

# DEPARTMENT OF THE ARMY

## Procurement Programs



Committee Staff Procurement Backup Book  
FY 2002 Amended Budget Submission

### **PROCUREMENT OF AMMUNITION, ARMY**

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APPROPRIATION

June 2001

## **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; \$1,193,365,000 in fiscal year FY2002 to remain available for obligation until September 30, 2004.

**COMPARISON OF FY 2001 PROGRAM REQUIREMENTS  
AS REFLECTED IN THE FY 2001 BUDGET  
WITH THE FY 2001 PROGRAM REQUIREMENTS AS  
SHOWN IN THE FY 2002 AMENDED BUDGET  
SUMMARY OF REQUIREMENTS (In Millions of Dollars)**

<b>Appropriation</b>	<b>FY 2001 Requirements Per FY 2001 Budget</b>	<b>FY 2001 Requirements Per FY 2002/FY 2003 Amended Budget</b>	<b>Increase or (Decrease)</b>
<b>Procurement of Ammunition, Army</b>			
<b>Activity 1 - Ammunition</b>	<b>979</b>	<b>1,040</b>	<b>61</b>
<b>Activity 2 - Ammunition Production Support</b>	<b>153</b>	<b>169</b>	<b>16</b>
<b>Reimbursable Program</b>	<b><u>400</u></b>	<b><u>400</u></b>	<b><u>0</u></b>
	<b>1,532</b>	<b>1,609</b>	<b>77</b>

**EXPLANATION BY ACTIVITY**

Activity 1 - Ammunition - The net increase (\$+61.0) resulted from congressional adjustments to Ctg, .50 Cal, All Types (\$+6.0M); Ctg, .50 Cal, All Types (\$+1.0M); Ctg, 25mm, All Types (\$+8.6M); Ctg, 30mm, All Types (\$+5.0M); Ctg, 40mm, All Types (\$+2.0M); Nonlethal Weapons Capabilit Set (\$+2.0M); Ctg, 60mm Mortars, All Types (\$+5.0M); Ctg, Mortar, 120mm HE M934 (\$3.0M); Ctg, Mortar, 120mm Illum XM930 (\$+5.0M); Ctg, Artillery, 105mm DPICM XM915 (\$+7.0M); Ctg, Artillery 105mm M927 (\$+3.0M); Proj, Artillery, 155mm HE M107 (\$+5.0M); Modular Artillery Charge System (\$+12.5M); Mine AT M87 (VOLCANO) (\$+15.0M); Wide Area Munition (\$+12.0M) Bunker Defeating Munition (BDM) (\$+6.0M); Rocket Hydra 70, All Types (\$+4.0M); Demolition Munitions, All Types (\$+1.0M); and Grenades, All Types (\$+3.0M). These increases were offset by decreases of \$14.9M for the Projectile, Artillery, 155mm SADARM M898 and \$20.0M for the Remote Area Denial Artillery Munition (RADAM).

Reductions were made for economic assumptions (\$-7.3M) and the government-wide 1.5% reduction (\$-2.3M).

Activity 2- Ammunition Production Support- the net increase (\$3.0M) resulted from congressional adjustments to Provision of Industrial Facilities (\$+7.3M), and Armament Retooling and Manufacturing Support (ARMS) Initiative (\$+15.0).

Reductions were made for economic assumptions (\$-1.2M) and the government-wide 1.5% reduction (\$-0.4M).

**COMPARISON OF FY 2001 PROGRAM REQUIREMENTS  
AS REFLECTED IN THE FY 2002/FY 2003 BUDGET  
WITH THE FY2002 PROGRAM REQUIREMENTS AS  
SHOWN IN THE FY 2002 AMENDED BUDGET  
SUMMARY OF REQUIREMENTS (In Millions of Dollars)**

Appropriation Procurement of Ammunition, Army	FY 2001 Requirements Per FY 2002 Amended Budget	FY 2002 Requirements Per FY 2002 Amended Budget	Increase or (Decrease)
Activity 1 - Ammunition	1,040	1,034	(6)
Activity 2 - Ammunition Production Support	169	160	(9)
Reimbursable Program	400	<u>460</u>	<u>60</u>
	1,609	1,654	(15)

**EXPLANATION BY ACTIVITY**

Activity 1 = Decreases in Activity 1 reflect a slight decrease in requirements for small arms.

Activity 2 =Decreases in Activity 2 reflect a decreases in funding for Maintenance of Inactive Facilities and ARMS Initiative offset by increases to Provision of Industrial Facilities and Layaway of Industrial Facilities.

Reimbursable Program = FY01 reimbursable program increases reflecting a higher projection of orders.

DEPARTMENT OF THE ARMY  
FY 02 PROCUREMENT PROGRAM

EXHIBIT P-1  
June 2000

Appropriation: **\*\*AMMUNITION\*\***

Activity: **1. \*\*AMMUNI**

LINE NO.	ITEM NOMENCLATURE	ID	(DOLS) FY 00 UNIT COST	(THOUSANDS OF DOLLARS)						
				FY00		FY01		FY02		
				QTY	COST	QTY	COST	QTY	COST	
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)		
	<b>**SMALL/MEDIUM CALIBER AMMUNITION**</b>									
1	CTG, 5.56MM, ALL TYPES (E00700)	A			84,721		96,861			
2	CTG 5.56MM ARMOR PIERCING M995 (F47600)	A		1,262	1,826	795	1,325	2,605		
3	CTG, 7.62MM, ALL TYPES (E02000)	A			3,933		8,907			
4	CTG 7.62MM ARMOR PIERCING XM993 (F47500)	A		600	1,308			1,168		
5	CTG, 9MM, ALL TYPES (EA3000)	A			1,155		2,465			
6	CTG, .50 CAL, ALL TYPES (E08000)	A			19,725		16,493			
7	CTG CAL .50 API MK211 MOD 0 (F47400)	A				373	2,959	404		
8	CTG, 20MM, ALL TYPES (E08900)	A			1		1,986			
9	CTG, 25MM, ALL TYPES (E08200)	A			47,730		65,770			
10	CTG, 30MM, ALL TYPES (ER8120)	A			6,519		14,383			
11	CTG, 40MM, ALL TYPES (ER8001)	A			44,355		62,212			
12	NONLETHAL WEAPONS CAPABILITY SET (E91800)	B		5	7,712	5	10,302	5		
	<b>SUB-ACTIVITY TOTAL</b>				<b>218,985</b>		<b>283,663</b>			

Appropriation: **\*\*AMMUNITION\*\***

Activity: **1. \*\*AMMUNI**

DEPARTMENT OF THE ARMY  
FY 02 PROCUREMENT PROGRAM

EXHIBIT P-1  
June 2000

LINE NO.	ITEM NOMENCLATURE	ID	(DOLS) FY 00 UNIT COST	(THOUSANDS OF DOLLARS)						
				FY 00		FY 01		FY C		
				QTY	COST	QTY	COST	QTY		
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)		
	<b>**MORTAR AMMUNITION**</b>									
13	60MM MORTAR, ALL TYPES (E89600)				23,611		33,363			
14	81MM MORTAR, ALL TYPES (E76000)				5,202		921			
15	CTG MORTAR 120MM HE M934 W/MO FUZE (E25501)	A		65	48,847	65	47,591	50		
16	CTG MORTAR 120MM ILLUM XM930 W/MTSQ FZ (E25503)	B		4	11,385		4,954	2		
17	CTG 120MM WP SMOKE M929A1 (E91300)			64	59,034	15	24,739	11		
18	CTG 120MM MORTAR IR ILLUM M983 (E91500)							2		
	<b>SUB-ACTIVITY TOTAL</b>				<b>148,079</b>		<b>111,568</b>			
	<b>**TANK AMMUNITION**</b>									
19	CTG, TANK, 105MM HEP-T W/FUZE M393A2 (D24300)	A						1		
20	CTG 120MM APFSDS-T M829A2/M829E3 (E78001)	A		7	31,387			5		
21	CTG 120MM HEAT-MP-T M830A1 (E78007)	A		2	17,241					
22	CTG TANK 120MM TP-T M831/M831A1 (E73300)	A		57	35,208	87	48,033	86		
23	CTG TANK 120MM TPCSDS-T M865 (E73400)	A		140	80,613	199	100,580	198		
	<b>SUB-ACTIVITY TOTAL</b>				<b>164,449</b>		<b>148,613</b>			

Appropriation: **\*\*AMMUNITION\*\***

Activity: 1. **\*\*AMMUNI**

DEPARTMENT OF THE ARMY  
FY 02 PROCUREMENT PROGRAM

EXHIBIT P-1  
June 2000

LINE NO.	ITEM NOMENCLATURE	ID	(DOLS) FY 00 UNIT COST	(THOUSANDS OF DOLLARS)					
				FY 00		FY 01		FY C	
				QTY	COST	QTY	COST	QTY	
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	
	<b>**ARTILLERY AMMUNITION**</b>								
24	CTG ARTY 75MM BLANK M337A1 (E15200)	A		62	2,481	40	1,790	38	
25	CTG ARTY105MM BLANK M395 (E21200)	A		121	6,540				
26	CTG ARTY 105MM DPICM M915 (E53500)	B		3	12,404		6,936		
27	CTG, ARTY 105MM M927 (E93300)	A			293	4	2,972		
28	CTG ARTY 105MM ILLUM M314 SERIES (E21700)	A		11	7,723		128	6	
29	PROJ ARTY 155MM SMOKE WP M825 (E67800)	A			10,277		14,547		
30	PROJ ARTY 155MM HE M795 (E66800)	A		20	9,783				
31	PROJ ARTY 155MM SADARM M898 (E66300)	B			14,938				
32	REMOTE AREA DENIAL ARTILLERY MUNITION (RADAM) (E67505)				8,187	59	27,419	104	
33	PROJ ARTY 155MM HE M107 (E27601)	A		114	24,108	198	39,810	224	
34	MODULAR ARTILLERY CHARGE SYSTEM (MACS) (ER8021)	B		455	42,601	490	39,565	836	
	<b>SUB-ACTIVITY TOTAL</b>				<b>139,335</b>		<b>133,167</b>		
	<b>**ARTILLERY FUZES**</b>								
35	ARTILLERY FUZES, ALL TYPES (ER8000) (E61200)				41,742		66,391		
	<b>SUB-ACTIVITY TOTAL</b>				<b>41,742</b>		<b>66,391</b>		

Appropriation: **\*\*AMMUNITION\*\***

Activity: 1. **\*\*AMMUNI**

DEPARTMENT OF THE ARMY  
FY 02 PROCUREMENT PROGRAM

EXHIBIT P-1  
June 2000

LINE NO.	ITEM NOMENCLATURE	ID	(DOLS) FY 00 UNIT COST	(THOUSANDS OF DOLLARS)					
				FY 00		FY 01		FY C	
				QTY	COST	QTY	COST	QTY	
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	
	<b>**MINES**</b>								
36	MINE, TRAINING, ALL TYPES (EA0800)				7,787		3,856		
37	MINE AT M87 (VOLCANO) (E72195)	A		4	18,000	3	14,862		
38	WIDE AREA MUNITIONS (E78100)	B		70	15,191	57	19,108		
	<b>SUB-ACTIVITY TOTAL</b>				<b>40,978</b>		<b>37,826</b>		
	<b>**ROCKETS**</b>								
39	BUNKER DEFEATING MUNITION (BDM) (E88400)	B			9,808		5,945		
40	ROCKET, HYDRA 70, ALL TYPES (E37300)	A			143,624		155,330		
	<b>SUB-ACTIVITY TOTAL</b>				<b>153,432</b>		<b>161,275</b>		
	<b>**OTHER AMMUNITION**</b>								
41	DEMOLITION MUNITIONS, ALL TYPES (E55400)	A			15,980		17,443		
42	GRENADES, ALL TYPES (E34000)	B			13,895		23,046		
43	SIGNALS, ALL TYPES (E46900)	A			4,355		12,947		
44	SIMULATORS, ALL TYPES (315200)	A			2,274		3,026		
	<b>SUB-ACTIVITY TOTAL</b>				<b>36,504</b>		<b>56,462</b>		
	<b>**MISCELLANEOUS**</b>								
45	AMMO COMPONENTS, ALL TYPES (EB0016)	A			3,364		6,689		
46	CAD/PAD ALL TYPES (EA0003)	A			1,889		4,258		

Appropriation: **\*\*AMMUNITION\*\***

Activity: 1. **\*\*AMMUNI**

DEPARTMENT OF THE ARMY  
FY 02 PROCUREMENT PROGRAM

EXHIBIT P-1  
June 2000

LINE NO.	ITEM NOMENCLATURE	ID	(DOLS) FY 00 UNIT COST	(THOUSANDS OF DOLLARS)					
				FY 00		FY 01		FY C	
				QTY	COST	QTY	COST	QTY	
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	
47	ITEMS LESS THAN \$5 MILLION (EA0055)	A			13,251		10,053		
48	AMMUNITION PECULIAR EQUIPMENT (EA0575)	A			9,596		9,389		
49	FIRST DESTINATION TRANSPORTATION (AMMO) (EA0550)	A			6,829		5,071		
50	CLOSEOUT LIABILITIES (EA85000)						5,712		
	<b>SUB-ACTIVITY TOTAL</b>				<b>34,929</b>		<b>41,172</b>		
	<b>ACTIVITY TOTAL</b>				<b>978,433</b>		<b>1,040,137</b>		

DEPARTMENT OF THE ARMY  
 FY 02 PROCUREMENT PROGRAM

EXHIBIT P-1  
 June 2000

Appropriation: **\*\*AMMUNITION\*\***

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

LINE NO.	ITEM NOMENCLATURE	ID	(DOLS) FY 00 UNIT COST	(THOUSANDS OF DOLLARS)						
				FY 00		FY 01		FY C		
				QTY	COST	QTY	COST	QTY		
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)		
	<b>**PRODUCTION BASE SUPPORT**</b>									
51	PROVISION OF INDUSTRIAL FACILITIES (EP1000)				48,492		50,282			
52	LAYAWAY OF INDUSTRIAL FACILITIES (EP2000)				10,631		3,185			
53	MAINTENANCE OF INACTIVE FACILITIES (EP1500)				13,587		12,155			
54	CONVENTIONAL AMMO DEMILITARIZATION (EP1800)				83,503		84,020			
55	ARMS INITIATIVE (EP2500)				26,779		19,538			
	<b>SUB-ACTIVITY TOTAL</b>				<b>182,992</b>		<b>169,180</b>			
	<b>ACTIVITY TOTAL</b>				<b>182,992</b>		<b>169,180</b>			
	<b>APPROPRIATION TOTAL</b>				<b>1,161,425</b>		<b>1,209,317</b>			

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2	F47600	CTG 5.56MM ARMOR PIERCING M995	45
3	E02000	CTG, 7.62MM, ALL TYPES	46
4	F47500	CTG 7.62MM ARMOR PIERCING XM993	53
5	EA3000	CTG, 9MM, ALL TYPES	54
6	E08000	CTG, .50 CAL, ALL TYPES	56
7	F47400	CTG CAL .50 API MK211 MOD 0	73
8	E08900	CTG, 20MM, ALL TYPES	74
9	E08200	CTG, 25MM, ALL TYPES	76
10	ER8120	CTG, 30MM, ALL TYPES	94
11	ER8001	CTG, 40MM, ALL TYPES	102
12	E91800	NONLETHAL WEAPONS CAPABILITY SET	116
13	E89600	60MM MORTAR, ALL TYPES	122
14	E76000	81MM MORTAR, ALL TYPES	160
15	E25501	CTG MORTAR 120MM HE M934 W/MO FUZE	162
16	E25503	CTG MORTAR 120MM ILLUM XM930 W/MTSQ FZ	170
17	E91300	CTG 120MM WP SMOKE M929A1	178
18	E91500	CTG 120MM IR ILLUM XM983	186
19	E24300	CTG, 105MM, HEP-T, W/FUZE F/TANK M393	193
20	E78001	CTG 120MM APFSDS-T M829A2/M829E3	198
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23	E73400	CTG TANK 120MM TPCSDS-T M865	214
24	E15200	CTG ARTY 75MM BLANK M337A1	219
25	E21200	CTG ARTY 105MM BLANK M395	220
26	E53500	CTG ARTY 105MM DPICM XM915	224
27	E93300	CTG ARTY 105MM M927	228
28	E21700	CTG ARTY 105MM ILLUM M314 SERIES	229
29	E67800	PROJ ARTY 155MM SMOKE WP M825	235
30	E66800	PROJ ARTY 155MM HE M795	236
31	E66300	PROJ ARTY 155MM SADARM M898	241
32	E67505	REMOTE AREA DENIAL ARTILLERY MUNITION (RADAM)	244
33	E27601	PROJ ARTY 155MM HE M107	250
34	ER8021	MODULAR ARTILLERY CHARGE SYSTEM (MACS)	257
35	ER8000	ARTILLERY FUZES, ALL TYPES	264
36	EA0800	MINE, TRAINING, ALL TYPES	281
37	E72195	MINE AT M87 (VOLCANO)	289
38	E78100	WIDE AREA MUNITIONS	294
39	E88400	BUNKER DEFEATING MUNITION (BDM)	300
40	E37300	ROCKET, HYDRA 70, ALL TYPES	307
41	E55400	DEMOLITION MUNITIONS, ALL TYPES	328
42	E34000	GRENADES, ALL TYPES	345

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45	EB0016	AMMO COMPONENTS, ALL TYPES	371
46	EA0003	CAD/PAD ALL TYPES	374
47	EA0055	ITEMS LESS THAN \$5 MILLION	375
48	EA0575	AMMUNITION PECULIAR EQUIPMENT	377
49	EA0550	FIRST DESTINATION TRANSPORTATION (AMMO)	378
50	EA8500	CLOSEOUT LIABILITIES	379
51	EP1000	PROVISION OF INDUSTRIAL FACILITIES	381
52	EP2000	LAYAWAY OF INDUSTRIAL FACILITIES	394
53	EP1500	MAINTENANCE OF INACTIVE FACILITIES	397
54	EP1800	CONVENTIONAL AMMO DEMILITARIZATION	399
55	EP2500	ARMS INITIATIVE	401

# Exhibit P-40, Budget Item Justification Sheet

Date:

June 2001

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	1771.9	95.1	84.7	96.9	67.2							
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	1771.9	95.1	84.7	96.9	67.2							
Initial Spares												
Total Proc Cost	1771.9	95.1	84.7	96.9	67.2							
Flyaway U/C												
Wpn Sys Proc U/C												

**Description:**

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

This budget line includes 5.56MM ALL TYPES.

<b>Exhibit P-5, Weapon AMMO Cost Analysis</b>		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: June 2001		
<b>AMMO Cost Elements</b>	ID CD	<b>FY 00</b>			<b>FY 01</b>			<b>FY 02</b>			<b>FY 03</b>		
		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 5.56MM BALL M193		2100	10001	0.21	17								
CTG 5.56MM BALL M193 (A066)		7917	49530	0.16	51								
CTG 5.56MM BLANK M200		2080	16001	0.13	5900	55228	0.11	9242	91222	0.10			
CTG 5.56MM BLANK M200 LINKED F/SAW		8348	31658	0.26	14972	60118	0.25	1237	2998	0.41			
CTG 5.56MM BALL M855 F/M16A2		23975	118129	0.20	31312	148243	0.21	24595	107636	0.23			
CTG 5.56MM BALL M855 LINKED F/SAW		5677	19379	0.29	2020	4175	0.48	749	1642	0.46			
CTG 5.56MM 4 BALL/1 TR M856 F/SAW		14624	48746	0.30	36278	68972	0.53	24885	57794	0.43			
CTG 5.56MM RIFLE LNCHER, NON-LTHL XM95					6311	79	79.89	6533	82	79.67			
CTG 5.56MM BALL GREEN CLIP COMM PK		15000	57629	0.26									
CTG 5.56MM BALL GREEN LKD STD PAK		5000	13888	0.36									
<b>Total</b>		<b>84721</b>			<b>96861</b>			<b>67241</b>					

# Exhibit P-40, Budget Item Justification Sheet

Date:

June 2001

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:

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	64946	16001	55228	91222							
Gross Cost	291.7	10.2	2.1	5.9	9.2							
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	291.7	10.2	2.1	5.9	9.2							
Initial Spares												
Total Proc Cost	291.7	10.2	2.1	5.9	9.2							
Flyaway U/C												
Wpn Sys Proc U/C												

**Description:**

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

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 2002 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

<b>Exhibit P-5, Weapon AMMO Cost Analysis</b>		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: June 2001		
<b>AMMO Cost Elements</b>	ID CD	<b>FY 00</b>			<b>FY 01</b>			<b>FY 02</b>			<b>FY 03</b>		
		TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
		\$000	x1000	\$	\$000	x1000	\$	\$000	x1000	\$	\$000	x1000	\$
<b>AMMUNITION HARDWARE</b>													
Load, Assemble, and Pack		1765	16001	0.11	5329	55228	0.10	8557	91222	0.09			
Box Metal M2A1		91	14	6.38	318	49	6.47	534	81	6.58			
<b>SubTotal AMMO Hardware</b>		<b>1856</b>			<b>5647</b>			<b>9091</b>					
<b>Production Support Costs</b>													
Production Engineering		130			155			66					
Quality Assurance		4			15			9					
Acceptance Testing		62											
Interim Transportation		1			1			1					
Industrial Stock Support		27			82			75					
<b>SubTotal Prod. Support</b>		<b>224</b>			<b>253</b>			<b>151</b>					
<b>Total</b>		<b>2080</b>		<b>0.13</b>	<b>5900</b>		<b>0.11</b>	<b>9242</b>		<b>0.10</b>			

# Exhibit P-5a, Budget Procurement History and Planning

Date:  
June 2001

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
<b>Load, Assemble, and Pack</b>										
FY 2000	Alliant Tech (LCAAP) Independence, MO	SS/FP	OSC, Rock Island, IL	Mar 2000	Oct 2000	16001	0.11			
FY 2001	Alliant Tech (LCAAP) Independence, MO	SS/FP	OSC, Rock Island, IL	Nov 2000	Oct 2001	55228	0.10	Y		
FY 2002	Alliant Tech (LCAAP) Independence, MO	SS/FP	OSC, Rock Island, IL	Nov 2001	Oct 2002	91222	0.09	Y		
<b>Box Metal M2A1</b>										
FY 2000	Brockway Standard Homerville, GA	C/FP	OSC, Rock Island, IL	Mar 2000	Jul 2000	14	6.38			
FY 2001	TBS	C/FP	OSC, Rock Island, IL	May 2001	Jul 2001	49	6.47	Y		
FY 2002	TBS	C/FP	OSC, Rock Island, IL	Jan 2002	Jul 2002	81	6.58	Y		

REMARKS: TBS - To Be Selected





# Exhibit P-40, Budget Item Justification Sheet

Date:

June 2001

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:

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	35419	31658	60118	2998							
Gross Cost	68.6	12.4	8.3	15.0	1.2							
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	68.6	12.4	8.3	15.0	1.2							
Initial Spares												
Total Proc Cost	68.6	12.4	8.3	15.0	1.2							
Flyaway U/C												
Wpn Sys Proc U/C												

**Description:**

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

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). Four plastic containers are packed in a PA108 container. The M249 SAW is a lightweight, belt-fed, one-man operable machine gun. This item is Code A, approved for service use.

**Justification:**

This is a training unique item; not used in combat. FY 2002 procurements 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

<b>Exhibit P-5, Weapon AMMO Cost Analysis</b>		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: June 2001		
<b>AMMO Cost Elements</b>	ID CD	<b>FY 00</b>			<b>FY 01</b>			<b>FY 02</b>			<b>FY 03</b>		
		TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
		\$000	x1000	\$	\$000	x1000	\$	\$000	x1000	\$	\$000	x1000	\$
<b>AMMUNITION HARDWARE</b>													
Complete Round		7775	31658	0.25	14615	60118	0.24	1118	2998	0.37			
<b>SubTotal AMMO Hardware</b>		<b>7775</b>			<b>14615</b>			<b>1118</b>					
<b>Production Support Costs</b>													
Production Engineering		128			109			106					
Quality Assurance		4			36			4					
Acceptance Testing		328											
Industrial Stock Support		113			212			9					
<b>SubTotal Prod. Support</b>		<b>573</b>			<b>357</b>			<b>119</b>					
<b>Total</b>		<b>8348</b>		<b>0.26</b>	<b>14972</b>		<b>0.25</b>	<b>1237</b>		<b>0.41</b>			

## Exhibit P-5a, Budget Procurement History and Planning

Date:  
June 2001

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
<b>Complete Round</b>										
FY 2000	Alliant Tech (LCAAP) Independence, MO	SS/FP	OSC, Rock Island, IL	Mar 2000	Oct 2000	31658	0.25			
FY 2001	Alliant Tech (LCAAP) Independence, MO	SS/FP	OSC, Rock Island, IL	Nov 2000	Oct 2001	60118	0.24	Y		
FY 2002	Alliant Tech (LCAAP) Independence, MO	SS/FP	OSC, Rock Island, IL	Nov 2001	Oct 2002	2998	0.37	Y		

REMARKS:





# Exhibit P-40, Budget Item Justification Sheet

Date:

June 2001

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:

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	148243	107636							
Gross Cost	297.2	31.0	24.0	31.3	24.6							
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	297.2	31.0	24.0	31.3	24.6							
Initial Spares												
Total Proc Cost	297.2	31.0	24.0	31.3	24.6							
Flyaway U/C												
Wpn Sys Proc U/C												

**Description:**

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

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 2002 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

<b>Exhibit P-5, Weapon AMMO Cost Analysis</b>		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: June 2001		
<b>AMMO Cost Elements</b>	ID CD	<b>FY 00</b>			<b>FY 01</b>			<b>FY 02</b>			<b>FY 03</b>		
		TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
		\$000	x1000	\$	\$000	x1000	\$	\$000	x1000	\$	\$000	x1000	\$
<b>AMMUNITION HARDWARE</b>													
Load, Assemble, and Pack		22480	118129	0.19	29515	148243	0.20	23422	107636	0.22			
Box Metal M2A1		430	69	6.28	1171	181	6.47	432	66	6.58			
<b>SubTotal AMMO Hardware</b>		<b>22910</b>			<b>30686</b>			<b>23854</b>					
<b>Production Support Costs</b>													
Production Engineering		303			92			326					
Quality Assurance		3			77			14					
Acceptance Testing		412											
Interim Transportation		15			12			1					
Industrial Stock Support		332			445			198					
<b>Sub Total Prod. Support</b>		<b>1065</b>			<b>626</b>			<b>539</b>					
<b>COST - Nonrecurring</b>													
Value Engineering Change Proposal								202					
<b>Total</b>		<b>23975</b>		<b>0.20</b>	<b>31312</b>		<b>0.21</b>	<b>24595</b>		<b>0.23</b>			

## Exhibit P-5a, Budget Procurement History and Planning

Date:  
June 2001

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
<b>Load, Assemble, and Pack</b>										
FY 2000	Alliant Tech (LCAAP) Independence, MO	SS/FP	OSC, Rock Island, IL	Mar 2000	Sep 2000	118129	0.19			
FY 2001	Alliant Tech (LCAAP) Independence, MO	SS/FP	OSC, Rock Island, IL	Mar 2001	Oct 2001	148243	0.20	Y		
FY 2002	Alliant Tech (LCAAP) Independence, MO	SS/FP	OSC, Rock Island, IL	Nov 2002	Oct 2002	107636	0.22	Y		
<b>Box Metal M2A1</b>										
FY 2000	Brockway Standard Homerville, GA	C/FP	OSC, Rock Island, IL	Mar 2000	Jul 2000	69	6.28			
FY 2001	TBS	C/FP	OSC, Rock Island, IL	May 2001	Jul 2001	181	6.47	Y		
FY 2002	TBS	C/FP	OSC, Rock Island, IL	Jan 2002	Jul 2002	66	6.58	Y		

REMARKS: TBS - To Be Selected





# Exhibit P-40, Budget Item Justification Sheet

Date:

June 2001

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

P-1 Item Nomenclature  
CTG 5.56MM BALL M855 LINKED F/SAW (E04603)

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	55746	17761	19379	4175	1642							
Gross Cost	20.5	8.0	5.7	2.0	0.7							
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	20.5	8.0	5.7	2.0	0.7							
Initial Spares												
Total Proc Cost	20.5	8.0	5.7	2.0	0.7							
Flyaway U/C												
Wpn Sys Proc U/C												

**Description:**

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

The Squad Automatic Weapon (SAW) ball round, M855, has a steel, conical insert in the ogive of the bullet. This round will be linked in 200 round belts using the M27 link. This item is code A, approved for service use.

