/CBU AND SUBMUNITIONS WTV	HI				7788	11753		19111	8736	3	6000	6500	1
HE MISSILES	HM				23	44		186	55				
HE PROJECTILES AND WARHEADS	HP				3746	4476		5452	7304	1	3482	3712	1
HE ROCKETS	HR												
TORPEDOES	HT							562	650	1			
DEMOLITION MATERIAL	HX				967			66	59		250	220	2
HE LAND MINES	HZ				2112			172	146				
INERT	I				1466	2284		3836	4104	1	2100	2019	2
LARGE ROCKET MOTORS	LR												
BULK PROP	PB				976	1971		1238	1135		475	924	
PROPELLANT CHARGES AND INCREMENT	PC				2184	2276		6932	3898	2	2831	3488	1
PROPELLANT MUNITIONS/COMPONENTS	PD				304	271		2012	2008	2	4800	6442	1
SMALL ARMS AMMO THRU 20MM	SA				382	197		379	339	2			
INCINERABLE MUNITIONS	SC				260			1511	1102				
FUZES	SF				1721	661					1600	2410	
MULTIPLE FAMILY	MU				38806	16914		9501	1100	9	19333	8586	
NO FAMILY	N				3892								
OCONUS DEMIL	OC				840	900		7323	1300	6	5000	2000	
Total					75726			72541			50030		

Exhibit P-40, Budget Item Justification Sheet

Date: February 2002

Appropriation/Budget Activity/Serial No:
Procurement of Ammunition, Army /2/Ammunition production base support

P-1 Item Nomenclature
ARMS INITIATIVE (EP2500)

Program Elements for Code B Items:

Code:

Other Related Program Elements:

	Prior Years	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	To Complete	Total Prog
Proc Qty												
Gross Cost	216.2	10.6	27.0	20.1	14.6	4.7	4.7	4.8	3.5	3.5		309.8
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	216.2	10.6	27.0	20.1	14.6	4.7	4.7	4.8	3.5	3.5		309.8
Initial Spares												
Total Proc Cost	216.2	10.6	27.0	20.1	14.6	4.7	4.7	4.8	3.5	3.5		309.8
Flyaway U/C												
Wpn Sys Proc U/C												

Description:

The Armament Retooling and Manufacturing Support (ARMS) Initiative reuses idle capacity at active and reserve Government-owned, contractor-operated (GOCO) ammunition facilities through commercialization. Congress enacted this program in the Fiscal Year (FY) 1993 Defense Authorization Act, Public Law (PL) 102-484 and in October 2001 PL 106-398 provided additional tools/authority to fulfill its commercialization strategy. ARMS uses financial incentives, such as facility strategic reuse plans; marketing plans; building modification; equipment relocation, alteration, or consolidation; environmental baseline studies; and loan guarantees. ARMS objectives include reducing facility operating/ownership costs, decreasing product cost, lowering facility maintenance, providing opportunities for small businesses, retaining critical skills, and sustaining economic development.

Justification:

The Army's ammunition industrial manufacturing base is unique. It involves hazardous/explosive material processing and handling, represents a large investment, and requires critical skills. In 1990 efforts to meet the peacetime and replenishment concept to attract Government (defense and non-defense) and commercial subcontractors to GOCO ammunition facilities met with little success. The ARMS program became the catalyst to commercialize active and reserve ammunition facilities meeting these challenges. ARMS represents a tool that allows the Army to manage the ammunition infrastructure as a commercial business - improves process/product efficiencies by reducing overhead and enhances competition for ammunition products and ammunition facility management. This management concept has allowed ammunition producers to apply overhead costs across multiple contracts and become competitive in both government and commercial production within the same facility.

Exhibit P-5, Weapon AMMO Cost Analysis		Appropriation/Budget Activity/Serial No. Procurement of Ammunition, Army / 2 / Ammunition production base support			P-1 Line Item Nomenclature: ARMS INITIATIVE (EP2500)			Weapon System Type:			Date: February 2002		
AMMO Cost Elements	ID CD	FY 00			FY 01			FY 02			FY 03		
		TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
		\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000
Financial Incentives					17632			12494			2587		
Environmental Baselines													
Loan Guarantees					871			870			870		
Administrative Support					1607			1200			1200		
TOTAL					20110			14564			4657		
* * * * *													
Active and reserve Army Ammunition Plants are currently participating in the Armament, Retooling, and Manufacturing Support (ARMS) initiative and eligible to receive the incentives. As the Army continues to adjust its ammunition industrial base configuration under the Production Base Assessment, facility eligibility may change. This requires transition and other business strategies to be developed for the ARMS Program.													
Total					20110			14564			4657		