**Justification:**

This is a training unique item; not used in combat. This round is used primarily for training in areas where a fire hazard exists if the tracer round were to be used. FY 2002 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

<b>Exhibit P-5, Weapon AMMO Cost Analysis</b>		Appropriation/Budget Activity/Serial No. Procurement of Ammunition, Army / 1 / AMMUNITION			P-1 Line Item Nomenclature: CTG 5.56MM BALL M855 LINKED F/SAW (E04603)			Weapon System Type:			Date: June 2001		
<b>AMMO Cost Elements</b>	ID CD	<b>FY 00</b>			<b>FY 01</b>			<b>FY 02</b>			<b>FY 03</b>		
		TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
		\$000	x1000	\$	\$000	x1000	\$	\$000	x1000	\$	\$000	x1000	\$
<b>AMMUNITION HARDWARE</b>													
Complete Round		5300	19379	0.27	1906	4175	0.46	690	1642	0.42			
<b>SubTotal AMMO Hardware</b>		<b>5300</b>			<b>1906</b>			<b>690</b>					
<b>Production Support Costs</b>													
Production Engineering		142			82			49					
Quality Assurance		4			4			4					
Acceptance Testing		154											
Industrial Stock Support		77			28			6					
<b>SubTotal Prod. Support</b>		<b>377</b>			<b>114</b>			<b>59</b>					
<b>Total</b>		<b>5677</b>		<b>0.29</b>	<b>2020</b>		<b>0.48</b>	<b>749</b>		<b>0.46</b>			

## Exhibit P-5a, Budget Procurement History and Planning

Date:  
June 2001

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

Weapon System Type:

P-1 Line Item Nomenclature:  
CTG 5.56MM BALL M855 LINKED F/SAW (E04603)

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
<b>Complete Round</b>										
FY 2000	Alliant Tech (LCAAP) Independence, MO	SS/FP	OSC, Rock Island, IL	Mar 2000	Sep 2000	19379	0.27			
FY 2001	Alliant Tech (LCAAP) Independence, MO	SS/FP	OSC, Rock Island, IL	Feb 2001	Oct 2001	4175	0.46	Y		
FY 2002	Alliant Tech (LCAAP) Independence, MO	SS/FP	OSC, Rock Island, IL	Nov 2001	Oct 2002	1642	0.42	Y		

REMARKS:





# Exhibit P-40, Budget Item Justification Sheet

Date:

June 2001

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:

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	28782	48746	68972	57794							
Gross Cost	126.8	16.0	14.6	36.3	24.9							
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	126.8	16.0	14.6	36.3	24.9							
Initial Spares												
Total Proc Cost	126.8	16.0	14.6	36.3	24.9							
Flyaway U/C												
Wpn Sys Proc U/C												

**Description:**

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

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 2002 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

<b>Exhibit P-5, Weapon AMMO Cost Analysis</b>		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: June 2001		
<b>AMMO Cost Elements</b>	ID CD	<b>FY 00</b>			<b>FY 01</b>			<b>FY 02</b>			<b>FY 03</b>		
		TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
		\$000	x1000	\$	\$000	x1000	\$	\$000	x1000	\$	\$000	x1000	\$
<b>AMMUNITION HARDWARE</b>													
Complete Round		14370	48746	0.29	35707	68972	0.52	24511	57794	0.42			
<b>SubTotal AMMO Hardware</b>		<b>14370</b>			<b>35707</b>			<b>24511</b>					
<b>Production Support Costs</b>													
Production Engineering		25			44			167					
Quality Assurance		5			9			4					
Acceptance Testing		16											
Industrial Stock Support		208			518			203					
<b>SubTotal Prod. Support</b>		<b>254</b>			<b>571</b>			<b>374</b>					
<b>Total</b>		<b>14624</b>		<b>0.30</b>	<b>36278</b>		<b>0.53</b>	<b>24885</b>		<b>0.43</b>			

## Exhibit P-5a, Budget Procurement History and Planning

Date:  
June 2001

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
<b>Complete Round</b>										
FY 2000	Alliant Tech (LCAAP) Independence, MO	SS/FP	OSC, Rock Island, IL	Mar 2000	Dec 2000	48746	0.29			
FY 2001	Alliant Tech (LCAAP) Independence, MO	SS/FP	OSC, Rock Island, IL	Mar 2001	Oct 2001	68972	0.52	Y		
FY 2002	Alliant Tech (LCAAP) Independence, MO	SS/FP	OSC, Rock Island, IL	Nov 2001	Oct 2002	57794	0.42	Y		

REMARKS:





# Exhibit P-40, Budget Item Justification Sheet

Date:

June 2001

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:

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		79	82							
Gross Cost		2.3		6.3	6.5							
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)		2.3		6.3	6.5							
Initial Spares												
Total Proc Cost		2.3		6.3	6.5							
Flyaway U/C												
Wpn Sys Proc U/C												

**Description:**

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

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. This system supports the Legacy-to-Objective transition path of the Transformation Campaign Plan (TCP).

**Justification:**

The FY 2002 procurement will provide friendly forces with the capability to enforce a standoff distance from a crowd of belligerents at a range of 30-80 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

<b>Exhibit P-5, Weapon AMMO Cost Analysis</b>		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: June 2001		
<b>AMMO Cost Elements</b>	ID CD	<b>FY 00</b>			<b>FY 01</b>			<b>FY 02</b>			<b>FY 03</b>		
		TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
		\$000	x1000	\$	\$000	x1000	\$	\$000	x1000	\$	\$000	x1000	\$
<b>AMMUNITION HARDWARE</b>													
Complete Round	B				5808	79	74.00	6093	82	74.00			
<b>SubTotal AMMO Hardware</b>					<b>5808</b>			<b>6093</b>					
<b>Production Support Costs</b>													
Production Engineering					173			210					
Quality Assurance					115			115					
Acceptance Testing					115			115					
<b>SubTotal Prod. Support</b>					<b>403</b>			<b>440</b>					
<b>COST - Nonrecurring</b>													
Matériel Release					100								
<b>SubTotal COST - Nonrecurring</b>					<b>100</b>								
<b>Total</b>					<b>79.89</b>			<b>6311</b>			<b>79.67</b>		<b>6533</b>

## Exhibit P-5a, Budget Procurement History and Planning

Date:  
June 2001

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
<b>Complete Round</b>										
FY 1999	Alliant Techsystems MN	SS/OPTION	TACOM-ARDEC	Feb 00	Sep 00	22	76.75			
FY 2001	Alliant Techsystems MN	SS/OPTION	TACOM-ARDEC	Jul 02	Apr 03	79	74.00	Yes		
FY 2002	Alliant Techsystems MN	SS/OPTION	TACOM-ARDEC	Jul 02	Nov 03	82	74.00	Yes		

REMARKS: FY 1999 Army procurement was an option to the Air Force September 1998 Urgent buy.





# Exhibit P-40, Budget Item Justification Sheet

Date:

June 2001

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

P-1 Item Nomenclature  
CTG 5.56MM, M855 W/M27 LINK: PA108 CONT, LEAD FRE (E95200)

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			13888									
Gross Cost			5.0									
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)			5.0									
Initial Spares												
Total Proc Cost			5.0									
Flyaway U/C												
Wpn Sys Proc U/C												

**Description:**

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

The Squad Automatic Weapon (SAW) ball round, M855, has a steel conical insert in the ogive of the bullet. This item is lead free or "Green". This round will be linked in 200 round belts using the M27 link. This item is code A, approved for service use.

**Justification:**

This is a training unique item; not used in combat. This round is used primarily for training in areas where a fire hazard exists if the tracer round were to be used. 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

<b>Exhibit P-5, Weapon AMMO Cost Analysis</b>		Appropriation/Budget Activity/Serial No. Procurement of Ammunition, Army / 1 / AMMUNITION			P-1 Line Item Nomenclature: CTG 5.56MM, M855 W/M27 LINK: PA108 CONT, LEAD FRE (E95200)			Weapon System Type:			Date: June 2001		
<b>AMMO Cost Elements</b>	ID CD	<b>FY 00</b>			<b>FY 01</b>			<b>FY 02</b>			<b>FY 03</b>		
		TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
		\$000	Each	\$	\$000	Each	\$	\$000	Each	\$	\$000	Each	\$
<b>AMMUNITION HARDWARE</b>													
Complete Round		5000	13888	0.36									
<b>SubTotal AMMO Hardware</b>		<b>5000</b>											
<b>Total</b>		<b>5000</b>		<b>0.36</b>									

# Exhibit P-5a, Budget Procurement History and Planning

Date:  
June 2001

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

Weapon System Type:

P-1 Line Item Nomenclature:  
CTG 5.56MM, M855 W/M27 LINK: PA108 CONT, LEAD FRE (E95200)

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
<b>Complete Round</b> FY 2000	Alliant Tech (LCAAP) Independence, MO	SS/FP	OSC, Rock Island, IL	Feb 2001	Oct 2001	13888	0.36			

REMARKS:



# Exhibit P-40, Budget Item Justification Sheet

Date:

June 2001

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

P-1 Item Nomenclature  
CTG 5.56MM, M855, 10 RD CLIP: COMMERCIAL PK, LEAD (E95700)

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			57629									
Gross Cost			15.0									
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)			15.0									
Initial Spares												
Total Proc Cost			15.0									
Flyaway U/C												
Wpn Sys Proc U/C												

**Description:**

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

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 2002 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

<b>Exhibit P-5, Weapon AMMO Cost Analysis</b>		Appropriation/Budget Activity/Serial No. Procurement of Ammunition, Army / 1 / AMMUNITION			P-1 Line Item Nomenclature: CTG 5.56MM, M855, 10 RD CLIP: COMMERCIAL PK, LEAD (E95700)			Weapon System Type:			Date: June 2001		
<b>AMMO Cost Elements</b>	ID CD	<b>FY 00</b>			<b>FY 01</b>			<b>FY 02</b>			<b>FY 03</b>		
		TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
		\$000	x1000	\$	\$000	x1000	\$	\$000	x1000	\$	\$000	x1000	\$
<b>AMMUNITION HARDWARE</b>													
Complete Round		14995	57629	0.26									
<b>SubTotal AMMO Hardware</b>		<b>14995</b>											
<b>Production Support Costs</b>													
Industrial Stock Support		5											
<b>SubTotal Prod. Support</b>		<b>5</b>											
<b>Total</b>		<b>15000</b>		<b>0.26</b>									

# Exhibit P-5a, Budget Procurement History and Planning

Date:  
June 2001

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: COMMERCIAL PK, LEAD (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
<b>Complete Round</b> FY 2000	Alliant Tech (LCAAP) Independence, MO	SS/FP	OSC, Rock Island, IL	Sep 2000	Oct 2001	57629	0.26			

REMARKS:



# Exhibit P-40, Budget Item Justification Sheet

Date:

June 2001

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

P-1 Item Nomenclature  
CTG, 5.56MM, BALL, M193 (A066) (E96001)

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			49530									
Gross Cost			7.9	0.1								
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)			7.9	0.1								
Initial Spares												
Total Proc Cost			7.9	0.1								
Flyaway U/C												
Wpn Sys Proc U/C												

**Description:**

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

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 not clipped and is used to support training. Procurement supports annual peacetime training and builds a depot level in accordance with the Army's procurement goals.

TYPE CLASSIFICATION DATE:

1975

ACQUISITION MANAGER: OSC, Rock Island, IL

<b>Exhibit P-5, Weapon AMMO Cost Analysis</b>		Appropriation/Budget Activity/Serial No. Procurement of Ammunition, Army / 1 / AMMUNITION			P-1 Line Item Nomenclature: CTG, 5.56MM, BALL, M193 (A066) (E96001)			Weapon System Type:			Date: June 2001		
<b>AMMO Cost Elements</b>	ID CD	<b>FY 00</b>			<b>FY 01</b>			<b>FY 02</b>			<b>FY 03</b>		
		TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
		\$000	x1000	\$	\$000	x1000	\$	\$000	x1000	\$	\$000	x1000	\$
<b>AMMUNITION HARDWARE</b>													
Load, Assemble, and Pack		6815	49530	0.14									
Box Metal M2A1		395	62	6.38									
<b>SubTotal AMMO Hardware</b>		<b>7210</b>											
<b>Production Support Costs</b>													
Production Engineering		160			51								
Quality Assurance		5											
Acceptance Testing		430											
Interim Transportation		7											
Industrial Stock Support		105											
<b>SubTotal Prod. Support</b>		<b>707</b>			<b>51</b>								
<b>Total</b>		<b>7917</b>		<b>0.16</b>	<b>51</b>								

## Exhibit P-5a, Budget Procurement History and Planning

Date:  
June 2001

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

Weapon System Type:

P-1 Line Item Nomenclature:  
CTG, 5.56MM, BALL, M193 (A066) (E96001)

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
<b>Load, Assemble, and Pack</b> FY 2000	Alliant (LCAAP) MO	SS/FP	OSC, Rock Island, IL	Mar 2000	Sep 2000	49530	0.14			
<b>Box Metal M2A1</b> FY 2000	Brockway Standard Homerville, GA	C/FP	OSC, Rock Island, IL	Mar 2000	Jul 2000	62	6.38			

REMARKS:



# Exhibit P-40, Budget Item Justification Sheet

Date:

June 2001

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	795	2605							
Gross Cost	5.6	1.9	1.8	1.3	3.6							
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	5.6	1.9	1.8	1.3	3.6							
Initial Spares												
Total Proc Cost	5.6	1.9	1.8	1.3	3.6							
Flyaway U/C												
Wpn Sys Proc U/C												

**Description:**

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

The M993 7.62mm Armor Piercing (AP) Round is currently produced by Bofors Carl Gustaf AB of Sweden. The projectile assembly consists of a tungsten core penetrator contained in an aluminum cup and jacketed by tombac (similar to standard gilding metal, 90% copper, 10% zinc) clad steel. The shaped tungsten core provides enhanced armor penetration, representing a key departure from the current 7.62mm ball service round. The Bofors CGAB produced cartridge utilizes a conventional brass cartridge case with a Berdan primer. The propellant is a single base type manufactured by Bofors and the primer is manufactured by Dynamit Noble. Upon firing, the projectile assembly is propelled from the muzzle of the weapon and travels to the target. Total cartridge weight is 362.6 grains (23.5 grams). Current 7.62mm ammunition is capable of penetrating 1/4" armor plate at a distance of not greater than 100 meters. The M993 7.62mm AP Round is capable of penetrating a 7mm thick high hardness armor (HHA) plate at a distance of 500 meters from the muzzle of the weapon. This corresponds to 1/4" armor plate at a distance of 550m. This item is code "A" approved.

**Justification:**

The FY 2002 procurement is intended for use against current and future light armored targets. The M993 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-40, Budget Item Justification Sheet

Date:

June 2001

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	1344.2	12.3	3.9	8.9	11.8							
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	1344.2	12.3	3.9	8.9	11.8							
Initial Spares												
Total Proc Cost	1344.2	12.3	3.9	8.9	11.8							
Flyaway U/C												
Wpn Sys Proc U/C												

**Description:**

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

This budget line includes 7.62MM ALL TYPES

<b>Exhibit P-5, Weapon AMMO Cost Analysis</b>		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: June 2001		
<b>AMMO Cost Elements</b>	ID CD	<b>FY 00</b>			<b>FY 01</b>			<b>FY 02</b>			<b>FY 03</b>		
		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		325			2506	6809	0.37	3592	13333	0.27			
CTG 7.62MM BALL M80 LINKED/M13		858	1184	0.72	3383	6173	0.55	3534	6912	0.51			
CTG 7.62MM 4 BALL/1 TRACER F/MINIGUN		1592	3702	0.43	1667	3372	0.49	3050	6966	0.44			
CTG 7.62MM 4 BALL/1 TRACER F/OHF		1158	2824	0.41	936	1955	0.48	1221	2869	0.43			
CTG 7.62MM SHORT RG TNG 4B/1T XM					415	110	3.77						
CTG 7.62MM M118 LONG RANGE								436	876	0.50			
<b>Total</b>		<b>3933</b>			<b>8907</b>			<b>11833</b>					

# Exhibit P-40, Budget Item Justification Sheet

Date:

June 2001

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

P-1 Item Nomenclature  
CTG 7.62MM BLANK M82 LINKED/M13 (E01902)

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	1903503	12779		6809	13333							
Gross Cost	233.1	5.7	0.3	2.5	3.6							
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	233.1	5.7	0.3	2.5	3.6							
Initial Spares												
Total Proc Cost	233.1	5.7	0.3	2.5	3.6							
Flyaway U/C												
Wpn Sys Proc U/C												

**Description:**

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

This cartridge consists of a primer and propellant contained in a brass case shaped to conform to the configuration of the service round. The propellant is held in by a wad. The mouth of the cartridge is sealed and crimped. The Blank Firing Attachment (BFA) M21 is installed on the M240 machine gun to enable blank ammunition to be fired and to provide back pressure to sustain continuous firing. This item is Code A, approved for service use.

**Justification:**

This is a training unique item, not used in combat. FY 2002 procurement supports annual peacetime training and builds a depot level in accordance with the Army's procurement goals.

TYPE CLASSIFICATION DATE: 1958

ACQUISITION MANAGER: OSC, Rock Island, Ill

<b>Exhibit P-5, Weapon AMMO Cost Analysis</b>		Appropriation/Budget Activity/Serial No. Procurement of Ammunition, Army / 1 / AMMUNITION			P-1 Line Item Nomenclature: CTG 7.62MM BLANK M82 LINKED/M13 (E01902)			Weapon System Type:			Date: June 2001		
<b>AMMO Cost Elements</b>	ID CD	<b>FY 00</b>			<b>FY 01</b>			<b>FY 02</b>			<b>FY 03</b>		
		TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
		\$000	x1000	\$	\$000	x1000	\$	\$000	x1000	\$	\$000	x1000	\$
<b>AMMUNITION HARDWARE</b>													
Complete Round					2276	6809	0.33	3301	13333	0.25			
<b>SubTotal AMMO Hardware</b>					<b>2276</b>			<b>3301</b>					
<b>Production Support Costs</b>													
Production Engineering		320			162			98					
Quality Assurance		5			35			5					
Acceptance Testing								161					
Industrial Stock Support					33			27					
<b>SubTotal Prod. Support</b>		<b>325</b>			<b>230</b>			<b>291</b>					
<b>Total</b>		<b>325</b>			<b>2506</b>		<b>0.37</b>	<b>3592</b>		<b>0.27</b>			

## Exhibit P-5a, Budget Procurement History and Planning

Date:  
June 2001

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

Weapon System Type:

P-1 Line Item Nomenclature:  
CTG 7.62MM BLANK M82 LINKED/M13 (E01902)

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
<b>Complete Round</b>										
FY 2001	Alliant (Lake City AAP) Independence, MO	SS/FP	OSC, Rock Island, IL	Nov 2000	Oct 2001	6809	0.33	Y		
FY 2002	Alliant (Lake City AAP) Independence, MO	SS/FP	OSC, Rock Island, IL	Nov 2001	Oct 2002	13333	0.25	Y		

REMARKS:





# Exhibit P-40, Budget Item Justification Sheet

Date:

June 2001

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

P-1 Item Nomenclature  
CTG 7.62MM ARMOR PIERCING XM993 (F47500)

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	4440	911	600		1168							
Gross Cost	7.9	1.9	1.3		2.4							
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	7.9	1.9	1.3		2.4							
Initial Spares												
Total Proc Cost	7.9	1.9	1.3		2.4							
Flyaway U/C												
Wpn Sys Proc U/C												

**Description:**

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

The M993 7.62mm Armor Piercing (AP) Round is currently produced by Bofors Carl Gustaf AB of Sweden. The projectile assembly consists of a tungsten core penetrator contained in an aluminum cup and jacketed by tombac (similar to standard gilding metal, 90% copper, 10% zinc) clad steel. The shaped tungsten core provides enhanced armor penetration, representing a key departure from the current 7.62mm ball service round. The Bofors CGAB produced cartridge utilizes a conventional brass cartridge case with a Berdan primer. The propellant is a single base type manufactured by Bofors and the primer is manufactured by Dynamit Noble. Upon firing, the projectile assembly is propelled from the muzzle of the weapon and travels to the target. Total cartridge weight is 362.6 grains (23.5 grams). Current 7.62mm ammunition is capable of penetrating 1/4" armor plate at a distance of not greater than 100 meters. The M993 7.62mm AP Round is capable of penetrating a 7mm thick high hardness armor (HHA) plate at a distance of 500 meters from the muzzle of the weapon. This corresponds to 1/4" armor plate at a distance of 550m. This item is code "A" approved.

**Justification:**

The FY 2002 procurement is intended for use against current and future light armored targets. The M993 offers the capability to defeat these targets at ranges 2 to 3 times that of currently available ammunition. Procurement builds war reserve inventory in accordance with the Army's procurement goals.

Type Classification (TC) Date: February 1996.

Acquisition Manager: Product Manager Small Arms

# Exhibit P-40, Budget Item Justification Sheet

Date:

June 2001

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:

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	2.5	2.7							
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	61.2	2.3	1.2	2.5	2.7							
Initial Spares												
Total Proc Cost	61.2	2.3	1.2	2.5	2.7							
Flyaway U/C												
Wpn Sys Proc U/C												

**Description:**

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

This budget line funds 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 2002 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

<b>Exhibit P-5, Weapon AMMO Cost Analysis</b>		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: June 2001		
<b>AMMO Cost Elements</b>	ID CD	<b>FY 00</b>			<b>FY 01</b>			<b>FY 02</b>			<b>FY 03</b>		
		TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
		\$000	x1000	\$	\$000	x1000	\$	\$000	x1000	\$	\$000	x1000	\$
CTG 9MM BALL M882		1155	9620	0.12	2465	20703	0.12	2657	22679	0.12			
<b>Total</b>		<b>1155</b>			<b>2465</b>			<b>2657</b>					

# Exhibit P-40, Budget Item Justification Sheet

Date:

June 2001

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	428.1	17.2	19.7	16.5	26.8							
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	428.1	17.2	19.7	16.5	26.8							
Initial Spares												
Total Proc Cost	428.1	17.2	19.7	16.5	26.8							
Flyaway U/C												
Wpn Sys Proc U/C												

**Description:**

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

This budget line includes .50 CAL ALL TYPES

<b>Exhibit P-5, Weapon AMMO Cost Analysis</b>		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: June 2001		
<b>AMMO Cost Elements</b>	ID CD	<b>FY 00</b>			<b>FY 01</b>			<b>FY 02</b>			<b>FY 03</b>		
		TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
		\$000	x1000	\$	\$000	x1000	\$	\$000	x1000	\$	\$000	x1000	\$
CTG CAL .50 BALL M33 W/M9 LINK		3386	1751	1.93	5873	2293	2.56	5546	3267	1.70			
CTG CAL .50 4 BALL/1 TRACER W/M9 LINK		16324	8981	1.82	4675	1543	3.03	17103	9658	1.77			
CTG CAL .50 BLANK M1A1 LKD W/M9 LINK		15						2374	3478	0.68			
CTG CAL .50 SLAPT M903 (M962 TRACER)					5945	595	9.99	1800	195	9.23			
<b>Total</b>		<b>19725</b>			<b>16493</b>			<b>26823</b>					

# Exhibit P-40, Budget Item Justification Sheet

Date:

June 2001

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:

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	1451	1751	2293	3267							
Gross Cost	45.2	3.6	3.4	5.9	5.5							
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	45.2	3.6	3.4	5.9	5.5							
Initial Spares												
Total Proc Cost	45.2	3.6	3.4	5.9	5.5							
Flyaway U/C												
Wpn Sys Proc U/C												

**Description:**

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

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 2002 procurement supports annual peacetime training and build a depot level in accordance with the Army's procurement goals.

TYPE CLASSIFICATION DATE: 1951

ACQUISITION MANAGER: OSC, Rock Island, Ill

<b>Exhibit P-5, Weapon AMMO Cost Analysis</b>		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: June 2001		
<b>AMMO Cost Elements</b>	ID CD	<b>FY 00</b>			<b>FY 01</b>			<b>FY 02</b>			<b>FY 03</b>		
		TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
		\$000	x1000	\$	\$000	x1000	\$	\$000	x1000	\$	\$000	x1000	\$
<b>AMMUNITION HARDWARE</b>													
Load, Assemble, and Pack		3035	1751	1.73	5432	2293	2.37	5241	3267	1.60			
Box Metal M2A1		113	18	6.35	151	23	6.47	219	33	6.58			
<b>SubTotal AMMO Hardware</b>		<b>3148</b>			<b>5583</b>			<b>5460</b>					
<b>Production Support Costs</b>													
Production Engineering		186			193			37					
Quality Assurance		4			14			4					
Interim Transportation		2			2								
Industrial Stock Support		46			81			45					
<b>SubTotal Prod. Support</b>		<b>238</b>			<b>290</b>			<b>86</b>					
<b>Total</b>		<b>3386</b>		<b>1.93</b>	<b>5873</b>		<b>2.56</b>	<b>5546</b>		<b>1.70</b>			

## Exhibit P-5a, Budget Procurement History and Planning

Date:  
June 2001

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
<b>Load, Assemble, and Pack</b>										
FY 2000	Alliant Tech (LCAAP) Independence, MO	SS/FP	OSC, Rock Island, IL	Mar 2000	Oct 2000	1751	1.73			
FY 2001	Alliant Tech (LCAAP) Independence, MO	SS/FP	OSC, Rock Island, IL	Feb 2001	Oct 2001	2293	2.37	Y		
FY 2002	Alliant Tech (LCAAP) Independence, MO	SS/FP	OSC, Rock Island, IL	Nov 2001	Oct 2002	3267	1.60	Y		
<b>Box Metal M2A1</b>										
FY 2000	Brockway Standard Homerville, GA	C/FP	OSC, Rock Island, IL	Mar 2000	Jul 2000	18	6.35			
FY 2001	TBS	C/FP	OSC, Rock Island, IL	Jan 2001	Jul 2001	23	6.47	Y		
FY 2002	TBS	C/FP	OSC, Rock Island, IL	Jan 2002	Jul 2002	33	6.58	Y		

REMARKS: TBS - To Be Selected





# Exhibit P-40, Budget Item Justification Sheet

Date:

June 2001

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:

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	4944	8981	1543	9658							
Gross Cost	296.9	13.6	16.3	4.7	17.1							
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	296.9	13.6	16.3	4.7	17.1							
Initial Spares												
Total Proc Cost	296.9	13.6	16.3	4.7	17.1							
Flyaway U/C												
Wpn Sys Proc U/C												

**Description:**

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

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 2002 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

<b>Exhibit P-5, Weapon AMMO Cost Analysis</b>		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: June 2001		
<b>AMMO Cost Elements</b>	ID CD	<b>FY 00</b>			<b>FY 01</b>			<b>FY 02</b>			<b>FY 03</b>		
		TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
		\$000	x1000	\$	\$000	x1000	\$	\$000	x1000	\$	\$000	x1000	\$
<b>AMMUNITION HARDWARE</b>													
Load, Assemble, and Pack		15365	8981	1.71	4064	1543	2.63	16165	9658	1.67			
Box Metal M2A1		581	92	6.35	102	16	6.47	648	99	6.58			
<b>SubTotal AMMO Hardware</b>		<b>15946</b>			<b>4166</b>			<b>16813</b>					
<b>Production Support Costs</b>													
Production Engineering		132			399			144					
Quality Assurance		5			49			5					
Interim Transportation		10			1			1					
Industrial Stock Support		231			60			140					
<b>SubTotal Prod. Support</b>		<b>378</b>			<b>509</b>			<b>290</b>					
<b>Total</b>		<b>16324</b>		<b>1.82</b>	<b>4675</b>		<b>3.03</b>	<b>17103</b>		<b>1.77</b>			<b>1.82</b>

# Exhibit P-5a, Budget Procurement History and Planning

Date:  
June 2001

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
<b>Load, Assemble, and Pack</b>										
FY 2000		SS/FP	OSC, Rock Island, IL	Mar 2000	Oct 2000	8981	1.71			
FY 2001		SS/FP	OSC, Rock Island, IL	Feb 2001	Jan 2002	1543	2.63	Y		
FY 2002		SS/FP	OSC, Rock Island, IL	Nov 2001	Oct 2002	9658	1.67	Y		
<b>Box Metal M2A1</b>										
FY 2000		C/FP	OSC, Rock Island, IL	Mar 2000	Jul 2000	92	6.35			
FY 2001		C/FP	OSC, Rock Island, IL	Jan 2001	Jul 2001	16	6.47	Y		
FY 2002		C/FP	OSC, Rock Island, IL	Jan 2002	Jul 2002	99	6.58	Y		

REMARKS: TBS - To Be Selected





# Exhibit P-40, Budget Item Justification Sheet

Date:

June 2001

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:

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	195							
Gross Cost	10.0			5.9	1.8							
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	10.0			5.9	1.8							
Initial Spares												
Total Proc Cost	10.0			5.9	1.8							
Flyaway U/C												
Wpn Sys Proc U/C												

**Description:**

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

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 2002 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

<b>Exhibit P-5, Weapon AMMO Cost Analysis</b>		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: June 2001		
<b>AMMO Cost Elements</b>	ID CD	<b>FY 00</b>			<b>FY 01</b>			<b>FY 02</b>			<b>FY 03</b>		
		TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
		\$000	x1000	\$	\$000	x1000	\$	\$000	x1000	\$	\$000	x1000	\$
<b>AMMUNITION HARDWARE</b>													
Load, Assemble, and Pack	A				5436	595	9.14	1546	195	7.93			
<b>SubTotal AMMO Hardware</b>					<b>5436</b>			<b>1546</b>					
<b>Production Support Costs</b>													
Production Engineering					202			110					
Quality Assurance					26			20					
Acceptance Testing					24			24					
<b>SubTotal Prod. Support</b>					<b>252</b>			<b>154</b>					
<b>COST - Nonrecurring</b>													
First Article Testing					75								
Engineering Study					182			100					
<b>SubTotal COST - Nonrecurring</b>					<b>257</b>			<b>100</b>					
<b>Total</b>					<b>5945</b>		<b>9.99</b>	<b>1800</b>		<b>9.23</b>			

# Exhibit P-5a, Budget Procurement History and Planning

Date:  
June 2001

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
<b>Load, Assemble, and Pack</b>										
FY 2001	Olin East Olten, IL	SS/OPT	TACOM-ARDEC	Aug 01	Jun 02	595	9.14			
FY 2002	Olin East Olten, IL	SS/OPT	TACOM-ARDEC	Jun 02	Jan 03	195	7.93			

REMARKS:





# Exhibit P-40, Budget Item Justification Sheet

Date:

June 2001

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:

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			373	404							
Gross Cost	5.9			3.0	3.2							
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	5.9			3.0	3.2							
Initial Spares												
Total Proc Cost	5.9			3.0	3.2							
Flyaway U/C												
Wpn Sys Proc U/C												

**Description:**

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

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.

**Justification:**

This is a war reserve item, used in combat. FY 2002 procurement builds toward the war reserve requirement.

TYPE CLASSIFICATION DATE:

February 1996

ACQUISITION MANAGER:

OSC, Rock Island, Ill

# Exhibit P-40, Budget Item Justification Sheet

Date:

June 2001

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	2.0	0.1							
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	295.6		0.0	2.0	0.1							
Initial Spares												
Total Proc Cost	295.6		0.0	2.0	0.1							
Flyaway U/C												
Wpn Sys Proc U/C												

**Description:**

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

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

<b>Exhibit P-5, Weapon AMMO Cost Analysis</b>		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: June 2001		
<b>AMMO Cost Elements</b>	ID CD	<b>FY 00</b>			<b>FY 01</b>			<b>FY 02</b>			<b>FY 03</b>		
		TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
		\$000	x1000	\$	\$000	x1000	\$	\$000	x1000	\$	\$000	x1000	\$
CTG 20MM LINKED TP M55A2/TPT		1			1986	321	6.19	85					
<b>Total</b>		<b>1</b>			<b>1986</b>			<b>85</b>					

# Exhibit P-40, Budget Item Justification Sheet

Date:

June 2001

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	79.7	47.7	65.8	46.2							
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	1233.6	79.7	47.7	65.8	46.2							
Initial Spares												
Total Proc Cost	1233.6	79.7	47.7	65.8	46.2							
Flyaway U/C												
Wpn Sys Proc U/C												

**Description:**

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

This budget line includes 25MM ALL TYPES.

<b>Exhibit P-5, Weapon AMMO Cost Analysis</b>		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: June 2001		
<b>AMMO Cost Elements</b>	ID CD	<b>FY 00</b>			<b>FY 01</b>			<b>FY 02</b>			<b>FY 03</b>		
		TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
		\$000	x1000	\$	\$000	x1000	\$	\$000	x1000	\$	\$000	x1000	\$
CTG 25MM TP-T M793		16456	1216	13.53	15673	1124	13.94	16083	1163	13.82			
CTG 25MM TPDS-T M910		582			18143	1101	16.48	24148	1530	15.78			
CTG 25MM APFSDS-T M919		30692	253	121.31	31954	284	112.51	6000	30	200.00			
<b>Total</b>		<b>47730</b>			<b>65770</b>			<b>46231</b>					

# Exhibit P-40, Budget Item Justification Sheet

Date:

June 2001

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:

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	1254	1216	1124	1163							
Gross Cost	282.8	17.5	16.5	15.7	16.1							
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	282.8	17.5	16.5	15.7	16.1							
Initial Spares												
Total Proc Cost	282.8	17.5	16.5	15.7	16.1							
Flyaway U/C												
Wpn Sys Proc U/C												

**Description:**

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

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 2002 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

<b>Exhibit P-5, Weapon AMMO Cost Analysis</b>		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: June 2001		
<b>AMMO Cost Elements</b>	ID CD	<b>FY 00</b>			<b>FY 01</b>			<b>FY 02</b>			<b>FY 03</b>		
		TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
		\$000	x1000	\$	\$000	x1000	\$	\$000	x1000	\$	\$000	x1000	\$
<b>AMMUNITION HARDWARE</b>													
Load, Assemble, and Pack		13500	1216	11.10	12484	1124	11.10	13491	1163	11.60			
Container PA125		1785	41	43.96	1623	38	43.23	1528	39	39.32			
Pallet Steel w/Adapter		400	1	410.84	372	1	412.88						
<b>SubTotal AMMO Hardware</b>		<b>15685</b>			<b>14479</b>			<b>15019</b>					
<b>Production Support Costs</b>													
Production Engineering		463			955			910					
Quality Assurance		4			9			27					
Acceptance Testing													
Interim Transportation		46			20			2					
Industrial Stock Support		258			210			125					
<b>SubTotal Prod. Support</b>		<b>771</b>			<b>1194</b>			<b>1064</b>					
<b>Total</b>		<b>16456</b>		<b>13.53</b>	<b>15673</b>		<b>13.94</b>	<b>16083</b>		<b>13.82</b>			

## Exhibit P-5a, Budget Procurement History and Planning

Date:  
June 2001

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
<b>Load, Assemble, and Pack</b>										
FY 2000	Primex Tech Marion, IL	CM-2/FP*	OSC, Rock Island, IL	Mar 2000	Feb 2001	669	11.10			
FY 2000	Alliant Tech Sys, Inc New Brighton, MN	CM-2/FP*	OSC, Rock Island, IL	Mar 2000	Aug 2001	547	11.10			
FY 2001	Primex Tech Marion, IL	CM-3/FP*	OSC, Rock Island, IL	Mar 2001	Mar 2002	618	11.10	Y		
FY 2001	Alliant Tech Sys, Inc New Brighton, MN	CM-3/FP	OSC, Rock Island, IL	Mar 2001	Mar 2002	506	11.10			
FY 2002	TBS	CM-4/FP*	OSC, Rock Island, IL	Mar 2002	Mar 2003	1163	11.60	Y		
<b>Container PA125</b>										
FY 2000	Conco Inc Louisville, KY	C/FP	OSC, Rock Island, IL	Apr 2000	Dec 2000	41	43.96			
FY 2001	Conco Inc Louisville, KY	C/FP	OSC, Rock Island, IL	Apr 2001	Dec 2001	38	43.23	Y		
FY 2002	TBS	C/FP	OSC, Rock Island, IL	Apr 2002	Dec 2002	39	39.32	Y		
<b>Pallet Steel w/Adapter</b>										
FY 2000	Conco Inc Louisville, KY	C/FP	OSC, Rock Island, IL	Apr 2000	Dec 2000	1	410.84			
FY 2001	Conco Inc Louisville, KY	C/FP	OSC, Rock Island, IL	Apr 2001	Dec 2001	1	412.88	Y		

REMARKS: TBS - To Be Selected  
\*This is a Five Multi-Year Contract with Primex and Alliant







# Exhibit P-40, Budget Item Justification Sheet

Date:

June 2001

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:

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	2551		1101	1530							
Gross Cost	276.7	40.6	0.6	18.1	24.1							
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	276.7	40.6	0.6	18.1	24.1							
Initial Spares												
Total Proc Cost	276.7	40.6	0.6	18.1	24.1							
Flyaway U/C												
Wpn Sys Proc U/C												

**Description:**

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

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 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 2002 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

<b>Exhibit P-5, Weapon AMMO Cost Analysis</b>		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: June 2001		
<b>AMMO Cost Elements</b>	ID CD	<b>FY 00</b>			<b>FY 01</b>			<b>FY 02</b>			<b>FY 03</b>		
		TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
		\$000	x1000	\$	\$000	x1000	\$	\$000	x1000	\$	\$000	x1000	\$
<b>AMMUNITION HARDWARE</b>													
Load, Assemble, and Pack					14769	1101	13.42	20891	1530	13.65			
Container PA125					1589	37	43.23	2010	51	39.32			
Pallet Steel w/Adapter					364	1	412.88						
<b>SubTotal AMMO Hardware</b>					<b>16722</b>			<b>22901</b>					
<b>Production Support Costs</b>													
Production Engineering		582			1149			715					
Quality Assurance					10			42					
Acceptance Testing								297					
Interim Transportation					20			3					
Industrial Stock Support					242			190					
<b>SubTotal Prod. Support</b>		<b>582</b>			<b>1421</b>			<b>1247</b>					
<b>Total</b>		<b>582</b>			<b>18143</b>		<b>16.48</b>	<b>24148</b>		<b>15.78</b>			<b>15.41</b>

## Exhibit P-5a, Budget Procurement History and Planning

Date:  
June 2001

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
<b>Load, Assemble, and Pack</b>										
FY 2001	Primex Tech Marion, IL	CM-3/FP*	OSC, Rock Island, IL	Mar 2001	Sep 2002	605	13.42	Y		
FY 2001	Alliant Tech New Brighton, MN	CM-4/FP*	OSC, Rock Island, IL	Mar 2001	Sep 2002	495	13.42	Y		
FY 2002	TBS	CM-5/FP*	OSC, Rock Island, IL	Mar 2002	Mar 2003	1530	13.65	Y		
<b>Container PA125</b>										
FY 2001	TBS	C/FP	OSC, Rock Island, IL	Apr 2001	Jun 2002	37	43.23	Y		
FY 2002	TBS	C/FP	OSC, Rock Island, IL	Apr 2002	Dec 2002	51	39.32	Y		
<b>Pallet Steel w/Adapter</b>										
FY 2001	TBS	C/FP	OSC, Rock Island, IL	Apr 2001	Jun 2002	1	412.88	Y		

REMARKS: TBS - To Be Selected  
\* These buys are a part of a 5 year multiyear procurement for medium caliber 25mm and 30mm training ammunition.







# Exhibit P-40, Budget Item Justification Sheet

Date:

June 2001

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:

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	284	30							
Gross Cost	167.5	20.6	30.7	32.0	6.0							
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	167.5	20.6	30.7	32.0	6.0							
Initial Spares												
Total Proc Cost	167.5	20.6	30.7	32.0	6.0							
Flyaway U/C												
Wpn Sys Proc U/C												

**Description:**

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

The 25MM Armor Piercing Fin Stabilized Discarding Sabot w/Tracer(APFSDS-T) M919. The M919 uses the state-of-the-art technology by incorporating high energy propellants, low drag design, aluminum sabot, and improved depleted uranium penetrator material. This item is code A, approved for service use.

**Justification:**

The procurement of the M919 adheres to the US Army's Transformation Campaign Plan and Modernization Strategy. The M919 replaces the M791 as the primary armor-piercing cartridge for use in the 25MM M242 Automatic Gun mounted on the Bradley Fighting Vehicle System. The M919 round 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 targets. The M919 is the only 25mm "long-rod" penetrator produced for the M242 cannon. The M919 provides the US Soldier greater standoff, thus increasing battlefield survivability for the Bradley Crew and all Infantry Support. The M919 provides the US 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).

<b>Exhibit P-5, Weapon AMMO Cost Analysis</b>		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: June 2001		
<b>AMMO Cost Elements</b>	ID CD	<b>FY 00</b>			<b>FY 01</b>			<b>FY 02</b>			<b>FY 03</b>		
		TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
		\$000	x1000	\$	\$000	x1000	\$	\$000	x1000	\$	\$000	x1000	\$
<b>AMMUNITION HARDWARE</b>													
1. Complete Round		27025	253	107	28459	284	100	4080	30	136			
2. Other Hardware		532			465			50					
3. Hazardous Waste Disposal					422			150					
<b>SubTotal AMMO Hardware</b>		<b>27557</b>			<b>29346</b>			<b>4280</b>					
<b>Production Support Costs</b>													
Production Engineering		995			908			475					
Quality Assurance		429			675			370					
Acceptance Testing		475			375			175					
<b>SubTotal Prod. Support</b>		<b>1899</b>			<b>1958</b>			<b>1020</b>					
<b>COST - Nonrecurring</b>													
Program Closeout								500					
ECP's		1236			650			200					
<b>SubTotal COST - Nonrecurring</b>		<b>1236</b>			<b>650</b>			<b>700</b>					
<b>Total</b>		<b>30692</b>			<b>31954</b>			<b>6000</b>					

## Exhibit P-5a, Budget Procurement History and Planning

Date:  
June 2001

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
<b>1. Complete Round</b>										
FY 2000	PRIMEX MARION, IL	SS/FP	ARDEC	Feb 00	Sep-00	253	107	Yes	No	
FY 2001	PRIMEX MARION, IL	SS/FP	ARDEC	Nov 00	July-01	284	100	Yes	No	
FY 2002	PRIMEX MARION, IL	SS/FP	ARDEC	Nov 01	July-02	30	136	Yes	No	

REMARKS:



# Exhibit P-40, Budget Item Justification Sheet

Date:

June 2001

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	9.8							
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	255.1	10.5	6.5	14.4	9.8							
Initial Spares												
Total Proc Cost	255.1	10.5	6.5	14.4	9.8							
Flyaway U/C												
Wpn Sys Proc U/C												

**Description:**

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

This budget line includes 30MM ALL TYPES

<b>Exhibit P-5, Weapon AMMO Cost Analysis</b>		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: June 2001		
<b>AMMO Cost Elements</b>	ID CD	<b>FY 00</b>			<b>FY 01</b>			<b>FY 02</b>			<b>FY 03</b>		
		TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
		\$000	x1000	\$	\$000	x1000	\$	\$000	x1000	\$	\$000	x1000	\$
CTG 30MM TP M788		6519	523	12.46	9429	820	11.50	9811	831	11.81			
CTG 30MM HEDP M789					4954	88	56.46						
<b>Total</b>		<b>6519</b>			<b>14383</b>			<b>9811</b>					

# Exhibit P-40, Budget Item Justification Sheet

Date:

June 2001

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:

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	914	523	820	831							
Gross Cost	98.9	10.5	6.5	9.4	9.8							
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	98.9	10.5	6.5	9.4	9.8							
Initial Spares												
Total Proc Cost	98.9	10.5	6.5	9.4	9.8							
Flyaway U/C												
Wpn Sys Proc U/C												

**Description:**

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

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 2002 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

<b>Exhibit P-5, Weapon AMMO Cost Analysis</b>		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: June 2001		
<b>AMMO Cost Elements</b>	ID CD	<b>FY 00</b>			<b>FY 01</b>			<b>FY 02</b>			<b>FY 03</b>		
		TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
		\$000	x1000	\$	\$000	x1000	\$	\$000	x1000	\$	\$000	x1000	\$
<b>AMMUNITION HARDWARE</b>													
Complete Round		5681	523	10.86	8935	820	10.90	9053	831	10.90			
<b>SubTotal AMMO Hardware</b>		<b>5681</b>			<b>8935</b>			<b>9053</b>					
<b>Production Support Costs</b>													
Production Engineering		739			353			661					
Quality Assurance		17			11			22					
Industrial Stock Support		82			130			75					
<b>SubTotal Prod. Support</b>		<b>838</b>			<b>494</b>			<b>758</b>					
<b>Total</b>		<b>6519</b>		<b>12.46</b>	<b>9429</b>		<b>11.50</b>	<b>9811</b>		<b>11.81</b>			<b>11.81</b>

## Exhibit P-5a, Budget Procurement History and Planning

Date:  
June 2001

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
<b>Complete Round</b>										
FY 2000	Alliant Tech Sys, Inc New Brighton, MN	CM-2/FP*	OSC, Rock Island, IL	Mar 2000	Jun 2001	523	10.86			
FY 2001	Alliant Tech Sys, Inc New Brighton, MN	CM-3/FP*	OSC, Rock Island, IL	Mar 2001	Jan 2002	820	10.90	Y		
FY 2002	TBS	CM-4/FP*	OSC, Rock Island, IL	Mar 2002	Jan 2003	831	10.90	Y		

REMARKS: TBS - To Be Selected  
\*These buys are a part of a Five Multi-Year Contract







# Exhibit P-40, Budget Item Justification Sheet

Date:

June 2001

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	650.9	33.3	44.4	62.2	49.4							
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	650.9	33.3	44.4	62.2	49.4							
Initial Spares												
Total Proc Cost	650.9	33.3	44.4	62.2	49.4							
Flyaway U/C												
Wpn Sys Proc U/C												

**Description:**

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

This budget line includes 40MM ALL TYPES

<b>Exhibit P-5, Weapon AMMO Cost Analysis</b>		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: June 2001		
<b>AMMO Cost Elements</b>	ID CD	<b>FY 00</b>			<b>FY 01</b>			<b>FY 02</b>			<b>FY 03</b>		
		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		1109											
CTG 40MM WHITE STAR PARA M583		627	26	24.06									
CTG 40MM PRACTICE M385A1		91			732	47	15.49	961	69	14.00			
CTG 40MM TP M918 LINKED F/MK 19MG		37130	2051	18.10	52102	2923	17.82	46178	2749	16.80			
CTG 40MM PRACTICE M781		3872	961	4.03	7508	1953	3.85	283					
CTG 40MM NON-LETHAL XM1006		1526	115	13.27	1870	115	16.26	1973	146	13.51			
AMMO 40MM CANNISTER XM1001													
<b>Total</b>		<b>44355</b>			<b>62212</b>			<b>49395</b>					

# Exhibit P-40, Budget Item Justification Sheet

Date:

June 2001

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:

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	1445	2051	2923	2749							
Gross Cost	182.8	25.2	37.1	52.1	46.2							
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	182.8	25.2	37.1	52.1	46.2							
Initial Spares												
Total Proc Cost	182.8	25.2	37.1	52.1	46.2							
Flyaway U/C												
Wpn Sys Proc U/C												

**Description:**

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

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 2002 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

<b>Exhibit P-5, Weapon AMMO Cost Analysis</b>		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: June 2001		
<b>AMMO Cost Elements</b>	ID CD	<b>FY 00</b>			<b>FY 01</b>			<b>FY 02</b>			<b>FY 03</b>		
		TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
		\$000	x1000	\$	\$000	x1000	\$	\$000	x1000	\$	\$000	x1000	\$
<b>AMMUNITION HARDWARE</b>													
Load, Assemble, and Pack		14791	2051	7.21	19913	2923	6.81	18660	2749	6.79			
Proj Assy		15304	2112	7.24	22180	3011	7.37	19111	2831	6.75			
*M2 SP .019 F/40MM (LB)		494	31	16.07	737	44	16.81	693	41	16.90			
M550 Escape Assy		3758	2160	1.74	5447	3079	1.77	5209	2895	1.80			
DET Stab M55		1536	2164	0.71	2343	3084	0.76	2240	2900	0.10			
<b>SubTotal AMMO Hardware</b>		<b>35883</b>			<b>50620</b>			<b>45913</b>					
<b>Production Support Costs</b>													
Production Engineering		478			735			522					
Quality Assurance		8			10			14					
Acceptance Testing		3											
Interim Transportation		546			632			41					
Industrial Stock Support		706			842			381					
<b>SubTotal Prod. Support</b>		<b>1741</b>			<b>2219</b>			<b>958</b>					
<b>COST - Nonrecurring</b>													
Government Furnished Material		-494			-737			-693					
<b>SubTotal COST - Nonrecurring</b>													
<b>Total</b>		<b>37130</b>		<b>18.10</b>	<b>52102</b>		<b>17.82</b>	<b>46178</b>		<b>16.80</b>			

## Exhibit P-5a, Budget Procurement History and Planning

Date:  
June 2001

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
<b>Load, Assemble, and Pack</b>										
FY 2000	American Ordnance (MAAP) Milan, TN	C/FP	OSC, Rock Island, IL	Sep 2000	Jul 2001	2051	7.21			
FY 2001	American Ordnance (MAAP) Milan, TN	C/FP	OSC, Rock Island, IL	Mar 2001	Jul 2002	2923	6.81	Y		
FY 2002	TBS	C/FP	OSC, Rock Island, IL	Dec 2001	Jul 2003	2749	6.79	Y		
<b>Proj Assy</b>										
FY 2000	Teknocraft Inc Palm Bay, FL	C/FP	OSC, Rock Island, IL	Aug 2000	Jul 2001	2112	7.24			
FY 2001	JKS Ind Tampa, FL	C/FP	OSC, Rock Island, IL	Aug 2000	Jul 2001	3011	7.37	Y		
FY 2002	TBS	C/FP	OSC, Rock Island, IL	Jun 2001	May 2002	2831	6.75	Y		
<b>*M2 SP .019 F/40MM (LB)</b>										
FY 2000	Stock Issue	N/A	N/A	N/A	N/A	31				
FY 2001	Stock Issue	N/A	N/A	N/A	N/A	44				
FY 2002	Stock Issue	N/A	N/A	N/A	N/A	41				
<b>M550 Escape Assy</b>										
FY 2000	Dayron Corp Orlando, FL	C/FP	OSC, Rock Island, IL	Jun 2000	Oct 2000	881	1.74			
FY 2000	TBS	C/FP	OSC, Rock Island, IL	May 2001	Jul 2001	1279	1.77			

REMARKS: TBS - To Be Selected  
\*Government Furnished Material

## Exhibit P-5a, Budget Procurement History and Planning

Date:  
June 2001

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 2001	TBS	C/FP	OSC, Rock Island, IL	May 2001	Mar 2002	3079	1.77	Y		
FY 2002	TBS	C/FP	OSC, Rock Island, IL	Dec 2001	Mar 2003	2895	1.80	Y		
<b>DET Stab M55</b>										
FY 2000	Day & Zimmerman (LSAAP) Texarkana, TX	C/FP	OSC, Rock Island, IL	Jul 2000	Sep 2000	2164	0.71			
FY 2001	TBS	C/FP	OSC, Rock Island, IL	May 2001	Jan 2002	3084	0.76	Y		
FY 2002	TBS	C/FP	OSC, Rock Island, IL	Dec 2001	Jan 2003	2900	0.77	Y		

REMARKS: TBS - To Be Selected  
\*Government Furnished Material







# Exhibit P-40, Budget Item Justification Sheet

Date:

June 2001

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:

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	1126	961	1953								
Gross Cost	39.2	5.1	3.9	7.5	0.3							
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	39.2	5.1	3.9	7.5	0.3							
Initial Spares												
Total Proc Cost	39.2	5.1	3.9	7.5	0.3							
Flyaway U/C												
Wpn Sys Proc U/C												

**Description:**

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

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 2002 funds will be used to fund annualized production support cost.

TYPE CLASSIFICATION DATE: 1978

ACQUISITION MANAGER: OSC, Rock Island, Ill

<b>Exhibit P-5, Weapon AMMO Cost Analysis</b>		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: June 2001		
<b>AMMO Cost Elements</b>	ID CD	<b>FY 00</b>			<b>FY 01</b>			<b>FY 02</b>			<b>FY 03</b>		
		TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
		\$000	x1000	\$	\$000	x1000	\$	\$000	x1000	\$	\$000	x1000	\$
<b>AMMUNITION HARDWARE</b>													
Complete Round		3608	961	3.76	7105	1953	3.64						
<b>SubTotal AMMO Hardware</b>		<b>3608</b>			<b>7105</b>								
<b>Production Support Costs</b>													
Production Engineering		210			292			275					
Quality Assurance		2			8			8					
Industrial Stock Support		52			103								
<b>SubTotal Prod. Support</b>		<b>264</b>			<b>403</b>			<b>283</b>					
<b>Total</b>		<b>3872</b>		<b>4.03</b>	<b>7508</b>		<b>3.85</b>	<b>283</b>					

## Exhibit P-5a, Budget Procurement History and Planning

Date:  
June 2001

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
<b>Complete Round</b>										
FY 2000	Martin Elec Perry, FL	C/FP	OSC, Rock Island, IL	Sep 2000	Jun 2001	961	3.76			
FY 2001	TBS	C/FP	OSC, Rock Island, IL	Aug 2001	Jun 2002	1953	3.64	Y		

REMARKS: TBS - To Be Selected





# Exhibit P-40, Budget Item Justification Sheet

Date:

June 2001

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:

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							
Gross Cost			7.7	10.3	5.9							
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)			7.7	10.3	5.9							
Initial Spares												
Total Proc Cost			7.7	10.3	5.9							
Flyaway U/C												
Wpn Sys Proc U/C												

**Description:**

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

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 system supports the Legacy-to-Objective transition path of the Transformation Campaign Plan (TCP).

**Justification:**

The FY 2002 procurement will provides 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 Countermine and Demolitions (PM-MCD)

<b>Exhibit P-5, Weapon AMMO Cost Analysis</b>		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: June 2001		
<b>AMMO Cost Elements</b>	ID CD	<b>FY 00</b>			<b>FY 01</b>			<b>FY 02</b>			<b>FY 03</b>		
		TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
		\$000	Each	\$	\$000	Each	\$	\$000	Each	\$	\$000	Each	\$
<b>Hardware</b>													
Complete Set		4147	5	829	7393	5	1479	4788	5	958			
<b>Subtotal</b>		<b>4147</b>			<b>7393</b>			<b>4788</b>					
<b>Production Support</b>													
Production Engineering		1556			1133			503					
Quality Assurance		406			308			200					
<b>Subtotal</b>		<b>1962</b>			<b>1441</b>			<b>703</b>					
<b>Non Recurring Costs</b>													
Special Tooling & Testing (AWE)		105											
Health Hazard Assessment		300											
Industrial Stock Support		250			250			150					
Integrated Logistics Support		400			450			250					
Urgent Fielding Materiel Release		360			518								
Product Improvements		188			250								
<b>Subtotal</b>		<b>1603</b>			<b>1468</b>			<b>400</b>					
<b>Total</b>		<b>7712</b>			<b>10302</b>			<b>5891</b>					

## Exhibit P-5a, Budget Procurement History and Planning

Date:  
June 2001

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
<b>Complete Set</b>										
FY 2000	ARDEC Picatinny Arsenal, NJ	SS/FP	ARDEC	Mar 00	Apr 00	5	829	Yes		
FY 2001	ARDEC Picatinny Arsenal, NJ	SS/FP	ARDEC	Aug 01	Jan 02	5	1479	Yes		
FY 2002	ARDEC Picatinny Arsenal, NJ	Option	ARDEC	Dec 01	Aug 02	5	958	Yes		

REMARKS:







# Exhibit P-40, Budget Item Justification Sheet

Date:

June 2001

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	26.8	23.6	33.4	45.4							
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	217.2	26.8	23.6	33.4	45.4							
Initial Spares												
Total Proc Cost	217.2	26.8	23.6	33.4	45.4							
Flyaway U/C												
Wpn Sys Proc U/C												

**Description:**

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

This line includes 60mm Mortar Ammunition, All Types

<b>Exhibit P-5, Weapon AMMO Cost Analysis</b>		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: June 2001		
<b>AMMO Cost Elements</b>	ID CD	<b>FY 00</b>			<b>FY 01</b>			<b>FY 02</b>			<b>FY 03</b>		
		TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
		\$000	x1000	\$	\$000	x1000	\$	\$000	x1000	\$	\$000	x1000	\$
E67303 CTG MTR 60MM HE M720A1 W/MO Fuze		4936	2	2350				18279	40	454			
E67304 CTG MTR 60MM HE W/PD FUZE M888		15415	231	67	239								
E70400 CTG MTR 60MM ILLUM M721/M767					10671	19	553	7488	12	601			
E70500 CTG MTR 60MM SMOKE WP M722		2960	9	329				251					
E72000 CTG MTR 60MM 1/10 PRAC M766					2707	3	1						
E83500 REFURB KIT F/60MM PRAC M766													
E92200 60MM MTR, FULL RANGE PRAC XM769					2941	5	1	7535	49	154			
E92900 CTG,MTR,60MM HE W/PD FUZE, XM768		300			16805	43	391	11836	36	324			
<b>Total</b>		<b>23611</b>			<b>33363</b>			<b>45389</b>					

# Exhibit P-40, Budget Item Justification Sheet

Date:

June 2001

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:  
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	1093	41	2		40							
Gross Cost	114.2	20.4	4.9		18.3							
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	114.2	20.4	4.9		18.3							
Initial Spares												
Total Proc Cost	114.2	20.4	4.9		18.3							
Flyaway U/C												
Wpn Sys Proc U/C												

**Description:**

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

The 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 composition B explosive will be replaced by a new insensitive 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. The proximity fuze setting bursts at a height over the target which is optimized for lethality. The basic item is code A; it has been approved for service use. The M720A1 version is code B, not yet approved for service use.

**Justification:**

The FY 2002 procurement builds war reserve inventory and supports training.

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

ACQUISITION MANAGER: PM Mortars

<b>Exhibit P-5, Weapon AMMO Cost Analysis</b>		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: June 2001		
<b>AMMO Cost Elements</b>	ID CD	<b>FY 00</b>			<b>FY 01</b>			<b>FY 02</b>			<b>FY 03</b>		
		TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
		\$000	x1000	\$	\$000	x1000	\$	\$000	x1000	\$	\$000	x1000	\$
<b>AMMUNITION HARDWARE</b>													
Load, Assemble, and Pack		179	2	85				3592	40	89			
Shell Body - HF1		96	2	44				1903	42	45			
Fuze, Multi-Option M734A1		534	2	245				9439	42	226			
Ignition Cartridge M702		45	2	21				728	42	17			
Propelling Charge M235		54	9	6				1063	165	6			
Fin Assembly M27		14	2	6				288	42	7			
<b>SubTotal AMMO Hardware</b>		<b>922</b>						<b>17013</b>					
<b>Production Support Costs</b>													
Production Engineering		393						640					
Quality Assurance		100						197					
Acceptance Testing		128						322					
Interim Transportation		11						107					
<b>SubTotal Prod. Support</b>		<b>632</b>						<b>1266</b>					
<b>COST - Nonrecurring</b>													
new element													
Initial Production Testing													
Materiel Change - Insensitive Munition		1191											
Calibration Lot		2191											
<b>SubTotal COST - Nonrecurring</b>		<b>3382</b>											
<b>Total</b>		<b>4936</b>		<b>2360</b>			<b>454</b>	<b>18279</b>		<b>509</b>			

# Exhibit P-5a, Budget Procurement History and Planning

Date:  
June 2001

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
<b>Load, Assemble, and Pack</b>										
FY 2000	UNKNOWN	C/FP	TACOM	Jun 01	Feb 04	2	85	NO	Jun 01	
FY 2002	UNKNOWN	OPT	TACOM	Feb 02	Feb 04	40	89	NO	Jun 01	
<b>Shell Body - HF1</b>										
FY 2000	Medico Industries Inc Scranton PA	C/FP	TACOM	Sep 00	Nov 01	2	44	YES	N/A	
FY 2002	Medico Industries Inc Scranton PA	OPT	TACOM	Feb 02	Feb 03	42	45	YES	N/A	
<b>Fuze, Multi-Option M734A1</b>										
FY 2000	KDI Precision Products Inc Cincinnati, OH	OPT	TACOM	Feb 00	Feb 01	2	245	YES	N/A	
FY 2002	KDI Precision Products Inc Cincinnati, OH	OPT	TACOM	Feb 02	Feb 03	42	226	YES	N/A	
<b>Ignition Cartridge M702</b>										
FY 2000	Hitech Inc Woodbury AR	C/FP	TACOM	Sep 00	Nov 01	2	21	YES	N/A	
FY 2002	Hitech Inc Woodbury AR	OPT	TACOM	Feb 02	Feb 03	42	17	YES	N/A	
<b>Propelling Charge M235</b>										
FY 2000	Valentec Systems Inc Mt. Arlington, NJ	OPT	TACOM	Mar 00	Apr 01	9	6	YES	N/A	
FY 2002	Valentec Systems Inc Mt. Arlington, NJ	OPT	TACOM	Feb 02	Mar 03	165	6	YES	N/A	

REMARKS: LAP for the M720A1, XM768 and XM769 will be combined on one contract. Shell bodies for the M720A1, XM768 and XM769 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; M734A1 Fuze - C/FP FY98; M235 Prop Charge - C/FP FY98 ; M27 Fin Assembly - C/FP FY99

## Exhibit P-5a, Budget Procurement History and Planning

Date:  
June 2001

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
<b>Fin Assembly M27</b>										
FY 2000	Gayston Corp. Springboro, OH	OPT	TACOM	Jul 00	Aug 01	2	6	YES	N/A	
FY 2002	Gayston Corp. Springboro, OH	OPT	TACOM	Feb 02	Jan 03	42	7	YES	N/A	

REMARKS: LAP for the M720A1, XM768 and XM769 will be combined on one contract. Shell bodies for the M720A1, XM768 and XM769 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; M734A1 Fuze - C/FP FY98; M235 Prop Charge - C/FP FY98 ; M27 Fin Assembly - C/FP FY99



FY 03 / 04 BUDGET PRODUCTION SCHEDULE							P-1 Item Nomenclature: CTG MORTAR 60MM HE M720/M720A1 W/M734 FUZE (E67303)										Date: June 2001													
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													
							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 00 P	A	40	0	40											5	10	10		10	5				0				
	1	FY 00	A	2	0	2																2				0				
	1	FY 02	A	40	0	40															3	10	10	10	7	0				
Fuze, Multi-Option M734A1																														
	3	FY 00 P	A	43	43	0																				0				
	3	FY 00	A	2	2	0																				0				
	3	FY 02	A	42	0	42						15	15	12												0				
Total				169	45	124						15	15	12			5	10	10		10	10	10	10	10	7				
							OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MFR	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	UNKNOWN	5.00	10.00	25.00	0	1	INITIAL	6	7	28	35	FY99 Production late due to delay in Type Classification of insensitive munition material change.																		
							REORDER	3	5	21	26																			
3	KDI Precision Products Inc, Cincinnati, OH	5.00	15.00	40.00	0	3	INITIAL	0	0	0	0																			
							REORDER	0	0	0	0																			
							INITIAL																							
							REORDER																							
							INITIAL																							
							REORDER																							



# Exhibit P-40, Budget Item Justification Sheet

Date:

June 2001

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

P-1 Item Nomenclature  
CTG MORTAR 60MM HE W/PD FUZE M888 (E67304)

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	52	30	231									
Gross Cost	5.8	2.0	15.4	0.2								
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	5.8	2.0	15.4	0.2								
Initial Spares												
Total Proc Cost	5.8	2.0	15.4	0.2								
Flyaway U/C												
Wpn Sys Proc U/C												

**Description:**

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

The round is used against personnel and materiel providing both fragmentation and blast effect. It uses the M935 fuze, fin assembly, and a projectile body with a TNT explosive fill. The round uses a point detonating fuze. This item is Code A, approved for service use.

**Justification:**

Procurement supports annual peacetime training requirements and builds toward a depot level.

TYPE CLASSIFICATION DATE: 1986

ACQUISITION MANAGER: OSC, Rock Island, Ill

<b>Exhibit P-5, Weapon AMMO Cost Analysis</b>		Appropriation/Budget Activity/Serial No. Procurement of Ammunition, Army / 1 / AMMUNITION			P-1 Line Item Nomenclature: CTG MORTAR 60MM HE W/PD FUZE M888 (E67304)			Weapon System Type:			Date: June 2001		
<b>AMMO Cost Elements</b>	ID CD	<b>FY 00</b>			<b>FY 01</b>			<b>FY 02</b>			<b>FY 03</b>		
		TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
		\$000	x1000	\$	\$000	x1000	\$	\$000	x1000	\$	\$000	x1000	\$
<b>AMMUNITION HARDWARE</b>													
Load, Assemble, and Pack		6299	231	27.30									
*M720 Proj MPTS		2452	240	10.22									
*Comp B Type I Grade A (LB)		286	185	1.55									
*TNT Type I Flake (LB)		130	92	1.41									
M27 Fin Assembly		1355	240	5.65									
M702 Ignition Cartridge		2810	240	11.71									
*M9 Flake .006 F/60MM (LB)		105	2	57.00									
*Nitrocellulose WW GR A (LB)		38	8	5.00									
*M10 Flake .008 (LB)		351	18	19.00									
LAP Chg Prop M204		793	932	0.85									
Container Assy M204		2106	932	2.26									
*M935 Fuze		1324	238	5.57									
FZ MPTS M935		1199	120	10.00									
*FZ MPTS M935		2885	120	24.04									
*Comp A-5 Class 1 (LB)		54	7	7.85									
*RDX Type II Clas 3 (LB)		3		8.57									
<b>SubTotal AMMO Hardware</b>		<b>22190</b>											
<b>Production Support Costs</b>													
Production Engineering		157			239								
Quality Assurance		5											
Acceptance Testing		75											
Interim Transportation		294											
Industrial Stock Support		322											
<b>SubTotal Prod. Support</b>		<b>853</b>			<b>239</b>								
<b>COST - Nonrecurring</b>													
Government Furnished Material		-7628											
<b>SubTotal COST - Nonrecurring</b>													
<b>Total</b>		<b>15415</b>		<b>66.82</b>	<b>239</b>								

## Exhibit P-5a, Budget Procurement History and Planning

Date:  
June 2001

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 M888 (E67304)

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
<b>Load, Assemble, and Pack</b> FY 2000	American Ordnance (MAAP) Milan, TN	SS/FP	OSC, Rock Island, IL	Jul 2000	Mar 2001	231	27.30			
<b>*M720 Proj MPTS</b> FY 2000	Stock Issue	N/A	N/A	N/A	N/A	240				
<b>*Comp B Type I Grade A (LB)</b> FY 2000	Stock Issue	N/A	N/A	N/A	N/A	185				
<b>*TNT Type I Flake (LB)</b> FY 2000	Stock Issue	N/A	N/A	N/A	N/A	92				
<b>M27 Fin Assembly</b> FY 2000	Wilkinson Mfg. Fort Calhoun, NE	C/FP	OSC, Rock Island, IL	Feb 2000	Oct 2000	240	5.65			
<b>M702 Ignition Cartridge</b> FY 2000	American Ordnance (MAAP) Milan, TN	SS/FP	OSC, Rock Island, IL	Jul 2000	Oct 2000	240	11.71			
<b>*M9 Flake .006 F/60MM (LB)</b> FY 2000	Stock Issue	N/A	N/A	N/A	N/A	2				
<b>*Nitrocellulose WW GR A (LB)</b>										

REMARKS: \*Government Furnished Material

# Exhibit P-5a, Budget Procurement History and Planning

Date:  
June 2001

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 M888 (E67304)

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 2000 <b>*M10 Flake .008 (LB)</b>	Stock Issue	N/A	N/A	N/A	N/A	8				
FY 2000 <b>LAP Chg Prop M204</b>	Stock Issue	N/A	N/A	N/A	N/A	18				
FY 2000 <b>Container Assy M204</b>	American Ordnance (MAAP) Milan, TN	SS/FP	OSC, Rock Island, IL	Jun 2000	Oct 2000	932	0.85			
FY 2000 <b>*M935 Fuze</b>	Armtec Defense Prod Coachella, CA	SS/FP	OSC, Rock Island, IL	Jan 2000	May 2000	932	2.26			
FY 2000 <b>*FZ MPTS M935</b>	Stock Issue	N/A	OSC, Rock Island, IL	N/A	N/A	238				
FY 2000 <b>*Comp A-5 Class 1 (LB)</b>	American Ordnance (MAAP) Milan, TN	SS/FP	OSC, Rock Island, IL	May 2000	Feb 2001	120	10.00			
FY 2000 <b>*RDX Type II Clas 3 (LB)</b>	Stock Issue	N/A	N/A	N/A	N/A	120		Y		
FY 2000 <b>*RDX Type II Clas 3 (LB)</b>	Stock Issue	N/A	N/A	N/A	N/A	7				

REMARKS: \*Government Furnished Material

# Exhibit P-5a, Budget Procurement History and Planning

Date:  
June 2001

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 M888 (E67304)

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 2000	Stock Issue	N/A	N/A	N/A	N/A					

REMARKS: \*Government Furnished Material







# Exhibit P-40, Budget Item Justification Sheet

Date:

June 2001

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							
Gross Cost	50.4	0.7		10.7	7.5							
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	50.4	0.7		10.7	7.5							
Initial Spares												
Total Proc Cost	50.4	0.7		10.7	7.5							
Flyaway U/C												
Wpn Sys Proc U/C												

**Description:**

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

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). This is triple the range of the ammunition it replaces. 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; Type Classified (TC) and have been approved for service use.

**Justification:**

The FY 2002 procurement meets the annual peacetime training requirements and builds a war reserve stockpile in support of fielded Mortar Weapons.

Type Classification date: Visible Light SEP 87; infrared TC Low Rate Procurement MAY 98, TC STD SEP 99

Acquisition Manager: PM MORTARS

<b>Exhibit P-5, Weapon AMMO Cost Analysis</b>		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: June 2001		
<b>AMMO Cost Elements</b>	ID CD	<b>FY 00</b>			<b>FY 01</b>			<b>FY 02</b>			<b>FY 03</b>		
		TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
		\$000	x1000	\$	\$000	x1000	\$	\$000	x1000	\$	\$000	x1000	\$
<b>AMMUNITION HARDWARE</b>													
Load, Assemble, and Pack M721/M767					2300	19	119	1510	12	121			
VL Illumination Cannister					829	10	83	544	6	84			
IR Illumination Cannister					1028	10	102	675	6	104			
Body Tube & Tail Cone					632	20	31	424	13	33			
Parachute					342	20	17	225	13	17			
Fuze, MTSQ, M776					2763	20	138	1814	13	140			
Ignition Cartridge M702					349	20	17	225	13	17			
Propelling Charge M235					500	79	6	329	51	6			
Fin Assembly M27					134	20	7	89	13	7			
<b>SubTotal AMMO Hardware</b>					<b>8877</b>			<b>5835</b>					
<b>Production Support Costs</b>													
Production Engineering					1156			1174					
Quality Assurance					250			254					
Acceptance Testing					290			169					
Interim Transportation					98			56					
<b>SubTotal Prod. Support</b>					<b>1794</b>			<b>1653</b>					
<b>Total</b>					<b>10671</b>		<b>553</b>	<b>7488</b>		<b>601</b>			

## Exhibit P-5a, Budget Procurement History and Planning

Date:  
June 2001

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
<b>Load, Assemble, and Pack M721/M767</b>										
FY 2001	Pine Bluff Arsenal Pine Bluff, AR	SS/CR	TACOM	Mar 01	Dec 02	19	119	YES	N/A	
FY 2002	Pine Bluff Arsenal Pine Bluff, AR	SS/CR	TACOM	Mar 02	Dec 03	12	121	YES	N/A	
<b>VL Illumination Cannister</b>										
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	84	YES	N/A	
<b>IR Illumination Cannister</b>										
FY 2001	Crane Army Ammunition Activity Crane IN	SS/CR	TACOM	Mar 01	Apr 02	10	102	YES	N/A	
FY 2002	Crane Army Ammunition Activity Crane IN	SS/CR	TACOM	Mar 02	Apr 03	6	104	YES	N/A	
<b>Body Tube &amp; Tail Cone</b>										
FY 2001	Lewis Engineering Marshall, TX	OPT	TACOM	Feb 01	Jan 02	20	31	YES	N/A	
FY 2002	Lewis Engineering Marshall, TX	OPT	TACOM	Feb 02	Jan 03	13	33	YES	N/A	
<b>Parachute</b>										
FY 2001	UNKNOWN	C/FP	TACOM	Jul 01	Aug 02	20	17	YES	N/A	
FY 2002	UNKNOWN	OPT	TACOM	Feb 02	Jan 03	13	17	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.  
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

## Exhibit P-5a, Budget Procurement History and Planning

Date:  
June 2001

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
<b>Fuze, MTSQ, M776</b>										
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	
<b>Ignition Cartridge M702</b>										
FY 2001	HiTech Inc Woodbury AR	OPT	TACOM	May 01	Jul 02	20	17	YES	N/A	
FY 2002	HiTech Inc Woodbury AR	OPT	TACOM	Feb 02	Apr 03	13	17	YES	N/A	
<b>Propelling Charge M235</b>										
FY 2001	Valentec Systems Inc. Mt. Arlington, NJ	OPT	TACOM	Feb 01	Mar 02	79	6	YES	N/A	
FY 2002	Valentec Systems Inc. Mt. Arlington, NJ	OPT	TACOM	Feb 02	Mar 03	51	6	YES	N/A	
<b>Fin Assembly M27</b>										
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.  
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







# Exhibit P-40, Budget Item Justification Sheet

Date:

June 2001

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

P-1 Item Nomenclature  
60MM MORTAR, FULL RANGE PRACTICE ROUND, XM769 (E92200)

Program Elements for Code B Items:  
64802/D613

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	49							
Gross Cost		1.0		2.9	7.5							
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)		1.0		2.9	7.5							
Initial Spares												
Total Proc Cost		1.0		2.9	7.5							
Flyaway U/C												
Wpn Sys Proc U/C												

**Description:**

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

The XM769 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 XM769 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 B, not yet approved for service use.

**Justification:**

This is a training-unique item; not used in combat. Use of the XM769 will reduce training costs and environmental impacts. FY 2002 procurement supports annual peacetime training requirements and builds toward authorized depot level for training unique ammunition.

Type Classification date: TC (STD) June 2001

Acquisition Manager: PM MORTARS

<b>Exhibit P-5, Weapon AMMO Cost Analysis</b>		Appropriation/Budget Activity/Serial No. Procurement of Ammunition, Army / 1 / AMMUNITION			P-1 Line Item Nomenclature: 60MM MORTAR, FULL RANGE PRACTICE ROUND, XM769 (E92200)			Weapon System Type:			Date: June 2001		
<b>AMMO Cost Elements</b>	ID CD	<b>FY 00</b>			<b>FY 01</b>			<b>FY 02</b>			<b>FY 03</b>		
		TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
		\$000	x1000	\$	\$000	x1000	\$	\$000	x1000	\$	\$000	x1000	\$
<b>AMMUNITION HARDWARE</b>													
Load, Assemble, and Pack					121	5	24	1203	49	25			
Shell Body					159	5	31	1593	51	31			
Fuze, Practice, M775					93	5	18	932	51	18			
Ignition Cartridge M702					90	5	17	880	51	17			
Propellant Charge M235					129	21	6	1290	200	6			
Fin Assembly M27					35	5	7	349	51	7			
<b>SubTotal AMMO Hardware</b>					<b>627</b>			<b>6247</b>					
<b>Production Support Costs</b>													
Production Engineering					576			702					
Quality Assurance					62			112					
Acceptance Testing					100			355					
Interim Transportation					34			119					
<b>SubTotal Prod. Support</b>					<b>772</b>			<b>1288</b>					
<b>COST - Nonrecurring</b>													
Initial Production Testing					1040								
Calibration Lot					502								
<b>SubTotal COST - Nonrecurring</b>					<b>1542</b>								
<b>Total</b>					<b>2941</b>		<b>588</b>	<b>7535</b>		<b>154</b>			

## Exhibit P-5a, Budget Procurement History and Planning

Date:  
June 2001

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, XM769 (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
<b>Load, Assemble, and Pack</b>										
FY 2001	UNKNOWN	C/FP	TACOM	Jun 01	Jun 03	5	24	NO	MAR 01	
FY 2002	UNKNOWN UNKNOWN	OPT	TACOM	Feb 02	Nov 03	49	25	NO	MAR 01	
<b>Shell Body</b>										
FY 2001	Medico Industries Scranton PA	OPT	TACOM	Apr 01	Apr 02	5	31	YES		
FY 2002	Medico Industries Scranton PA	OPT	TACOM	Feb 02	Feb 03	51	31	YES		
<b>Fuze, Practice, M775</b>										
FY 2001	UNKNOWN UNKNOWN	C/FP	TACOM	Jun 01	Aug 02	5	18	YES		
FY 2002	UNKNOWN UNKNOWN	OPT	TACOM	Feb 02	Feb 03	51	18	YES		
<b>Ignition Cartridge M702</b>										
FY 2001	HiTech Inc Woodbury AR	OPT	TACOM	Feb 01	Apr 02	5	17	YES		
FY 2002	HiTech Inc Woodbury AR	OPT	TACOM	Feb 02	Apr 03	51	17	YES		
<b>Propellant Charge M235</b>										
FY 2001	Valentec Systems Inc. Mt. Arlington, NJ	OPT	TACOM	Feb 01	Mar 02	21	6	YES		
FY 2002	Valentec Systems Inc. Mt. Arlington, NJ	OPT	TACOM	Feb 02	Mar 03	200	6	YES		

REMARKS: LAP for the M720A1, XM768 and XM769 will 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 Body 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:  
June 2001

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, XM769 (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
<b>Fin Assembly M27</b>										
FY 2001	Gayston Corp. Springboro, OH	OPT	TACOM	Feb 01	Jan 02	5	7	YES		
FY 2002	Gayston Corp. Springboro, OH	OPT	TACOM	Feb 02	Jan 03	51	7	YES		

REMARKS: LAP for the M720A1, XM768 and XM769 will 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 Body C/FP FY99; M702 Ignition Cartridge C/FP FY00; M235 Prop Charge C/FP FY98 ; M27 Fin Assembly M27 C/FP FY99







# Exhibit P-40, Budget Item Justification Sheet

Date:

June 2001

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

P-1 Item Nomenclature  
CTG,MORTAR,60MM HE W/PD FUZE, XM768 (E92900)

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				43	36							
Gross Cost			0.3	16.8	11.8							
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)			0.3	16.8	11.8							
Initial Spares												
Total Proc Cost			0.3	16.8	11.8							
Flyaway U/C												
Wpn Sys Proc U/C												

**Description:**

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

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 XM783 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 XM768 will be lethal and can be used in combat. This item is code B; not yet been approved for service use.

**Justification:**

FY 2002 procurement supports annual training requirements and establishes an initial training stockpile.

TYPE CLASSIFICATION DATE: June 2001

ACQUISITION MANAGER: PM Mortars

<b>Exhibit P-5, Weapon AMMO Cost Analysis</b>		Appropriation/Budget Activity/Serial No. Procurement of Ammunition, Army / 1 / AMMUNITION			P-1 Line Item Nomenclature: CTG,MORTAR,60MM HE W/PD FUZE,XM768 (E92900)			Weapon System Type:			Date: June 2001		
<b>AMMO Cost Elements</b>	ID CD	<b>FY 00</b>			<b>FY 01</b>			<b>FY 02</b>			<b>FY 03</b>		
		TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
		\$000	x1000	\$	\$000	x1000	\$	\$000	x1000	\$	\$000	x1000	\$
<b>AMMUNITION HARDWARE</b>													
Load, Assemble, and Pack					3776	43	88	3259	36	89			
Shell Body HF1					1974	45	44	1726	38	45			
Fuze, Point Detonating, XM783					4159	45	93	3590	38	95			
Ignition Cartridge M702					777	45	17	660	38	17			
Propellant Charge M235					1113	176	6	964	150	6			
Fin Assembly M27					299	45	7	261	38	7			
<b>SubTotal AMMO Hardware</b>					<b>12098</b>			<b>10460</b>					
<b>Production Support Costs</b>													
Production Engineering					1000			710					
Quality Assurance					200			205					
Acceptance Testing					358			345					
Interim Transportation					119			116					
<b>SubTotal Prod. Support</b>					<b>1677</b>			<b>1376</b>					
<b>COST - Nonrecurring</b>													
Initial Production Testing					1623								
Calibration Lot					1407								
PD/Delay Fuze - Materiel Change		300											
<b>SubTotal COST - Nonrecurring</b>		<b>300</b>			<b>3030</b>								
<b>Total</b>		<b>300</b>			<b>16805</b>			<b>11836</b>					

# Exhibit P-5a, Budget Procurement History and Planning

Date:  
June 2001

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, XM768 (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
<b>Load, Assemble, and Pack</b>										
FY 2001	UNKNOWN	C/FP	TACOM	Jun 01	Apr 03	43	88	NO	Mar 01	
FY 2002	UNKNOWN	OPT	TACOM	Feb02	Nov 03	36	89	NO	Mar 01	
<b>Shell Body HF1</b>										
FY 2001	Medico Industries Inc Scranton PA	OPT	TACOM	Mar 01	Apr 02	45	44	YES		
FY 2002	Medico Industries Inc Scranton PA	OPT	TACOM	Feb 02	Apr 03	38	45	YES		
<b>Fuze, Point Detonating, XM783</b>										
FY 2001	KDI Precision Products Inc Cincinnati, OH	SS/FP	TACOM	Jun 01	Jul 02	45	93	NO	Apr 01	
FY 2002	KDI Precision Products Inc Cincinnati, OH	OPT	TACOM	Feb 02	Apr 03	38	95	NO	Apr 01	
<b>Ignition Cartridge M702</b>										
FY 2001	HiTech Inc Woodbury AR	OPT	TACOM	Feb 01	Apr 02	45	17	YES		
FY 2002	HiTech Inc Woodbury AR	OPT	TACOM	Feb 02	Apr 03	38	17	YES		
<b>Propellant Charge M235</b>										
FY 2001	Valentec Systems Inc Mt. Arlington, NJ	OPT	TACOM	Feb 01	Mar 02	176	6	YES		
FY 2002	Valentec Systems Inc Mt. Arlington, NJ	OPT	TACOM	Feb 02	Mar 03	150	6	YES		

REMARKS: LAP for the M720A1, XM768 and XM769 will 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:  
June 2001

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,XM768 (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
<b>Fin Assembly M27</b>										
FY 2001	Gayston Corp. Springboro, OH	OPT	TACOM	Feb 01	Jan 02	45	7	YES		
FY 2002	Gayston Corp. Springboro, OH	OPT	TACOM	Feb 02	Jan 03	38	7	YES		

REMARKS: LAP for the M720A1, XM768 and XM769 will 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-40, Budget Item Justification Sheet

Date:

June 2001

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	113.4	9.3	5.2	0.9								
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	113.4	9.3	5.2	0.9								
Initial Spares												
Total Proc Cost	113.4	9.3	5.2	0.9								
Flyaway U/C												
Wpn Sys Proc U/C												

**Description:**

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

This includes 81mm Mortar Ammunition, all types. These rounds are fired from the 81mm Mortar System. Procurements support war reserve and training requirements.

<b>Exhibit P-5, Weapon AMMO Cost Analysis</b>		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: June 2001		
<b>AMMO Cost Elements</b>	ID CD	<b>FY 00</b>			<b>FY 01</b>			<b>FY 02</b>			<b>FY 03</b>		
		TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
		\$000	x1000	\$	\$000	x1000	\$	\$000	x1000	\$	\$000	x1000	\$
E19800 CTG MTR 81MM PRAC 1/10 RANGE M		2868	7	410	921	24	38						
E20200 CTG MTR 81MM SMOKE M375		734	36	20									
E76100 CTG MTR 81MM ILLUM M853A1													
E77500 REFURB KIT F/81MM PRAC M880													
E90000 CTG 81MM INFRARED (IR) ILLUM XM81		1600											
<b>Total</b>		<b>5202</b>			<b>921</b>								

# Exhibit P-40, Budget Item Justification Sheet

Date:

June 2001

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:

	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	50							
Gross Cost	115.5	36.8	48.8	47.6	39.5							
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	115.5	36.8	48.8	47.6	39.5							
Initial Spares												
Total Proc Cost	115.5	36.8	48.8	47.6	39.5							
Flyaway U/C												
Wpn Sys Proc U/C												

**Description:**

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

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 expands the lethal radius to 1.5 times that of the 4.2-in high explosive round it replaces. This item is code A; it has been approved for service use.

**Justification:**

The FY 2002 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 program funds a material change 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

<b>Exhibit P-5, Weapon AMMO Cost Analysis</b>		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: June 2001		
<b>AMMO Cost Elements</b>	ID CD	<b>FY 00</b>			<b>FY 01</b>			<b>FY 02</b>			<b>FY 03</b>		
		TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
		\$000	x1000	\$	\$000	x1000	\$	\$000	x1000	\$	\$000	x1000	\$
<b>HARDWARE</b>													
Load, Assemble, and Pack		9170	65	140	7953	65	121	6159	50	123			
Shell Body		9537	68	140	8535	68	125	6616	52	127			
Fuze, M734A1		16656	68	245	15327	68	225	11714	52	226			
Propellant Charge M234		3921	269	15	4369	269	16	3343	205	16			
Ignition Cartridge M1020		1831	68	27	1938	68	28	1618	52	31			
Fin Assembly M31		2162	68	32	2415	68	35	1730	52	33			
Fiber Container PA153		697	68	10	699	68	10	540	52	10			
Overpack Container PA154		1439	34	42	1512	34	44	1172	26	45			
<b>SubTotal AMMO Hardware</b>		<b>45413</b>			<b>42748</b>			<b>32892</b>					
<b>Production Support Costs</b>													
Production Engineering		890			937			953					
Quality Assurance		311			237			206					
Acceptance Testing		807			820			670					
PMO Support		592			2000			2034					
Interim Transportation		834			849			658					
<b>SubTotal Prod. Support</b>		<b>3434</b>			<b>4843</b>			<b>4521</b>					
<b>COST - Nonrecurring</b>													
Materiel Change - Insensitive Explosive								2123					
<b>SubTotal COST - Nonrecurring</b>								<b>2123</b>					
<b>Total</b>		<b>48847</b>			<b>47591</b>			<b>39536</b>					

## Exhibit P-5a, Budget Procurement History and Planning

Date:  
June 2001

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
<b>Load, Assemble, and Pack</b>										
FY 2000	SNC Technologies LeGardeur, PQ, Canada	OPT	TACOM	Feb 00	Nov 01	65	140	yes		
FY 2001	SNC Technologies LeGardeur, PQ, Canada	OPT	TACOM	Mar 01	Nov 02	65	121	yes		
FY 2002	SNC Technologies LeGardeur, PQ, Canada	OPT	TACOM	Feb 02	Nov 03	50	123	yes		
<b>Shell Body</b>										
FY 2000	Chamberlain Mfg Scranton PA	OPT	TACOM	Feb 00	Feb 01	68	140	yes		
FY 2001	UNKNOWN	C/FP/MYR	TACOM	Aug 01	Nov 02	68	125	yes		
FY 2002	UNKNOWN	MYR/OPT	TACOM	Feb 02	Apr 03	52	127	yes		
<b>Fuze, M734A1</b>										
FY 2000	KDI Cincinnati OH	OPT	TACOM	Feb 00	Feb 01	68	245	yes		
FY 2001	KDI Cincinnati OH	OPT	TACOM	Mar 01	Mar 02	68	225	yes		
FY 2002	KDI Cincinnati OH	OPT	TACOM	Feb 02	Feb 03	52	226	yes		
<b>Propellant Charge M234</b>										
FY 2000	HiTech East Camden AR	C/FP	TACOM	Jul 00	Oct 01	269	15	yes		
FY 2001	HiTech East Camden AR	OPT	TACOM	Mar 01	Mar 02	269	16	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

## Exhibit P-5a, Budget Procurement History and Planning

Date:  
June 2001

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 <b>Ignition Cartridge M1020</b>	HiTech East Camden AR	OPT	TACOM	Feb 02	Feb 03	205	16	yes		
FY 2000	Pocal Industries Moscow, PA	OPT	TACOM	Feb 00	Feb 02	68	27	yes		
FY 2001	Pocal Industries Moscow, PA	OPT	TACOM	Feb 01	Feb 02	68	28	yes		
FY 2002	Pocal Industries Moscow, PA	C/FP	TACOM	Feb 02	Feb 03	52	31	yes		
<b>Fin Assembly M31</b>										
FY 2000	Lockheed-Martin Naval Electron Archbald PA	C/FP	TACOM	Sep 00	Oct 01	68	32	yes		
FY 2001	Lockheed-Martin Naval Electron Archbald PA	OPT	TACOM	Mar 01	Feb 02	68	35	yes		
FY 2002	Lockheed-Martin Naval Electron Archbald PA	OPT	TACOM	Feb 02	Jan 03	52	33	yes		
<b>Fiber Container PA153</b>										
FY 2000	United Ammo Container Milan TN	OPT	TACOM	Feb 00	Aug 00	68	10	yes		
FY 2001	United Ammo Container Milan TN	OPT	TACOM	Feb 01	Aug 01	68	10	yes		
FY 2002	UNKNOWN	C/FP	TACOM	Apr 02	Nov 02	52	10	yes		
<b>Overpack Container PA154</b>										
FY 2000	Brockway Standard Atlanta GA	OPT	TACOM	Feb 00	Aug 00	34	42	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

## Exhibit P-5a, Budget Procurement History and Planning

Date:  
June 2001

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 2001	Brockway Standard Atlanta GA	OPT	TACOM	Feb 01	Aug 01	34	44	yes		
FY 2002	UNKNOWN	C/FP	TACOM	Apr 02	Nov 02	26	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







# Exhibit P-40, Budget Item Justification Sheet

Date:

June 2001

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

P-1 Item Nomenclature  
CTG MORTAR 120MM ILLUM XM930 W/MTSQ FZ (E25503)

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	24	2	4		2							
Gross Cost	35.1	5.0	11.4	5.0	3.5							
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	35.1	5.0	11.4	5.0	3.5							
Initial Spares												
Total Proc Cost	35.1	5.0	11.4	5.0	3.5							
Flyaway U/C												
Wpn Sys Proc U/C												

**Description:**

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

The XM930 Illumination Cartridge/ XM983 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. It consists of a two piece body filled with illuminating flare, M776 MTSQ fuze and tail assembly. It bursts over a target producing 1 million candlepower illumination, which is more intense and effective than the 4.2" round that it replaces. This rounds is range matched to the 120mm high explosive (HE) and smoke cartridges. This item is code B. It have not yet been approved for service use.

**Justification:**

The FY 2002 procurement builds war reserve inventory in accordance with the Army's procurement goals. This item is part of the total package fielding effort for the 120mm mortar system. This line will fund the XM930, visible light variant.

Type Classification: TCLP 3Q98, STD 2Q03

Acquisition Manager: PM Mortars

<b>Exhibit P-5, Weapon AMMO Cost Analysis</b>		Appropriation/Budget Activity/Serial No. Procurement of Ammunition, Army / 1 / AMMUNITION			P-1 Line Item Nomenclature: CTG MORTAR 120MM ILLUM XM930 W/MTSQ FZ (E25503)			Weapon System Type:			Date: June 2001		
<b>AMMO Cost Elements</b>	ID CD	<b>FY 00</b>			<b>FY 01</b>			<b>FY 02</b>			<b>FY 03</b>		
		TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
		\$000	x1000	\$	\$000	x1000	\$	\$000	x1000	\$	\$000	x1000	\$
<b>HARDWARE</b>													
Load, Assemble, and Pack		1288	4	368				710	2	381			
Shell Body		1085	4	298				553	2	286			
Visible Light Cannister		487	2	267				536	2	276			
Infrared Light Canister		557	2	306									
Parachute Assembly		174	4	48				96	2	49			
Fuze, MTSQ, M776		493	4	135				271	2	140			
Ignition Cartridge M1020		98	4	27				60	2	31			
Propellant Charge M234		210	14	15				125	8	16			
Fin Assembly M31		116	4	32				65	2	34			
Fiber Container PA153		37	4	10				20	2	10			
Metal Overpack PA154		77	2	42				44	1	45			
<b>SubTotal AMMO Hardware</b>		<b>4622</b>						<b>2480</b>					
<b>Production Support Costs</b>													
Production Engineering		750			900			706					
Quality Assurance		162			175			100					
Acceptance Testing		163						169					
Interim Transportation		121						66					
<b>SubTotal Prod. Support</b>		<b>1196</b>			<b>1075</b>			<b>1041</b>					
<b>Non-Recurring Costs</b>													
Corrective Action Program					3879								
Electronic Time Fuze - Mat'l Change		5567											
<b>Sub Total Non-Recurring</b>		<b>5567</b>			<b>3879</b>								
<b>Total</b>		<b>11385</b>		<b>1662</b>	<b>4954</b>			<b>3521</b>		<b>1888</b>			

## Exhibit P-5a, Budget Procurement History and Planning

Date:  
June 2001

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

Weapon System Type:

P-1 Line Item Nomenclature:  
CTG MORTAR 120MM ILLUM XM930 W/MTSQ FZ (E25503)

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
<b>Load, Assemble, and Pack</b>										
FY 2000	Pine Bluff Arsenal Pine Bluff AR	SS/CR	TACOM	Apr 00	Dec 01	4	368	yes		
FY 2002	Pine Bluff Arsenal Pine Bluff AR	SS/CR	TACOM	Mar 02	Dec 03	2	381	yes		
<b>Shell Body</b>										
FY 2000	Chamberlain Mfg Scranton PA	OPT	TACOM	Feb 00	Feb 01	4	298	yes		
FY 2002	UNKNOWN	MYR/OPT	TACOM	Feb 02	Jun 03	2	286	yes		
<b>Visable Light Cannister</b>										
FY 2000	Crane Army Ammunition Activity Crane IN	SS/CR	TACOM	Apr 00	Jun 01	2	267	yes		
FY 2002	Crane Army Ammunition Activity Crane IN	SS/CR	TACOM	Mar 02	May 03	2	276	yes		
<b>Infrared Light Canister</b>										
FY 2000	Crane Army Ammunition Activity Crane IN	SS/CR	TACOM	Apr 00	Jul 01	2	306	yes		
<b>Parachute Assembly</b>										
FY 2000	Mills Mfg Ashville NC	OPT	TACOM	Feb 00	Jan 01	4	48	yes		
FY 2002	UNKNOWN	OPT	TACOM	Feb 02	Jan 02	2	49	yes		
<b>Fuze, MTSQ, M776</b>										

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 -FY00 SS/FP FY96; FY02, C/FP/MYR FY01; Parachute FY00 C/FP FY98; FY02, C/FP FY01(Combined with parachutes for 60mm and 81mm); Ign Ctg C/FP FY98; PA153 Container C/FP FY99 ; PA154 Container C/FP FY98

## Exhibit P-5a, Budget Procurement History and Planning

Date:  
June 2001

Appropriation/Budget Activity/Serial No: Procurement of Ammunition, Army / 1 / AMMUNITION		Weapon System Type:			P-1 Line Item Nomenclature: CTG MORTAR 120MM ILLUM XM930 W/MTSQ FZ (E25503)					
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 2000	Diehl GMBH Schramberg GER	OPT	TACOM	Mar 00	Apr 01	4	135	yes		
FY 2002	Diehl GMBH Schramberg GER	OPT	TACOM	Mar 02	Apr 03	2	140	yes		
<b>Ignition Cartridge M1020</b>										
FY 2000	Pocal Industries Scranton PA	OPT	TACOM	Feb 00	Feb 01	4	27	yes		
FY 2002	Pocal Industries Scranton PA	OPT	TACOM	Feb 02	Feb 03	2	31	yes		
<b>Propellant Charge M234</b>										
FY 2000	HiTech East Camden AR	C/FP	TACOM	Jul 00	Oct 01	14	15	yes		
FY 2002	HiTech East Camden AR	OPT	TACOM	Feb 02	Feb 03	8	16	yes		
<b>Fin Assembly M31</b>										
FY 2000	Lockheed-Martin Naval Electron Archbald PA	C/FP	TACOM	Sep 00	Oct 01	4	32	yes		
FY 2002	Lockheed-Martin Naval Electron Archbald PA	OPT	TACOM	Feb 02	Jan 03	2	34	yes		
<b>Fiber Container PA153</b>										
FY 2000	United Ammo Container Milan TN	OPT	TACOM	Feb 00	Aug 00	4	10	yes		
FY 2002	UNKNOWN	C/FP	TACOM	Apr 02	Dec 02	2	10	yes		
<b>Metal Overpack PA154</b>										

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 -FY00 SS/FP FY96; FY02, C/FP/MYR FY01; Parachute FY00 C/FP FY98; FY02, C/FP FY01(Combined with parachutes for 60mm and 81mm); Ign Ctg C/FP FY98; PA153 Container C/FP FY99 ; PA154 Container C/FP FY98

## Exhibit P-5a, Budget Procurement History and Planning

Date:  
June 2001

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

Weapon System Type:

P-1 Line Item Nomenclature:  
CTG MORTAR 120MM ILLUM XM930 W/MTSQ FZ (E25503)

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 2000	Brockway Standard Altanta GA	OPT	TACOM	Feb 00	Aug 00	2	42	yes		
FY 2002	UNKNOWN	C/FP	TACOM	Apr 02	Dec 02	1	45	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 -FY00 SS/FP FY96; FY02, C/FP/MYR FY01; Parachute FY00 C/FP FY98; FY02, C/FP FY01(Combined with parachutes for 60mm and 81mm); Ign Ctg C/FP FY98; PA153 Container C/FP FY99 ; PA154 Container C/FP FY98







# Exhibit P-40, Budget Item Justification Sheet

Date:

June 2001

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							
Gross Cost			59.0	24.7	11.5							
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)			59.0	24.7	11.5							
Initial Spares												
Total Proc Cost			59.0	24.7	11.5							
Flyaway U/C												
Wpn Sys Proc U/C												

**Description:**

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

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; it has been type classified and approved for service use.

**Justification:**

FY 2002 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

<b>Exhibit P-5, Weapon AMMO Cost Analysis</b>		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: June 2001		
<b>AMMO Cost Elements</b>	ID CD	<b>FY 00</b>			<b>FY 01</b>			<b>FY 02</b>			<b>FY 03</b>		
		TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
		\$000	x1000	\$	\$000	x1000	\$	\$000	x1000	\$	\$000	x1000	\$
<b>AMMUNITION HARDWARE</b>													
Load, Assemble, and Pack		13565	64	214	3442	15	226	2563	11	230			
Shell Body		13612	66	206	3000	16	189	2234	12	192			
M86 Burster LAP		1929	66	29	395	16	25	304	12	26			
Burster Housing		1214	66	18	331	16	21	250	12	22			
Fuze, Multi-Option. M734A1		16148	66	245	3561	16	225	2620	12	0			
Ignition Cartridge M1020		1775	66	27	439	16	28	362	12	0			
Propellant Charge M234		3801	260	15	994	63	16	748	46	16			
Fin Assembly M31		2096	66	32	526	16	33	387	12	0			
Fiber Container PA153		676	66	10	162	16	10	121	12	10			
Metal Overpack PA154		1393	33	42	352	8	44	262	6	45			
<b>SubTotal AMMO Hardware</b>		<b>56209</b>			<b>13202</b>			<b>9851</b>					
<b>Production Support Costs</b>													
Production Engineering		1000			1018			1034					
Quality Assurance		310			315			321					
Acceptance Testing		693			291			190					
Interim Transportation		396			113			84					
<b>SubTotal Prod. Support</b>		<b>2399</b>			<b>1737</b>			<b>1629</b>					
<b>COST - Nonrecurring</b>													
Smoke Training Round Material Change					6800								
Ignition Cartridge Material Change					3000								
First Article Testing		426											
<b>SubTotal COST - Nonrecurring</b>		<b>426</b>			<b>9800</b>								
<b>Total</b>		<b>59034</b>		<b>922</b>	<b>24739</b>		<b>1622</b>	<b>11480</b>		<b>1028</b>			

## Exhibit P-5a, Budget Procurement History and Planning

Date:  
June 2001

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
<b>Load, Assemble, and Pack</b>										
FY 2000	Pine Bluff Arsenal Pine Bluff AR	SS/CR	TACOM	Apr 00	Mar 02	64	214	yes		
FY 2001	Pine Bluff Arsenal Pine Bluff AR	SS/CR	TACOM	Mar 01	Dec 02	15	226	yes		
FY 2002	Pine Bluff Arsenal Pine Bluff AR	SS/CR	TACOM	Mar 02	Dec 03	11	230	yes		
<b>Shell Body</b>										
FY 2000	Chamberlain Manufacturing Scranton PA	OPT	TACOM	Feb 00	Feb 01	66	206	yes		
FY 2001	UNKNOWN	C/FP/MYR	TACOM	Apr 01	May 02	16	189	yes		
FY 2002	UNKNOWN	MYR/OPT	TACOM	Feb 02	Feb 03	12	192	yes		
<b>M86 Burster LAP</b>										
FY 2000	American Ordnance Milan TN	C/FP	TACOM	Sep 00	Oct 01	66	29			
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	12	26	yes		
<b>Burster Housing</b>										
FY 2000	MaTech Hebron MD	C/FP	TACOM	Sep 00	Oct 01	66	18	yes		
FY 2001	MaTech Hebron MD	OPT	TACOM	May 01	Jun 02	16	21	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:  
June 2001

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 <b>Fuze, Multi-Option. M734A1</b>	MaTech Hebron MD	OPT	TACOM	Feb 02	Mar 03	12	22	yes		
FY 2000	KDI Cinciantti OH	OPT	TACOM	Feb 00	Feb 01	66	245	yes		
FY 2001	KDI Cinciantti OH	OPT	TACOM	Mar 01	Mar 02	16	225	yes		
FY 2002	KDI Cinciantti OH	OPT	TACOM	Feb 02	Feb 03	12	0	yes		
<b>Ignition Cartridge M1020</b>										
FY 2000	Pocal Industries Moscow PA	OPT	TACOM	Feb 00	Feb 01	66	27	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	12	0	yes		
<b>Propellant Charge M234</b>										
FY 2000	HiTech Camden AR	C/FP	TACOM	Jul 00	Oct 01	260	15	yes		
FY 2001	HiTech Camden AR	OPT	TACOM	Mar 01	Mar 02	63	16	yes		
FY 2002	HiTech Camden AR	OPT	TACOM	Feb 02	Feb 03	46	16	yes		
<b>Fin Assembly M31</b>										
FY 2000	Lockheed-Martin Naval Electron Archbald, PA	C/FP	TACOM	Sep 00	Oct 01	66	32	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:  
June 2001

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 2001	Lockheed-Martin Naval Electron Archbald, PA	OPT	TACOM	Mar 01	Feb 02	16	33	yes		
FY 2002	Lockheed-Martin Naval Electron Archbald, PA	OPT	TACOM	Feb 02	Jan 03	12	0	yes		
<b>Fiber Container PA153</b>										
FY 2000	United Ammo Container Milan TN	OPT	TACOM	Feb 00	Aug 00	66	10	yes		
FY 2001	United Ammo Container Milan TN	OPT	TACOM	Feb 01	Aug 01	16	10	yes		
FY 2002	UNKNOWN	C/FP	TACOM	Apr 02	Dec 02	12	10	yes		
<b>Metal Overpack PA154</b>										
FY 2000	Brockway Standard Atlanta GA	OPT	TACOM	Feb 00	Aug 00	33	42	yes		
FY 2001	Brockway Standard Atlanta GA	OPT	TACOM	Feb 01	Aug 01	8	44	yes		
FY 2002	UNKNOWN	C/FP	TACOM	Apr 02	Nov 02	6	45	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:

June 2001

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

P-1 Item Nomenclature  
CTG 120MM IR ILLUM XM983 (E91500)

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					2							
Gross Cost					3.5							
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)					3.5							
Initial Spares												
Total Proc Cost					3.5							
Flyaway U/C												
Wpn Sys Proc U/C												

**Description:**

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

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. It has been 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

<b>Exhibit P-5, Weapon AMMO Cost Analysis</b>		Appropriation/Budget Activity/Serial No. Procurement of Ammunition, Army / 1 / AMMUNITION			P-1 Line Item Nomenclature: CTG 120MM IR ILLUM XM983 (E91500)			Weapon System Type:			Date: June 2001		
<b>AMMO Cost Elements</b>	ID CD	<b>FY 00</b>			<b>FY 01</b>			<b>FY 02</b>			<b>FY 03</b>		
		TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
		\$000	x1000	\$	\$000	x1000	\$	\$000	x1000	\$	\$000	x1000	\$
<b>AMMUNITION HARDWARE</b>													
Load, Assemble, and Pack								691	2	381			
Shell Body								538	2	285			
Infrared Cannister								597	2	316			
Parachute Assembly								93	2	49			
Fuze, MTSQ, M776								264	2	140			
Ignition Cartridge M1020								59	2	31			
Propellant Charge M234								122	7	16			
Fin Assembly M31								63	2	33			
Fiber Container PA153								20	2	11			
Metal Container PA154								43		456			
<b>SubTotal AMMO Hardware</b>								<b>2490</b>					
<b>Production Support Costs</b>													
Production Engineering								700					
Quality Assurance								100					
Acceptance Testing								166					
Interim Transportation								65					
<b>SubTotal Prod. Support</b>								<b>1031</b>					
<b>Total</b>								<b>3521</b>		<b>1939</b>			

## Exhibit P-5a, Budget Procurement History and Planning

Date:  
June 2001

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

Weapon System Type:

P-1 Line Item Nomenclature:  
CTG 120MM IR ILLUM XM983 (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
<b>Load, Assemble, and Pack</b> FY 2002	PINE BLUFF ARSENAL Pine Bluff, AR	SS/CR	TACOM	Mar 02	Dec 03	2	381	yes		
<b>Shell Body</b> FY 2002	UNKNOWN	MYR/OPT	TACOM	Mar 02	Jun 03	2	285	yes		
<b>Infrared Cannister</b> FY 2002	CRANE AAA Crane, IN	SS/CR	TACOM	Mar 02	Jun 03	2	316	yes		
<b>Parachute Assembly</b> FY 2002	UNKNOWN	OPT	TACOM	Feb 02	Jan 03	2	49	yes		
<b>Fuze, MTSQ, M776</b> FY 2002	DIEHL GMBH Schramberg, GER	OPT	TACOM	Apr 02	May 03	2	140	yes		
<b>Ignition Cartridge M1020</b> FY 2002	POCAL INDUSTRIES Scranton, PA	OPT	TACOM	Feb 02	Feb 03	2	31	yes		
<b>Propellant Charge M234</b> FY 2002	HiTECH East Camden, AR	OPT	TACOM	Feb 02	Feb 03	7	16	yes		
<b>Fin Assembly M31</b>										

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:  
June 2001

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

Weapon System Type:

P-1 Line Item Nomenclature:  
CTG 120MM IR ILLUM XM983 (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
FY 2002 <b>Fiber Container PA153</b>	Lockheed-Martin Naval Electron Archbald PA	OPT	TACOM	Feb 02	Jan 03	2	33	yes		
FY 2002 <b>Metal Container PA154</b>	UNKNOWN	C/FP	TACOM	Apr 02	Dec 02	2	11	yes		
FY 2002	UNKNOWN	C/FP	TACOM	Apr 02	Dec 02		456	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:

June 2001

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

P-1 Item Nomenclature  
CTG, 105MM, HEP-T, W/FUZE F/TANK M393 (E24300)

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	1415				1							
Gross Cost	97.5				6.0							
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	97.5				6.0							
Initial Spares												
Total Proc Cost	97.5				6.0							
Flyaway U/C												
Wpn Sys Proc U/C												

**Description:**

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

The 105mm High Explosive Cartridge w/Tracer and Fuze (HE-Tw/Fuze) will replace the current and aged stockpile of M393A2 High Explosive Plastic (HEP) 105mm Tank ammunition cartridges. This high explosive cartridge will be fired from the 105mm main armament of 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 fuze and insensitive munitions requirements. While a variety of contractor developed solutions are possible, a metal cartridge case, granular propellant, electrically initiated primer, high explosive projectile, and impact initiating fuze will be utilized to meet ammunition interface requirements for the MGS.

**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 defeat a standard infantry bunker and create an opening in a double reinforced concrete wall through which infantry can pass. The 105mm High Explosive Cartridge with Tracer and Fuze will be the ammunition cartridge to achieve this KPP.

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

<b>Exhibit P-5, Weapon AMMO Cost Analysis</b>		Appropriation/Budget Activity/Serial No. Procurement of Ammunition, Army / 1 / AMMUNITION			P-1 Line Item Nomenclature: CTG, 105MM, HEP-T, W/FUZE F/TANK M393 (E24300)			Weapon System Type:			Date: June 2001		
<b>AMMO Cost Elements</b>	ID CD	<b>FY 00</b>			<b>FY 01</b>			<b>FY 02</b>			<b>FY 03</b>		
		TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
		\$000	x1000	\$	\$000	x1000	\$	\$000	x1000	\$	\$000	x1000	\$
<b>AMMUNITION HARDWARE</b>													
Complete Round								2636	1	6590			
<b>SubTotal AMMO Hardware</b>								<b>2636</b>					
<b>Production Support Costs</b>													
Production Engineering								950					
Quality Assurance								450					
Acceptance Testing								1500					
<b>SubTotal Prod. Support</b>								<b>2900</b>					
<b>COST - Nonrecurring</b>													
First Article Testing								500					
<b>Sub Total Non-Recurring</b>								<b>500</b>					
<b>Total</b>								<b>6036</b>					

# Exhibit P-5a, Budget Procurement History and Planning

Date:  
June 2001

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

Weapon System Type:

P-1 Line Item Nomenclature:  
CTG, 105MM, HEP-T, W/FUZE F/TANK M393 (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
<b>Complete Round</b> FY 2002	TBS	C/FP	ARDEC	Mar-02	July-03	1	6590	No	Dec-02	

REMARKS:





# Exhibit P-40, Budget Item Justification Sheet

Date:

June 2001

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

P-1 Item Nomenclature  
CTG 120MM APFSDS-T M829A2/M829E3 (E78001)

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	126	3	7		5							
Gross Cost	1423.0	14.6	31.4		35.6							
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	1423.0	14.6	31.4		35.6							
Initial Spares												
Total Proc Cost	1423.0	14.6	31.4		35.6							
Flyaway U/C												
Wpn Sys Proc U/C												

**Description:**

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

The 120MM M829E3 Armor Piercing, Fin Stabilized, Discarding Sabot with Tracer (APFSDS-T) cartridge is the follow-on to the M829A2 (APFSDS-T), 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, a combustible cartridge case and 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 transition path of the Transformation Campaign Plan (TCP).

**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 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 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 initial production approval is scheduled for 1QFY02 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 effective anti-armor tank cartridge in production. The Army has no requirement to procure the M829A2 in FY01 as it will have fulfilled the War Reserve Requirement with the completion of the FY00 procurement.

**Exhibit P-40C, Budget Item Justification Sheet**

Date:

June 2001

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

P-1 Item Nomenclature

CTG 120MM APFSDS-T M829A2/M829E3 (E78001)

Program Elements for Code B Items:

Code:

Other Related Program Elements:

Additionally, there will be no industrial base issues requiring the procurement of M829A2's in FY01, as the Army has developed a plan to bridge a potential DU production gap between the A2 and E3 cartridges by procuring 25mm M919 DU penetrators and the R&D quantities of the M829E3 penetrators.

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

<b>Exhibit P-5, Weapon AMMO Cost Analysis</b>		Appropriation/Budget Activity/Serial No. Procurement of Ammunition, Army / 1 / AMMUNITION			P-1 Line Item Nomenclature: CTG 120MM APFSDS-T M829A2/M829E3 (E78001)			Weapon System Type:			Date: June 2001		
<b>AMMO Cost Elements</b>	ID CD	<b>FY 00</b>			<b>FY 01</b>			<b>FY 02</b>			<b>FY 03</b>		
		TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
		\$000	x1000	\$	\$000	x1000	\$	\$000	x1000	\$	\$000	x1000	\$
<b>AMMUNITION HARDWARE</b>													
Complete Round		28181	7	4026				28230	5	5646			
<b>SubTotal AMMO Hardware</b>		<b>28181</b>						<b>28230</b>					
<b>Production Support Costs</b>													
Production Engineering		1506						2611					
Quality Assurance		450						750					
Acceptance Testing		750						2220					
<b>SubTotal Prod. Support</b>		<b>2706</b>						<b>5581</b>					
<b>COST - Nonrecurring</b>													
Program Closeout		500											
First Article								785					
Value Engineering/ECP'S								1000					
<b>SubTotal COST - Nonrecurring</b>		<b>500</b>						<b>1785</b>					
<b>Total</b>		<b>31387</b>						<b>35596</b>					

### Exhibit P-5a, Budget Procurement History and Planning

Date:  
June 2001

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

Weapon System Type:

P-1 Line Item Nomenclature:  
CTG 120MM APFSDS-T M829A2/M829E3 (E78001)

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
<b>Complete Round</b>										
FY 2000	Primex Technologies St. Peterburg, FL (M829A2)	SS/FP	ARDEC	Apr-00	Mar-01	7	4026	Yes	No	
FY 2002	Alliant Techsystems Minneapolis, MN (M829E3)	SS/FP	ARDEC	Jan-02	Oct-02	5	5646	Yes	No	

REMARKS: FY00 is the final year of production for the M829A2 Cartridge.  
FY02 starts the initial production for the M829E3 Cartridge.







# Exhibit P-40, Budget Item Justification Sheet

Date:

June 2001

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

P-1 Item Nomenclature  
CTG 120MM HEAT-MP-T M830A1 (E78007)

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	77	2	2									
Gross Cost	522.5	10.9	17.2									
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	522.5	10.9	17.2									
Initial Spares												
Total Proc Cost	522.5	10.9	17.2									
Flyaway U/C												
Wpn Sys Proc U/C												

**Description:**

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

The 120mm M830A1 High Explosive Anti-Tank, Multi-Purpose w/Tracer,(HEAT-MP-T) cartridge is designed for use against light armor, buildings and bunkers, as well as providing self-defense capability against attack helicopters. The lethal mechanism includes a shaped-charged warhead and blast effect. This round is fired from the M256 120MM smooth-bore cannon mounted on the Abrams tank. Additionally, the M830A1 is effective against the side and rear aspects of tanks and dismounted anti-tank and automatic weapon teams (targets not suitable to kinetic energy penetrator cartridges). The fixed round utilizes a combustible cartridge case affixed to a steel stub base and loaded with granular propellant. The fin-stabilized, high chrome alloy steel projectile body contains press-loaded high explosive and a precision copper liner. The fuze is armed during launch and initiated by an impact switch or proximity sensor, depending upon the operational mode selected by the ammo loader. This item is code A, approved for service use.

**Justification:**

Procurement of the M830A1 adheres to the Army's Transformation Campaign Plan and Modernization Strategy by maintaining the Abrams Main Battle Tank as an effective and lethal battlefield direct fire assault vehicle. The Abrams' 120mm gun will remain in the bulk of the tank inventory for at least the next 25 years. The M830A1 ammunition is essential in maintaining battlefield overmatch capabilities of the Abrams Tank. This procurement builds war reserve inventory in accordance with the Army's procurement goal. The production and fielding of the M830A1 provides increased velocity, accuracy, and reduced time in flight when compared to the previous M830 HEAT-T cartridge. Additionally, with the fielding of this cartridge, the individual tank crew now has a credible self-defense capability to engage and defeat attacking helicopter platforms.

TYPE CLASSIFICATION: September 1992

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

<b>Exhibit P-5, Weapon AMMO Cost Analysis</b>		Appropriation/Budget Activity/Serial No. Procurement of Ammunition, Army / 1 / AMMUNITION			P-1 Line Item Nomenclature: CTG 120MM HEAT-MP-T M830A1 (E78007)			Weapon System Type:			Date: June 2001		
<b>AMMO Cost Elements</b>	ID CD	<b>FY 00</b>			<b>FY 01</b>			<b>FY 02</b>			<b>FY 03</b>		
		TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
		\$000	x1000	\$	\$000	x1000	\$	\$000	x1000	\$	\$000	x1000	\$
<b>AMMUNITION HARDWARE</b>													
Complete Round		10067	2	4143									
<b>SubTotal AMMO Hardware</b>		<b>10067</b>											
<b>Production Support Costs</b>													
Production Engineering		2775											
Quality Assurance		776											
Acceptance Testing		595											
<b>SubTotal Prod. Support</b>		<b>4146</b>											
<b>Cost - Nonrecurring</b>													
XM908 Conversion		2528											
Program closeout		500											
<b>SubTotal COST - Nonrecurring</b>		<b>3028</b>											
<b>Total</b>		<b>17241</b>											

## Exhibit P-5a, Budget Procurement History and Planning

Date:  
June 2001

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

Weapon System Type:

P-1 Line Item Nomenclature:  
CTG 120MM HEAT-MP-T M830A1 (E78007)

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
<b>Complete Round</b> FY 2000	Alliant Techsystem Minneapolis, MN	SS/FP	ARDEC	June-00	Aug-01	2	4143	yes	no	no

REMARKS:



# Exhibit P-40, Budget Item Justification Sheet

Date:

June 2001

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:

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	105	57	87	86							
Gross Cost	672.5	57.8	35.2	48.0	46.2							
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	672.5	57.8	35.2	48.0	46.2							
Initial Spares												
Total Proc Cost	672.5	57.8	35.2	48.0	46.2							
Flyaway U/C												
Wpn Sys Proc U/C												

**Description:**

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

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 2002 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

<b>Exhibit P-5, Weapon AMMO Cost Analysis</b>		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: June 2001		
<b>AMMO Cost Elements</b>	ID CD	<b>FY 00</b>			<b>FY 01</b>			<b>FY 02</b>			<b>FY 03</b>		
		TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
		\$000	x1000	\$	\$000	x1000	\$	\$000	x1000	\$	\$000	x1000	\$
<b>AMMUNITION HARDWARE</b>													
Complete Round		29530	57	518.07	45072	87	518.07	45138	86	524.86			
<b>SubTotal AMMO Hardware</b>		<b>29530</b>			<b>45072</b>			<b>45138</b>					
<b>Production Support Costs</b>													
Production Engineering		4723			2424			1062					
Quality Assurance		52			35								
Acceptance Testing		903			502								
<b>SubTotal Prod. Support</b>		<b>5678</b>			<b>2961</b>			<b>1062</b>					
<b>Total</b>		<b>35208</b>		<b>617.68</b>	<b>48033</b>		<b>552.10</b>	<b>46200</b>		<b>537.21</b>			

## Exhibit P-5a, Budget Procurement History and Planning

Date:  
June 2001

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
<b>Complete Round</b>										
FY 2000 #	Alliant Tech Sys, Inc New Brighton, MN	CM-2/FP	OSC	Jan 2000	Dec 2000	22	491.48			
FY 2000 #	Primex Tech St. Petersburg, FL	CM-2/FP	OSC	Jan 2000	Jan 2001	35	491.18			
FY 2001 #	Alliant Tech Sys, Inc New Brighton, MN	CM-3/FP	OSC	Jan 2001	Dec 2001	44	499.99	Y		
FY 2001 #	Primex Tech St. Petersburg, FL	CM-3/FP	OSC	Feb 2001	Jan 2002	43	499.99	Y		
FY 2002	TBS	CM-4/FP	OSC	Jan 2002	Oct 2002	86	524.86	Y		

REMARKS: TBS - To Be Selected  
# Actual contract price for Multiple Producers





# Exhibit P-40, Budget Item Justification Sheet

Date:

June 2001

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:

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	240	140	199	198							
Gross Cost	1342.1	122.2	80.6	100.6	97.5							
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	1342.1	122.2	80.6	100.6	97.5							
Initial Spares												
Total Proc Cost	1342.1	122.2	80.6	100.6	97.5							
Flyaway U/C												
Wpn Sys Proc U/C												

**Description:**

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

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 2002 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

<b>Exhibit P-5, Weapon AMMO Cost Analysis</b>		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: June 2001		
<b>AMMO Cost Elements</b>	ID CD	<b>FY 00</b>			<b>FY 01</b>			<b>FY 02</b>			<b>FY 03</b>		
		TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
		\$000	x1000	\$	\$000	x1000	\$	\$000	x1000	\$	\$000	x1000	\$
<b>AMMUNITION HARDWARE</b>													
Complete Round		68698	140	490.70	97649	199	490.70	97487	198	492.36			
<b>SubTotal AMMO Hardware</b>		<b>68698</b>			<b>97649</b>			<b>97487</b>					
<b>Production Support Costs</b>													
Production Engineering		10764			2056								
Quality Assurance		81			50								
Acceptance Testing		1070			825								
<b>SubTotal Prod. Support</b>		<b>11915</b>			<b>2931</b>								
<b>Total</b>		<b>80613</b>		<b>575.81</b>	<b>100580</b>		<b>505.43</b>	<b>97487</b>		<b>492.36</b>			

## Exhibit P-5a, Budget Procurement History and Planning

Date:  
June 2001

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
<b>Complete Round</b>										
FY 2000 #	Alliant Tech New Brighton, MN	CM-2/FP	OSC	Jan 2000	Nov 2000	55	468.31			
FY 2000 #	Primex Tech St. Petersburg, FL	CM-2/FP	OSC	Jan 2000	Oct 2000	85	468.03			
FY 2001 #	Alliant Tech New Brighton, MN	CM-3/FP	OSC	Jan 2001	Oct 2001	99	472.62	Y		
FY 2001 #	Primex Tech St. Petersburg, FL	CM-3/FP	OSC	Feb 2001	Nov 2001	100	472.62	Y		
FY 2002	TBS	CM-4/FP	OSC	Jan 2002	Oct 2002	198	492.36	Y		

REMARKS: TBS - To Be Selected  
# Actual contract price for multiple producers.





# Exhibit P-40, Budget Item Justification Sheet

Date:

June 2001

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:

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	34	62	40	38							
Gross Cost	16.6	1.4	2.5	1.8	1.8							
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	16.6	1.4	2.5	1.8	1.8							
Initial Spares												
Total Proc Cost	16.6	1.4	2.5	1.8	1.8							
Flyaway U/C												
Wpn Sys Proc U/C												

**Description:**

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

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 2002 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:

June 2001

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

P-1 Item Nomenclature  
CTG ARTY 105MM BLANK M395 (E21200)

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	284		121									
Gross Cost	6.8		6.5									
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	6.8		6.5									
Initial Spares												
Total Proc Cost	6.8		6.5									
Flyaway U/C												
Wpn Sys Proc U/C												

**Description:**

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

The cartridge 105MM Blank M395 consists of a short cartridge containing a black powder and primer. The cartridge case is either brass, steel, or aluminum. The round weighs 6.0 lbs and is fired from the M101, M101A1, M102, and M119 howitzers. This cartridge is used to support training exercises, retreat ceremonies, VIP salutes, and burial ceremonies. This item is Code A, approved for service use.

**Justification:**

This is a training unique item; not used in combat. Procurement supports annual training and builds toward a 200 day depot level, supporting authorized retention quantity for use upon the death of past Presidents.

TYPE CLASSIFICATION: 1962

ACQUISITION MANAGER: OSC, Rock Island, Ill

<b>Exhibit P-5, Weapon AMMO Cost Analysis</b>		Appropriation/Budget Activity/Serial No. Procurement of Ammunition, Army / 1 / AMMUNITION			P-1 Line Item Nomenclature: CTG ARTY 105MM BLANK M395 (E21200)			Weapon System Type:			Date: June 2001		
<b>AMMO Cost Elements</b>	ID CD	<b>FY 00</b>			<b>FY 01</b>			<b>FY 02</b>			<b>FY 03</b>		
		TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
		\$000	x1000	\$	\$000	x1000	\$	\$000	x1000	\$	\$000	x1000	\$
<b>AMMUNITION HARDWARE</b>													
Load, Assemble, and Pack		6196	121	51.36									
Primer Perc M61		88	142	0.62									
<b>SubTotal AMMO Hardware</b>		<b>6284</b>											
<b>Production Support Costs</b>													
Production Engineering		119											
Quality Assurance		44											
Interim Transportation		2											
Industrial Stock Support		91											
<b>SubTotal Prod. Support</b>		<b>256</b>											
<b>Total</b>		<b>6540</b>		<b>54.21</b>									

## Exhibit P-5a, Budget Procurement History and Planning

Date:  
June 2001

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

Weapon System Type:

P-1 Line Item Nomenclature:  
CTG ARTY 105MM BLANK M395 (E21200)

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
<b>Load, Assemble, and Pack</b> FY 2000	American Ordnance (IAAP) Middletown, IA	SS/FP	OSC, Rock Island, IL	Mar 2000	Jun 2001	121	51.36			
<b>Primer Perc M61</b> FY 2000	TBS	C/FP	OSC, Rock Island, IL	May 2001	May 2001	142	0.62			

REMARKS: TBS - To Be Selected  
Contract awarded as a total system buy less percussion primer.



# Exhibit P-40, Budget Item Justification Sheet

Date:

June 2001

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

P-1 Item Nomenclature  
CTG ARTY 105MM DPICM XM915 (E53500)

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	9		3									
Gross Cost	22.4		12.4	6.9								
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	22.4		12.4	6.9								
Initial Spares												
Total Proc Cost	22.4		12.4	6.9								
Flyaway U/C												
Wpn Sys Proc U/C												

**Description:**

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

The 105mm Dual Purpose Improved Conventional Munition (DPICM) is the extended range round for the M119A1 Howitzer. This cartridge incorporates the M200 propelling charge whose projectiles contain a sub-munition payload of 42 dual purpose M80 grenades. The projectiles utilize a one-piece, all-steel body/ogive assembly which is scalloped to contain the cargo without additional ancilliary hardware (keys, splines, spacers, etc.). Projectile functioning is the same as the 155mm Improved Conventional Munition (ICM) round, the M483A1. 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.

**Justification:**

Procurement supports the acquisition of a more lethal artillery round and provides "deep strike" round capability for the Light Infantry Division (LID). It increases sustainability of the LID on the battlefield. It replaces the 105mm Anti-Personnel Improved Conventional Munition (APICM) M444 round. The self-destruct fuze with submunition should reduce the problem of any unexploded submunitions. Procurement builds war reserve stockpiles in support of the Army's procurement goal. This item is code A, approved for limited service use.

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

Acquisition Manager: PM ARMS

<b>Exhibit P-5, Weapon AMMO Cost Analysis</b>		Appropriation/Budget Activity/Serial No. Procurement of Ammunition, Army / 1 / AMMUNITION			P-1 Line Item Nomenclature: CTG ARTY 105MM DPICM XM915 (E53500)			Weapon System Type:			Date: June 2001		
<b>AMMO Cost Elements</b>	ID CD	<b>FY 00</b>			<b>FY 01</b>			<b>FY 02</b>			<b>FY 03</b>		
		TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
		\$000	x1000	\$	\$000	x1000	\$	\$000	x1000	\$	\$000	x1000	\$
<b>AMMUNITION HARDWARE</b>													
Load, Assemble, and Pack	B	574	3	0.19									
Projectile Metal Parts		951	3	0.32									
Grenade Body Assembly		445	98	0.50									
Fuzes, XM234 Grenade Self Destruct		1850	101	0.18									
Ctg Case XM217		122	3	0.41									
Container PA117/PA112		225	3	0.08									
Other Hardware		224	3	0.75									
<b>SubTotal AMMO Hardware</b>		<b>4391</b>											
<b>Production Support Costs</b>													
Production Engineering		513			1385								
<b>SubTotal Prod. Support</b>		<b>513</b>			<b>1385</b>								
<b>COST - Nonrecurring</b>													
High Rate Equipment		7500			2500								
Layaway					450								
Contracts Restructure					2001								
Restart					600								
<b>SubTotal COST - Nonrecurring</b>		<b>7500</b>			<b>5551</b>								
<b>Total</b>		<b>12404</b>		<b>3468.00</b>	<b>6936</b>								

## Exhibit P-5a, Budget Procurement History and Planning

Date:  
June 2001

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

Weapon System Type:

P-1 Line Item Nomenclature:  
CTG ARTY 105MM DPICM XM915 (E53500)

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
<b>Load, Assemble, and Pack</b> FY 2000	Day & Zimmerman, Inc	SS/CPFF	OSC	Nov 00	Apr 04	3	0.19	Yes		
<b>Projectile Metal Parts</b> FY 2000	Chamberlain Mfg Scranton, PA	SS/FP	TACOM-ARDEC	Sep 00	Jun 01	3	0.32	Yes		
<b>Grenade Body Assembly</b> FY 2000	Amron Corporation	SS/FP	TACOM-ARDEC	Sep 00	Mar 01	98	0.50	Yes		
<b>Fuzes, XM234 Grenade Self Destruct</b> FY 2000	KDI Precision Products Cincinnati, OH	SS/FP	TACOM-ARDEC	Nov 00	Jan 04	101	0.18	No	Jun 01	
<b>Ctg Case XM217</b> FY 2000	SNC	SS/FP	TACOM-ARDEC	Sep 00	Feb 01	3	0.41	Yes		
<b>Container PA117/PA112</b> FY 2000	Various	C/FP	TACOM-ARDEC	Apr 00	Feb 01	3	0.08	Yes		

REMARKS:



# Exhibit P-40, Budget Item Justification Sheet

Date:

June 2001

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		7		4								
Gross Cost		5.0	0.3	3.0	0.0							
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)		5.0	0.3	3.0	0.0							
Initial Spares												
Total Proc Cost		5.0	0.3	3.0	0.0							
Flyaway U/C												
Wpn Sys Proc U/C												

**Description:**

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

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.

**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:

June 2001

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:

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							
Gross Cost	255.1		7.7	0.1	5.0							
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	255.1		7.7	0.1	5.0							
Initial Spares												
Total Proc Cost	255.1		7.7	0.1	5.0							
Flyaway U/C												
Wpn Sys Proc U/C												

**Description:**

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

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 2002 procurement supports annual peacetime training and build a depot level in accordance with the Army's procurement goals.

TYPE CLASSIFICATION DATE: 1QFY70

ACQUISITION MANAGER: OSC, Rock Island, Ill

<b>Exhibit P-5, Weapon AMMO Cost Analysis</b>		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: June 2001		
<b>AMMO Cost Elements</b>	ID CD	<b>FY 00</b>			<b>FY 01</b>			<b>FY 02</b>			<b>FY 03</b>		
		TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
		\$000	x1000	\$	\$000	x1000	\$	\$000	x1000	\$	\$000	x1000	\$
<b>AMMUNITION HARDWARE</b>													
Load, Assemble, and Pack		6118	11	537.17				3066	6	483.62			
Proj 105 M314A2E1		1234	12	106.21				933	6	144.25			
*Ctg Case Steel M14B4		149	12	12.82				84	6	13.03			
Charge Prop								202	6	31.24			
*Charge Prop		114	12	9.83									
*Prop M1 SP (LB)		65	7	8.76				39	4	9.44			
*Prop M1 MP (LB)		106	25	4.17				65	14	4.57			
Primer 28B2								325	13	25.00			
*Primer 28B2		63	23	2.79									
*Fuze Artillery Mech Time M577								245	6	38.71			
*Fuze Artillery Elec Time M762		919	11	80.71									
Container Fiber M105A3		169	12	14.53									
<b>SubTotal AMMO Hardware</b>		<b>8937</b>						<b>4959</b>					
<b>Production Support Costs</b>													
Production Engineering						125		454					
Quality Assurance		4				3		13					
Interim Transportation		68						3					
Industrial Stock Support		130						41					
<b>SubTotal Prod. Support</b>		<b>202</b>				<b>128</b>		<b>511</b>					
<b>COST - Nonrecurring</b>													
Government Furnished Material		-1416						-433					
<b>SubTotal COST - Nonrecurring</b>													
<b>Total</b>		<b>7723</b>		<b>678.05</b>		<b>128</b>		<b>5037</b>		<b>794.40</b>			

# Exhibit P-5a, Budget Procurement History and Planning

Date:  
June 2001

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
<b>Load, Assemble, and Pack</b>										
FY 2000	TBS	C/FP	OSC, Rock Island, IL	Aug 2001	Aug 2002	11	537.17			
FY 2002	TBS	C/FP	OSC, Rock Island, IL	Mar 2002	May 2003	6	483.62	Y		
<b>Proj 105 M314A2E1</b>										
FY 2000	TBS	C/FP	OSC, Rock Island, IL	Jul 2001	Jul 2002	12	106.21			
FY 2002	TBS	C/FP	OSC, Rock Island, IL	Mar 2002	Mar 2003	6	144.25	Y		
<b>*Ctg Case Steel M14B4</b>										
FY 2000	Stock Issue	N/A	N/A	N/A	N/A	12				
FY 2002	Stock Issue	N/A	N/A	N/A	N/A	6				
<b>*Charge Prop</b>										
FY 2000	Stock Issue	N/A	N/A	N/A	N/A	12				
FY 2002	TBS	C/FP	OSC, Rock Island, IL	Mar 2002	Feb 2003	6	31.24			
<b>*Prop M1 SP (LB)</b>										
FY 2000	Stock Issue	N/A	N/A	N/A	N/A	7				
FY 2002	Stock Issue	N/A	N/A	N/A	N/A	4				

REMARKS: TBS - To Be Selected  
\*Government Furnished Material

# Exhibit P-5a, Budget Procurement History and Planning

Date:  
June 2001

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
<b>*Prop M1 MP (LB)</b>										
FY 2000	Stock Issue	N/A	N/A	N/A	N/A	25				
FY 2002	Stock Issue	N/A	N/A	N/A	N/A	14				
<b>*Primer 28B2</b>										
FY 2000	Stock Issue	N/A	N/A	N/A	N/A	23				
FY 2002	TBS	C/FP	OSC, Rock Island, IL	Mar 2002	Feb 2003	13	25.86	Y		
<b>*Fuze Artillery Mech Time M577</b>										
FY 2002	Stock Issue	N/A	N/A	N/A	N/A	6				
<b>*Fuze Artillery Elec Time M762</b>										
FY 2000	Stock Issue	N/A	N/A	N/A	N/A	11				
<b>Container Fiber M105A3</b>										
FY 2000	TBS	C/FP	OSC, Rock Island, IL	Jun 2001	Apr 2002	12	14.53			

REMARKS: TBS - To Be Selected  
\*Government Furnished Material





# Exhibit P-40, Budget Item Justification Sheet

Date:

June 2001

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:

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											
Gross Cost	218.3		10.3	14.5								
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	218.3		10.3	14.5								
Initial Spares												
Total Proc Cost	218.3		10.3	14.5								
Flyaway U/C												
Wpn Sys Proc U/C												

**Description:**

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

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:

June 2001

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:

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									
Gross Cost	179.8		9.8									
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	179.8		9.8									
Initial Spares												
Total Proc Cost	179.8		9.8									
Flyaway U/C												
Wpn Sys Proc U/C												

**Description:**

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

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

<b>Exhibit P-5, Weapon AMMO Cost Analysis</b>		Appropriation/Budget Activity/Serial No. Procurement of Ammunition, Army / 1 / AMMUNITION			P-1 Line Item Nomenclature: PROJ ARTY 155MM HE M795 (E66800)			Weapon System Type:			Date: June 2001		
<b>AMMO Cost Elements</b>	ID CD	<b>FY 00</b>			<b>FY 01</b>			<b>FY 02</b>			<b>FY 03</b>		
		TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
		\$000	x1000	\$	\$000	x1000	\$	\$000	x1000	\$	\$000	x1000	\$
<b>AMMUNITION HARDWARE</b>													
Load, Assemble, and Pack		2310	20	116									
Metal Parts		4291	21	207									
Metal Pallets		425	3	163									
Lifting Plugs		146	21	7									
<b>SubTotal AMMO Hardware</b>		<b>7172</b>											
<b>Production Support Costs</b>													
Production Engineering		1881											
Quality Assurance		80											
Acceptance Testing		650											
<b>SubTotal Prod. Support</b>		<b>2611</b>											
<b>COST - Nonrecurring</b>													
First Article Testing													
Value Engineering													
Product Improvement													
Government Furnished Material													
<b>SubTotal COST - Nonrecurring</b>													
<b>Total</b>		<b>9783</b>											

## Exhibit P-5a, Budget Procurement History and Planning

Date:  
June 2001

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

Weapon System Type:

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

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
<b>Load, Assemble, and Pack</b> FY 2000	American Ordnance Iowa AAP, IA	Option	ARDEC, Picatinny Arsenal	Jun 00	Apr 02	20	116	Yes		
<b>Metal Parts</b> FY 2000	Chamberlain Mfg Scranton AAP, PA	Option	ARDEC, Picatinny Arsenal	Jun 00	Feb 02	21	207	Yes		
<b>Metal Pallets</b> FY 2000	Nomura Rock Island, IL	Option	ARDEC, Picatinny Arsenal	Jun 00	Feb 02	3	163	Yes		
<b>Lifting Plugs</b> FY 2000	H&R Products South Bend, IN	Option	ARDEC, Picatinny Arsenal	Jun 00	Feb 02	21	7	Yes		

REMARKS:



**FY 02 / 03 BUDGET PRODUCTION SCHEDULE**

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

Date:  
June 2001

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	SEP	
Load, Assemble, and Pack	1	FY 00 & P	A	383.0	179.8	203.2	10.3	10.0	14.3	3.6	3.6	3.6	12.7	12.8	12.7	5.1	5.1	5.1	10.5	10.5	10.5	9.9	9.9	9.9	4.8	4.8	4.8	9.6	9.6	9.5	0.0
<b>Total</b>				383.0	179.8	203.2	10.3	10.0	14.3	3.6	3.6	3.6	12.7	12.8	12.7	5.1	5.1	5.1	10.5	10.5	10.5	9.9	9.9	9.9	4.8	4.8	4.8	9.6	9.6	9.5	0.0
							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	American Ordnance, Iowa AAP, IA	7.00	11.00	28.00	0	1	INITIAL	1	16	26	42																				
							REORDER	3	9	22	31																				
							INITIAL																								
							REORDER																								
							INITIAL																								
							REORDER																								
							INITIAL																								
							REORDER																								
							INITIAL																								
							REORDER																								

# Exhibit P-40, Budget Item Justification Sheet

Date:

June 2001

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

P-1 Item Nomenclature  
PROJ ARTY 155MM SADARM M898 (E66300)

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	1033											
Gross Cost	233.7	31.3	14.9									
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	233.7	31.3	14.9									
Initial Spares												
Total Proc Cost	233.7	31.3	14.9									
Flyaway U/C												
Wpn Sys Proc U/C												

**Description:**

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

DESCRIPTION: The 155mm Sense and Destroy Armor (SADARM) projectile provides an enhanced counterbattery and anti-armored vehicle capability to attack targets well beyond the Forward Line of Troops (FLOT). The SADARM projectile functions in a fire and forget mode. This indirect fire mission is accomplished under inclement weather, degraded battlefield conditions and Nuclear, Biological, Chemical (NBC) environments, both day and night. The SADARM munitions are designed for use against self-propelled howitzers, armored personnel carriers and other stationary armored threat vehicles encountered in counterfire, close support, Suppression of Enemy Air Defense (SEAD) and interdiction. The 155mm SADARM is delivered in the same manner as other 155mm munitions. Once dispensed from its carrier, the submunition detects targets using dual-mode millimeter wave and infrared sensors, and fires an explosively formed penetrator through the top of the target. The projectile is compatible with the momentum limits of standard and developmental 155mm Howitzers including Crusader and LW155 Towed. It is ballistically similar to the cargo family of 155mm ammunition. Operational interface with other systems is accomplished through Tactical Fire Control System (TACFIRE), Advanced Field Artillery Tactical Data System (AFATDS), and appropriate target acquisition sources. The item is Code A, approved for limited service use.

**Justification:**

JUSTIFICATION: The FY 2000 funds will be used to complete and support the prior years procurement and associated close-out costs.

Type Classification Dates: Low Rate Production: January 1995

Milestone Approval: Milestone IIIA (DAB): March 1995

ACQUISITION MANAGER: PM ARMS

<b>Exhibit P-5, Weapon AMMO Cost Analysis</b>		Appropriation/Budget Activity/Serial No. Procurement of Ammunition, Army / 1 / AMMUNITION			P-1 Line Item Nomenclature: PROJ ARTY 155MM SADARM M898 (E66300)			Weapon System Type:			Date: June 2001		
<b>AMMO Cost Elements</b>	ID CD	<b>FY 00</b>			<b>FY 01</b>			<b>FY 02</b>			<b>FY 03</b>		
		TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
		\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000
<b>AMMUNITION HARDWARE</b>													
Complete Round													
<b>SubTotal AMMO Hardware</b>													
<b>Production Support Costs</b>													
Production Engineering		2000											
Quality Assurance													
Acceptance Testing/Reliability Testing		438											
Production Testing													
Contract Close-out		12500											
<b>SubTotal Prod. Support</b>		<b>14938</b>											
<b>COST - Nonrecurring</b>													
First Article Testing													
Value Engineering & Royalties													
Live Fire Testing													
Initial Production Testing													
Target Replacement													
<b>SubTotal COST - Nonrecurring</b>													
<b>Total</b>		<b>14938</b>											



# Exhibit P-40, Budget Item Justification Sheet

Date:

June 2001

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:

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				59	104							
Gross Cost			8.2	27.4	48.2							
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)			8.2	27.4	48.2							
Initial Spares												
Total Proc Cost			8.2	27.4	48.2							
Flyaway U/C												
Wpn Sys Proc U/C												

**Description:**

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

The Remote Area Denial Artillery Munition (RADAM) projectile, is a single shot artillery munition used with 155mm howitzers. The RADAM will use 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).

**Justification:**

The RADAM projectile program is an initiative to implement Presidential policy and DoD direction. The National Command Authorities (NCA) have determined that the use of a single projectile with mixed systems containing both self-destruct (SD) anti-personnel and anti-armor submunitions preserves the right to employ artillery-delivered Family of Scatterable Mines (FASCAM) mines in order to deny enemy the use of certain terrain and for force protection.

Type Classification Date 25 October 2000; Initial Operational Capability: (Projected) March 2002

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

<b>Exhibit P-5, Weapon AMMO Cost Analysis</b>		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: June 2001		
<b>AMMO Cost Elements</b>	ID CD	<b>FY 00</b>			<b>FY 01</b>			<b>FY 02</b>			<b>FY 03</b>		
		TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
		\$000	x1000	\$	\$000	x1000	\$	\$000	x1000	\$	\$000	x1000	\$
<b>Hardware</b>													
Load, Assemble & Pack Complete Round Long Lead Components		2300			25000	59	427	44408	104	427			
<b>Subtotal</b>		<b>2300</b>			<b>25000</b>			<b>44408</b>					
<b>Production Support</b>													
Production Engineering		1387			1019			1000					
Quality Assurance		300			300			410					
Acceptance Testing		800			100			200					
<b>Subtotal</b>		<b>2487</b>			<b>1419</b>			<b>1610</b>					
<b>Non-Recurring Costs</b>													
Storage and Handling		800			700			2100					
Tooling		2600			300			100					
<b>Subtotal</b>		<b>3400</b>			<b>1000</b>			<b>2200</b>					
<b>Total</b>		<b>8187</b>			<b>27419</b>			<b>48218</b>					

## Exhibit P-5a, Budget Procurement History and Planning

Date:  
June 2001

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
<b>Load, Assemble &amp; Pack Complete Round</b>										
FY 2001	Day&Zimmerman (LSAAP) Texarkana TX	SS/FP	OSC	Sep 01	Jan 02	59	427	Yes		
FY 2002	Day&Zimmerman (LSAAP) Texarkana TX	Option	OSC	Mar 02	Nov 03	104	427	Yes		

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







# Exhibit P-40, Budget Item Justification Sheet

Date:

June 2001

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:

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	198	224							
Gross Cost	950.7	42.3	24.1	39.8	41.4							
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	950.7	42.3	24.1	39.8	41.4							
Initial Spares												
Total Proc Cost	950.7	42.3	24.1	39.8	41.4							
Flyaway U/C												
Wpn Sys Proc U/C												

**Description:**

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

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 2002 procurement supports annual peacetime training requirements and build war reserve inventory in accordance with the Army's procurement goals.

TYPE CLASSIFICATION DATE: 1958

ACQUISITION MANAGER: OSC, Rock Island, Ill

<b>Exhibit P-5, Weapon AMMO Cost Analysis</b>		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: June 2001		
<b>AMMO Cost Elements</b>	ID CD	<b>FY 00</b>			<b>FY 01</b>			<b>FY 02</b>			<b>FY 03</b>		
		TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
		\$000	x1000	\$	\$000	x1000	\$	\$000	x1000	\$	\$000	x1000	\$
<b>AMMUNITION HARDWARE</b>													
Load, Assemble, and Pack		8143	114	71.63	13629	198	68.69	14700	224	65.55			
Proj M107 MPTS		12146	116	104.74	21199	202	104.74	23957	229	104.74			
*Comp B Type 1 Grade A (LB)								9000	3835	2.35			
*TNT Type 1 Flake (LB)		2891	1842	1.57	5047	3215	1.57						
Plug, Shock Attenuating		584	116	5.03	1033	202	5.11						
*Plug, Shock Attenuating								400	229	1.75			
Grommet		120	117	1.02	212	204	1.04	282	231	1.22			
*Supplemental Charge		424	116	3.66	728	202	3.60	823	229	3.60			
Reclaim OP F/Supp Chg		637	116	5.50	1128	202	5.58	1119	229	4.89			
<b>SubTotal AMMO Hardware</b>		<b>24945</b>			<b>42976</b>			<b>50281</b>					
<b>Production Support Costs</b>													
Production Engineering		584			557			613					
Quality Assurance		12			12			12					
Acceptance Testing		750			1076			250					
Interim Transportation		346			315			50					
Industrial Stock Support		362			649			417					
<b>SubTotal Prod. Support</b>		<b>2054</b>			<b>2609</b>			<b>1342</b>					
<b>COST - Nonrecurring</b>													
Government Furnished Material		-2891			-5775			-10223					
<b>SubTotal COST - Nonrecurring</b>													
<b>Total</b>		<b>24108</b>		<b>212.06</b>	<b>39810</b>		<b>200.63</b>	<b>41400</b>		<b>184.62</b>			

# Exhibit P-5a, Budget Procurement History and Planning

Date:  
June 2001

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
<b>Load, Assemble, and Pack</b>										
FY 2000	American Ordnance (IAAP) Middletown, IA	SS/FP	OSC, Rock Island, IL	Sep 2000	Dec 2001	114	71.63			
FY 2001	American Ordnance (IAAP) Middletown, IA	SS/FP	OSC, Rock Island, IL	Apr 2001	Jun 2002	198	68.69	Y		
FY 2002	American Ordnance (IAAP) Middletown, IA	SS/FP	OSC, Rock Island, IL	Mar 2002	Mar 2003	224	65.55	Y		
<b>Proj M107 MPTS</b>										
FY 2000		SS/FP	OSC, Rock Island, IL	Apr 2000	Mar 2001	116	104.74			
FY 2001		SS/FP	OSC, Rock Island, IL	Apr 2001	Jan 2002	202	104.74	Y		
FY 2002		SS/FP	OSC, Rock Island, IL	Mar 2002	Jan 2003	229	104.74	Y		
<b>*Comp B Type 1 Grade A (LB)</b>										
FY 2002	Stock Issue	N/A	N/A	N/A	N/A	3835				
<b>*TNT Type 1 Flake (LB)</b>										
FY 2000	Stock Issue	N/A	N/A	N/A	N/A	1842				
FY 2001	Stock Issue	N/A	N/A	N/A	N/A	3215				
<b>Plug, Shock Attenuating</b>										
FY 2000	TBS	C/FP	OSC, Rock Island, IL	May 2001	Nov 2001	116	5.03			

REMARKS: TBS - To Be Selected  
\*Government Furnished Material

## Exhibit P-5a, Budget Procurement History and Planning

Date:  
June 2001

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 2001 <b>*Plug, Shock Attenuating</b>	TBS	C/FP	OSC, Rock Island, IL	May2001	Dec 2001	202	5.11			
FY 2002 <b>Grommet</b>	Stock Issue	N/A	N/A	N/A	N/A	229				
FY 2000	Midgard Inc Greene, PA	C/FP	OSC, Rock Island, IL	Mar 2000	Nov 2000	117	1.02			
FY 2001	TBS	C/FP	OSC, Rock Island, IL	May 2001	Dec 2001	204	1.04	Y		
FY 2002 <b>*Supplemental Charge</b>	TBS	C/FP	OSC, Rock Island, IL	Mar 2002	Nov 2002	231	1.22	Y		
FY 2000	Stock Issue	N/A	N/A	N/A	N/A	116				
FY 2001	Stock Issue	N/A	N/A	N/A	N/A	202				
FY 2002 <b>Reclaim OP F/Supp Chg</b>	Stock Issue	N/A	N/A	N/A	N/A	229				
FY 2000	McAlester AAP (MCAAP) McAlester, OK	SS/FP	OSC, Rock Island, IL	May 2000	Jul 2001	116	5.50			
FY 2001	McAlester AAP (MCAAP) McAlester, OK	SS/FP	OSC, Rock Island, IL	Feb 2001	Dec 2001	202	5.58	Y		
FY 2002	McAlester AAP (MCAAP) McAlester, OK	SS/FP	OSC, Rock Island, IL	Feb 2002	Dec 2002	229	4.89	Y		

REMARKS: TBS - To Be Selected  
\*Government Furnished Material







# Exhibit P-40, Budget Item Justification Sheet

Date:

June 2001

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

P-1 Item Nomenclature  
MODULAR ARTILLERY CHARGE SYSTEM (MACS) (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			455	490	836							
Gross Cost			42.6	39.6	87.4							
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)			42.6	39.6	87.4							
Initial Spares												
Total Proc Cost			42.6	39.6	87.4							
Flyaway U/C												
Wpn Sys Proc U/C												

**Description:**

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

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 XM232 "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 XM232 "high zone" increment. Packaging permits long-term storage, transportation and helps protect the items from unplanned stimuli. This system supports the Legacy-to-Objective transition path of the Transformation Campaign Plan (TCP).

**Justification:**

MACS is required to achieve logistics improvements to 155MM cannon field artillery (to include the XM2001 Crusader system) 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, XM232 4Q FY01

Acquisition Manager: PM Crusader

<b>Exhibit P-5, Weapon AMMO Cost Analysis</b>		Appropriation/Budget Activity/Serial No. Procurement of Ammunition, Army / 1 / AMMUNITION			P-1 Line Item Nomenclature: MODULAR ARTILLERY CHARGE SYSTEM (MACS) (ER8021)			Weapon System Type:			Date: June 2001		
<b>AMMO Cost Elements</b>	ID CD	<b>FY 00</b>			<b>FY 01</b>			<b>FY 02</b>			<b>FY 03</b>		
		TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
		\$000	x1000	\$	\$000	x1000	\$	\$000	x1000	\$	\$000	x1000	\$
<b>Ammunition Hardware</b>													
Load, Assemble and Pack		16054	455	35	7856	490	16	23572	836	28			
Combustible Case Sets		14759	483	31	15159	504	31	27200	850	32			
Propellant (Single Base)		8117	1910	4	5803	1377	4	5150	1030	5			
Propellant (Triple Base)								16600	2600	6			
Ignition System/Spheriodal Propellant		207	34	7	225	31	7	378	54	7			
Misc Components		160	5	32	465	4	11	300	9	33			
Lap Containers					5200	123	42	7770	185	42			
SMP992 Additive Pellets								910	35	26			
<b>Sub Total Ammo Hardware</b>		<b>39297</b>			<b>34708</b>			<b>81880</b>					
<b>Production Support Costs</b>													
Production Engineering		1069			2411			2422					
Quality Assurance		400			420			200					
Testing		587			900			1320					
Technical Rpt Prep		84			360			80					
Value Engineering					300			150					
Fielding								530					
<b>Sub Total Production Support Costs</b>		<b>2140</b>			<b>4391</b>			<b>4702</b>					
<b>Costs- Non Recurring</b>													
Inert Training Devices		664			466			831					
Case Coating Evaluation		500											
<b>Sub Total Costs Non Recurring</b>		<b>1164</b>			<b>466</b>			<b>831</b>					
<b>Total</b>		<b>42601</b>			<b>39565</b>			<b>87413</b>					

# Exhibit P-5a, Budget Procurement History and Planning

Date:  
June 2001

Appropriation/Budget Activity/Serial No: Procurement of Ammunition, Army / 1 / AMMUNITION		Weapon System Type:			P-1 Line Item Nomenclature: MODULAR ARTILLERY CHARGE SYSTEM (MACS) (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
<b>Load, Assemble and Pack</b>										
FY 2000	Hitech Woodberry, AR	C-FP	Picatinny Arsenal	Jun-00	Aug-01	455	35	Y		Feb-00
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	Nov-01	Oct-02	836	28	Y		Sep-01
<b>Combustible Case Sets</b>										
FY 2000	Armtec Coachella, CA	SS-FP	Picatinny Arsenal	Apr-00	Jul-00	483	31	Y		Feb-00
FY 2001	Armtec Coachella, CA	SS-FP	Picatinny Arsenal	Nov-00	Jul-01	504	31	Y		Oct-00
FY 2002	Armtec Coachella, CA	SS-FP	Picatinny Arsenal	Nov-01	Apr-02	850	32	Y		Oct-01
<b>Propellant (Single Base)</b>										
FY 2000	Alliant Techsystems Radford, VA	C-FP	Picatinny Arsenal	May-00	Apr-01	1910	4	Y		Mar-00
FY 2001	Alliant Techsystems Radford, VA	C-FP	Picatinny Arsenal	Dec-00	Oct-01	1377	4	Y		Oct-00
FY 2002	TBS	C-FP	Picatinny Arsenal	Dec-01	Jul-02	1030	5	Y		Oct-01
<b>Propellant (Triple Base)</b>										
FY 2002	TBS	C-FP	Picatinny Arsenal	Nov-01	May-02	2600	6	Y		Aug-01
<b>Ignition System/Spheriodal Propellant</b>										

REMARKS:

# Exhibit P-5a, Budget Procurement History and Planning

Date:  
June 2001

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

Weapon System Type:

P-1 Line Item Nomenclature:  
MODULAR ARTILLERY CHARGE SYSTEM (MACS) (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
FY 2000	Primex St. Marks, FL	SS-FP	Picatinny Arsenal	Jun-00	Oct-00	34	7	Y		Mar-00
FY 2001	Primex St. Marks, FL	SS-FP	Picatinny Arsenal	Dec-00	Feb-01	31	7	Y		Mar-00
FY 2002	Primex St. Marks, FL	SS-FP	Picatinny Arsenal	Nov-01	Feb-02	54	7	Y		Mar-00
<b>Lap Containers</b>										
FY 2001	Conco Louisville, KY	C-FP	Picatinny Arsenal	Feb-01	Apr-01	123	42	Y		Sep-00
FY 2002	TBS	C-FP	Picatinny Arsenal	Feb-02	Apr-02	185	42	Y		Sep-01
<b>SMP992 Additive Pellets</b>										
FY 2002	Primex St. Marks, FL	SS-FP	Picatinny Arsenal	Jan-02	May-02	35	26	Y		Oct-01

REMARKS:







# Exhibit P-40, Budget Item Justification Sheet

Date:

June 2001

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	6.8	41.7	66.4	56.4							
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	524.6	6.8	41.7	66.4	56.4							
Initial Spares												
Total Proc Cost	524.6	6.8	41.7	66.4	56.4							
Flyaway U/C												
Wpn Sys Proc U/C												

**Description:**

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

This budget line includes Artillery Fuzes, All Types

<b>Exhibit P-5, Weapon AMMO Cost Analysis</b>		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: June 2001		
<b>AMMO Cost Elements</b>	ID CD	<b>FY 00</b>			<b>FY 01</b>			<b>FY 02</b>			<b>FY 03</b>		
		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		27791	198	8	5295	40	0	8605	64	134			
Fuze Multi Option		13951	50	0	45215	155	0	37548	139	0			
Fuze Arty Elec Time M762					15881	158	0	10290	81	113			
<b>Total</b>		<b>41742</b>			<b>66391</b>			<b>56443</b>					

# Exhibit P-40, Budget Item Justification Sheet

Date:

June 2001

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:

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							
Gross Cost	61.5	5.0	27.8	5.3	8.6							
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	61.5	5.0	27.8	5.3	8.6							
Initial Spares												
Total Proc Cost	61.5	5.0	27.8	5.3	8.6							
Flyaway U/C												
Wpn Sys Proc U/C												

**Description:**

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

The M767A1 Electronic Time (ET) Fuze is a boosted version of the M762A1 Electronic Time (ET) Fuze. In tandem with the M762A1 Fuze, the M767A1 Fuze is currently being qualified by Bulova Technologies under a contract award to conduct a Materiel Change Program (MCP) on the basic M762 and M767 ET Fuze designs. Bulova is also under contract to deliver the initial M767A1 production quantity. The MCP improves producibility, upgrades technology, provides a more robust design, and enhances user interface. The M767A1 will retain the existing dual setting capability (1) Hand set without need for any tool, and (2) remote inductive setting for higher rates of fire. This fuze will be used in 155mm howitzers. In addition to US requirements, the Fuze will also comply with 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. This item will be code A, approved for service use.

**Justification:**

The FY 2002 procurement continues to support 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.

TC Standard: M767 September 1988; M767A1 February 2001

Acquisition Manager: TACOM-ARDEC, Picatnny Arsenal, NJ

<b>Exhibit P-5, Weapon AMMO Cost Analysis</b>		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: June 2001		
<b>AMMO Cost Elements</b>	ID CD	<b>FY 00</b>			<b>FY 01</b>			<b>FY 02</b>			<b>FY 03</b>		
		TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
		\$000	x1000	\$	\$000	x1000	\$	\$000	x1000	\$	\$000	x1000	\$
<b>AMMUNITION HARDWARE</b>													
Load, Assemble, and Pack	A	1502	198	8	277	40	7	446	64	7			
Fuze Metal Parts - M767A1		23186	198	0	4467	40	112	7201	64	113			
Box, Metal, M2A1		181	26	7	35	5	7	56	8	7			
<b>SubTotal AMMO Hardware</b>		<b>24869</b>			<b>4779</b>			<b>7703</b>					
<b>Production Support Costs</b>													
Production Engineering		1000			180			371					
Quality Assurance		425			90			120					
Acceptance Testing		1300			228			380					
Interim Transportation		53			9			16					
<b>SubTotal Prod. Support</b>		<b>2778</b>			<b>507</b>			<b>887</b>					
<b>COST - Nonrecurring</b>													
First Article Testing		100											
Government Furnished Material		44			9			15					
<b>SubTotal COST - Nonrecurring</b>		<b>144</b>			<b>9</b>			<b>15</b>					
<b>Total</b>		<b>27791</b>		<b>150</b>	<b>5295</b>		<b>115</b>	<b>8605</b>		<b>134</b>			

# Exhibit P-5a, Budget Procurement History and Planning

Date:  
June 2001

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
<b>Load, Assemble, and Pack</b>										
FY 2000	Bulova	C/FP	TACOM-ARDEC	Apr 00	Aug 01	198	8	Yes		
FY 2001	Unknown	C/MY-1/FP	TACOM-ARDEC	Jul 01	Jan 03	40	7			
FY 2002	Unknown	C/MY-2/FP	TACOM-ARDEC	Apr 02	Jul 03	64	7			
<b>Fuze Metal Parts - M767A1</b>										
FY 2000	Bulova	C/FP	TACOM-ARDEC	Apr 00	Jun 01	198	0	Yes		
FY 2001	Unknown	C/MY-1/FP	TACOM-ARDEC	Jul 01	Oct 02	40	112	Yes		
FY 2002	Unknown	C/MY-2/FP	TACOM-ARDEC	Apr 02	Apr 03	64	113	Yes		

REMARKS: The work for Load, Assemble, and Pack, shall be included within the Fuze Metal Parts contract. It is anticipated that the FY01-05 buys will be competitively awarded via a single multi-year contract with priced option quantities to satisfy future Army and USMC add on quantities. This multi-year contract shall also include the FY01-05 M762A1 buys.





# Exhibit P-40, Budget Item Justification Sheet

Date:

June 2001

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:

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			158	81							
Gross Cost	68.7			15.9	10.3							
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	68.7			15.9	10.3							
Initial Spares												
Total Proc Cost	68.7			15.9	10.3							
Flyaway U/C												
Wpn Sys Proc U/C												

**Description:**

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

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 Fuze is currently being qualified by Bulova Technologies under a contract award to conduct a Materiel Change Program (MCP) on the basic M762 and M767 ET Fuze designs. Bulova is also under contract to deliver the initial M762A1 production quantity. The MCP improves producibility, upgrades the technology, provides a more robust design, and enhances the user interface. The M762A1 will retain the existing dual setting capability: (1) Hand set without need for any tool, and (2) remote inductive setting for higher rates of fire. This fuze is used in the 155mm howitzers. In addition to the US requirements, the Fuze will also comply with 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 will be produced on the same production line, the procurement of the M762A1 will accelerate the achievement of a unit cost reduction for the entire ET artillery fuze family. This item will be code A, approved for service use.

**Justification:**

The FY 2002 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.

TC Standard: M762 - September 1988

Acquisition Manager: TACOM-ARDEC, Picatinny, NJ

<b>Exhibit P-5, Weapon AMMO Cost Analysis</b>		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: June 2001		
<b>AMMO Cost Elements</b>	ID CD	<b>FY 00</b>			<b>FY 01</b>			<b>FY 02</b>			<b>FY 03</b>		
		TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
		\$000	x1000	\$	\$000	x1000	\$	\$000	x1000	\$	\$000	x1000	\$
<b>AMMUNITION HARDWARE</b>													
Fuze, ET, M762A1					14179	158	90	9113	81	113			
Box, Metal, M2A1					111	16	7	71	102	1			
<b>SubTotal AMMO Hardware</b>					<b>14290</b>			<b>9184</b>					
<b>Production Support Costs</b>													
Production Engineering					525			401					
Quality Assurance					275			180					
Acceptance Testing					625			480					
Interim Transportation					36			24					
<b>SubTotal Prod. Support</b>					<b>1461</b>			<b>1085</b>					
<b>COST - Nonrecurring</b>													
First Article Testing					100								
Government Furnished Material					30			21					
<b>SubTotal COST - Nonrecurring</b>					<b>130</b>			<b>21</b>					
<b>Total</b>					<b>15881</b>		<b>108</b>	<b>10290</b>		<b>99</b>			

# Exhibit P-5a, Budget Procurement History and Planning

Date:  
June 2001

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
<b>Fuze, ET, M762A1</b> FY 2001 FY 2002	Unknown Unknown	MYP-1/FP MYP-2/FP	TACOM-ARDEC TACOM-ARDEC	Apr 01 Apr 02	Apr 02 Dec 02	158 81	90 113	Yes Yes		

REMARKS: It is anticipated that the FY01-05 buys will be competitively awarded via a single multi-year contract with priced option quantities to satisfy future Army and USMC add on quantities. This multi-year contract shall also include the FY01-05 M767A1 buys.





# Exhibit P-40, Budget Item Justification Sheet

Date:

June 2001

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	155	139							
Gross Cost		1.5	14.0	45.2	37.5							
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)		1.5	14.0	45.2	37.5							
Initial Spares												
Total Proc Cost		1.5	14.0	45.2	37.5							
Flyaway U/C												
Wpn Sys Proc U/C												

**Description:**

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

This budget line item supports procurement of the Multi Option Fuze for Artillery (MOFA). The 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 (TCP).

**Justification:**

Expeditious procurement of MOFA is essential to support currently fielded 155mm artillery systems.

Acquisition Manager: PM ARMS

Type Classification Date: 13 Dec 1999

<b>Exhibit P-5, Weapon AMMO Cost Analysis</b>		Appropriation/Budget Activity/Serial No. Procurement of Ammunition, Army / 1 / AMMUNITION			P-1 Line Item Nomenclature: FUZE MULTI OPTION (ER8017)			Weapon System Type:			Date: June 2001		
<b>AMMO Cost Elements</b>	ID CD	<b>FY 00</b>			<b>FY 01</b>			<b>FY 02</b>			<b>FY 03</b>		
		TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
		\$000	x1000	\$	\$000	x1000	\$	\$000	x1000	\$	\$000	x1000	\$
<b>AMMUNITION HARDWARE</b>													
M782 Complete Fuze		12456	50	249	41946	155	271	35274	139	254			
PBX N-5 Explosives, lbs. (GFM)		105	3	35	335	10	34						
M2A1 AMMO Cans (GFM)		50	6	8	193	22	9	144	18	8			
<b>SubTotal AMMO Hardware</b>		<b>12611</b>			<b>42474</b>			<b>35418</b>					
<b>Production Support Costs</b>													
Production Engineering		1100			1156			924					
Logistics and Packaging		100			230			100					
Ballistic Computer Updates					120			14					
Quality Assurance, Safety and Environ.		140			350			100					
<b>SubTotal Prod. Support</b>		<b>1340</b>			<b>1856</b>			<b>1138</b>					
<b>COST - Nonrecurring</b>													
First Article Testing					304			200					
Lot Acceptance Testing								652					
Test and Instrumentation Materials					95			50					
Gov't Test Team					30			90					
Training Fuzes					456								
<b>SubTotal COST - Nonrecurring</b>					<b>885</b>			<b>992</b>					
<b>Total</b>		<b>13951</b>			<b>45215</b>			<b>37548</b>					

## Exhibit P-5a, Budget Procurement History and Planning

Date:  
June 2001

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
<b>M782 Complete Fuze</b>										
FY 2000	KDI Cinn, Ohio	MYP2-FP	Picatinny Arsenal, NJ	Sep-00	Dec-01	50	249	Y		Feb-00
FY 2001	KDI Cinn, Ohio	MYP3-FP	Picatinny Arsenal, NJ	Dec-00	May-02	155	271	Y		Feb-00
FY 2002	TBS	MYP1-FP	Picatinny Arsenal, NJ	Dec-01	Feb-03	139	254	Y		Jan-01

REMARKS: The FY00 and FY01 buys were part of an approved Multi Year contract action which included the FY99 buy. The current Acquisition Strategy calls for a 5 year Multi-year contract for FY02-FY06. Please note beginning in FY02, the acquisition of the PBX N-5 Explosives will be included in the contract for the M782 MOFA Fuze.





# Exhibit P-40, Budget Item Justification Sheet

Date:

June 2001

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	1.1	7.8	3.9	9.5							
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	47.6	1.1	7.8	3.9	9.5							
Initial Spares												
Total Proc Cost	47.6	1.1	7.8	3.9	9.5							
Flyaway U/C												
Wpn Sys Proc U/C												

**Description:**

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

This budget line covers Mine Training, All Types.

<b>Exhibit P-5, Weapon AMMO Cost Analysis</b>		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: June 2001		
<b>AMMO Cost Elements</b>	ID CD	<b>FY 00</b>			<b>FY 01</b>			<b>FY 02</b>			<b>FY 03</b>		
		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)		3707	4	926.75									
WAM Individual Trainer		1775	78	22.76	1519	124	12.25	3822	251	15.23			
WAM Collective Trainer								1954	1915	1.20			
Mod Crowd Control Munition, Non Lethal		2305	5	461.00	2337	3	779.00	3760	4	940.00			
<b>Total</b>		<b>7787</b>			<b>3856</b>			<b>9536</b>					

# Exhibit P-40, Budget Item Justification Sheet

Date:

June 2001

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:

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		78	124	251							
Gross Cost	1.8		1.8	1.5	3.8							
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	1.8		1.8	1.5	3.8							
Initial Spares												
Total Proc Cost	1.8		1.8	1.5	3.8							
Flyaway U/C												
Wpn Sys Proc U/C												

**Description:**

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

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 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) - June 2002 - LRIP  
(Proposed) - December 2003 - Standard

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

<b>Exhibit P-5, Weapon AMMO Cost Analysis</b>		Appropriation/Budget Activity/Serial No. Procurement of Ammunition, Army / 1 / AMMUNITION			P-1 Line Item Nomenclature: WAM INDIVIDUAL TRAINER (E78103)			Weapon System Type:			Date: June 2001		
<b>AMMO Cost Elements</b>	ID CD	<b>FY 00</b>			<b>FY 01</b>			<b>FY 02</b>			<b>FY 03</b>		
		TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
		\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000
<b>Hardware</b>													
WAM Individual Trainer		1101	78	14	1259	124	10	2542	251	10			
<b>Subtotal</b>		<b>1101</b>			<b>1259</b>			<b>2542</b>					
<b>Production Support</b>													
Production Engineering		169			110			250					
Quality Assurance		60			25			80					
Acceptance Testing		85			25			50					
<b>Subtotal</b>		<b>314</b>			<b>160</b>			<b>380</b>					
<b>Non-Recurring Costs</b>													
Producibility		50			25			200					
Engineering Changes		50			25			100					
Production Verification Test		60			50			100					
Contractor Engineering Support		200						500					
<b>Subtotal</b>		<b>360</b>			<b>100</b>			<b>900</b>					
<b>Total</b>		<b>1775</b>			<b>1519</b>			<b>3822</b>					

## Exhibit P-5a, Budget Procurement History and Planning

Date:  
June 2001

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
<b>WAM Individual Trainer</b>										
FY 2000	Textron Defense Systems Wilmington, MA	SS/Mod	ARDEC	Jul 00	Aug 00	78	14	Yes		
FY 2001	TBS	C/FP	STRICOM	Aug 02	Feb 03	124	10	Yes		
FY 2002	TBS	Option	STRICOM	Aug 02	Apr 03	251	10	Yes		

REMARKS:







# Exhibit P-40, Budget Item Justification Sheet

Date:

June 2001

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:

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								
Gross Cost	400.3	11.9	18.0	14.9								
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	400.3	11.9	18.0	14.9								
Initial Spares												
Total Proc Cost	400.3	11.9	18.0	14.9								
Flyaway U/C												
Wpn Sys Proc U/C												

**Description:**

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

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 100 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.

**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.

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)

<b>Exhibit P-5, Weapon AMMO Cost Analysis</b>		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: June 2001		
<b>AMMO Cost Elements</b>	ID CD	<b>FY 00</b>			<b>FY 01</b>			<b>FY 02</b>			<b>FY 03</b>		
		TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
		\$000	x1000	\$	\$000	x1000	\$	\$000	x1000	\$	\$000	x1000	\$
<b>Hardware</b>													
LAP (M87A1)		4889	4	1222	4000	3	1157						
MSEP Electronic Lens		8500	26	332	6955	22	321						
Coil and Strap Assembly		808	4	186	662	4	186						
Metal Parts Sets		1130	4	261	925	4	260						
AT S&A Assembly		1012	29	35	829	24	35						
Miscellaneous		53			43								
<b>Subtotal</b>		<b>16392</b>			<b>13414</b>								
<b>Production Support</b>													
Production Engineering		856			788								
Quality Assurance		571			525								
Lot Acceptance Testing		181			135								
<b>Subtotal</b>		<b>1608</b>			<b>1448</b>								
<b>Total</b>		<b>18000</b>			<b>14862</b>								

## Exhibit P-5a, Budget Procurement History and Planning

Date:  
June 2001

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
<b>LAP (M87A1)</b>										
FY 2000	Day&Zimmerman (LSAAP) Texarkana, TX	SS/FP	OSC	Apr 01	Nov 01	4	1222	Yes		
FY 2001	Day&Zimmerman (LSAAP) Texarkana, TX	SS/FP	OSC	May 01	Oct 02	3	1157	Yes		
<b>MSEP Electronic Lens</b>										
FY 2000	Alliant Techsystems Edina, MN	SS/FP	ARDEC	Sep 00	Mar 01	26	332	Yes		
FY 2001	Alliant Techsystems Edina, MN	Option	ARDEC	Mar 01	Dec 01	22	321	Yes		
<b>Coil and Strap Assembly</b>										
FY 2000	MaTech Salisbury, MD	SS/FP	ARDEC	Sep 00	May 01	4	186	Yes		
FY 2001	MaTech Salisbury, MD	Option	ARDEC	Apr 01	Sep 01	4	186	Yes		
<b>Metal Parts Sets</b>										
FY 2000	MaTech Salisbury, MD	SS/FP	ARDEC	Sep 01	May 01	4	261	Yes		
FY 2001	MaTech Salisbury, MD	Option	ARDEC	Apr 01	Sep 01	4	260	Yes		
<b>AT S&amp;A Assembly</b>										
FY 2000	Action Mfg Philadelphia PA	Option	OSC	May 00	Apr 01	29	35	Yes		
FY 2001	TBS	C/FP	OSC	Aug 01	Nov 01	24	35	Yes		

REMARKS:





# Exhibit P-40, Budget Item Justification Sheet

Date:

June 2001

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:

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	33	70	57								
Gross Cost	39.3	9.5	15.2	19.1	2.0							
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	39.3	9.5	15.2	19.1	2.0							
Initial Spares												
Total Proc Cost	39.3	9.5	15.2	19.1	2.0							
Flyaway U/C												
Wpn Sys Proc U/C												

**Description:**

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

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 adds on-off-on, redeployability and performance enhancements. 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. The FY 2002 funds engineering in support of production.

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

WAM (PIP) Type Classification Date: June 2002 - LRIP

WAM (PIP) Type Classification Date: December 2003 - Standard

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

<b>Exhibit P-5, Weapon AMMO Cost Analysis</b>		Appropriation/Budget Activity/Serial No. Procurement of Ammunition, Army / 1 / AMMUNITION			P-1 Line Item Nomenclature: WIDE AREA MUNITIONS (E78100)			Weapon System Type:			Date: June 2001		
<b>AMMO Cost Elements</b>	ID CD	<b>FY 00</b>			<b>FY 01</b>			<b>FY 02</b>			<b>FY 03</b>		
		TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
		\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000
<b>Hardware</b>													
LAP Wide Area Munition - Basic		11310	70	162	5000	22	227						
LAP Wide Area Munition - PIP					7029	35	201						
Miscellaneous		53			70								
<b>Subtotal</b>		<b>11363</b>			<b>12099</b>								
<b>Production Support</b>													
Production Engineering		842			1259			775					
Quality Assurance		206			500								
OGA Support		111			150			250					
<b>Subtotal</b>		<b>1159</b>			<b>1909</b>			<b>1025</b>					
<b>Non-Recurring Costs</b>													
Producibility/Tooling		1610			2200			700					
Engineering Changes		569			500								
Production Verification Test					2100								
Contractor Engineering Support		490			300			300					
<b>Subtotal</b>		<b>2669</b>			<b>5100</b>			<b>1000</b>					
<b>Total</b>		<b>15191</b>			<b>19108</b>			<b>2025</b>					

## Exhibit P-5a, Budget Procurement History and Planning

Date:  
June 2001

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
<b>LAP Wide Area Munition - Basic</b>										
FY 2000	Textron Defense Systems Wilmington, MA	Mod/FP	ARDEC	Jul 00	Nov 01	70	162	Yes		
FY 2001	Textron Defense Systems Wilmington, MA	SS/FP	ARDEC	Apr 01	Jan 02	22	227	Yes		
<b>LAP Wide Area Munition - PIP</b>										
FY 2001	Textron Defense Systems Wilmington, MA	SS/FP	ARDEC	Aug 02	Dec 03	35	201	Yes		

REMARKS:







# Exhibit P-40, Budget Item Justification Sheet

Date:

June 2001

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	5412	1076	1104	598								
Gross Cost	39.3	9.9	9.8	5.9								
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	39.3	9.9	9.8	5.9								
Initial Spares												
Total Proc Cost	39.3	9.9	9.8	5.9								
Flyaway U/C												
Wpn Sys Proc U/C												

**Description:**

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

This budget line includes Bunker Defeating Munitions, All Types.

<b>Exhibit P-5, Weapon AMMO Cost Analysis</b>		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: June 2001		
<b>AMMO Cost Elements</b>	ID CD	<b>FY 00</b>			<b>FY 01</b>			<b>FY 02</b>			<b>FY 03</b>		
		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)		9808	1104	8.88	5945	598	8.07						
<b>Total</b>		<b>9808</b>			<b>5945</b>								

# Exhibit P-40, Budget Item Justification Sheet

Date:

June 2001

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:

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								
Gross Cost	39.3	9.9	9.8	5.9								
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	39.3	9.9	9.8	5.9								
Initial Spares												
Total Proc Cost	39.3	9.9	9.8	5.9								
Flyaway U/C												
Wpn Sys Proc U/C		8.1	9.8	9.9								

**Description:**

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

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

<b>Exhibit P-5, Weapon AMMO Cost Analysis</b>		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: June 2001		
<b>AMMO Cost Elements</b>	ID CD	<b>FY 00</b>			<b>FY 01</b>			<b>FY 02</b>			<b>FY 03</b>		
		TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
		\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000
<b>AMMUNITION HARDWARE</b>													
Complete Round	B	8190	1104	7	4617	598	8						
Field Handling System	B	219	48	4	119	26	4						
<b>SubTotal AMMO Hardware</b>		<b>8409</b>			<b>4736</b>								
<b>Production Support Costs</b>													
Production Engineering		795			685								
Quality Assurance		121			131								
Acceptance Testing		448			358								
Interim Transportation		35			35								
<b>SubTotal Prod. Support</b>		<b>1399</b>			<b>1209</b>								
<b>Total</b>		<b>9808</b>		<b>10</b>	<b>5945</b>		<b>10</b>						

## Exhibit P-5a, Budget Procurement History and Planning

Date:  
June 2001

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
<b>Complete Round</b>										
FY 1999	Talley Mesa, AZ	Option	TACOM--ARDEC	Sep 01	Dec 00	1076	8			
FY 2000	Talley Mesa, AZ	Option	TACOM-ARDEC	Sep 00	Mar 02	1104	7			
FY 2001	Talley Mesa, AZ	FFP	TACOM-ARDEC	Apr 01	Jul 02	598	8			
<b>Field Handling System</b>										
FY 1999	Talley Mesa, AZ	Option	TACOM-ARDEC	Sep 99	Dec 01	47	5			
FY 2000	Talley Mesa, AZ	Option	TACOM-ARDEC	Sep 00	Mar 02	48	4			
FY 2001	Talley Mesa, AZ	FFP	TACOM-ARDEC	Apr 01	Jul 02	26	4			

REMARKS:





# Exhibit P-40, Budget Item Justification Sheet

Date:

June 2001

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:

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	136.7							
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	935.0	122.5	143.6	155.3	136.7							
Initial Spares												
Total Proc Cost	935.0	122.5	143.6	155.3	136.7							
Flyaway U/C												
Wpn Sys Proc U/C												

**Description:**

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

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 ensuring a near-term warfighting readiness posture. This system of aerial rockets is used by Army aircraft (AH-64 Apache, OH-58D Kiowa Warrior, and AH-1 Cobra helicopters) to perform a number of roles including anti-materiel, anti-personnel, and air-to-ground suppression.

<b>Exhibit P-5, Weapon AMMO Cost Analysis</b>		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: June 2001		
<b>AMMO Cost Elements</b>	ID CD	<b>FY 00</b>			<b>FY 01</b>			<b>FY 02</b>			<b>FY 03</b>		
		TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
		\$000	x1000	\$	\$000	x1000	\$	\$000	x1000	\$	\$000	x1000	\$
ROCKET HYDRA 70 MPSM HE M261		510			5800								
ROCKET 2.75 HE M151 WHD/M423 PD FUZE		850	11	77									
ROCKET HYDRA 70 ILLUM M257		299			1450								
ROCKET HYDRA 70 MPSM PRAC M267		36540	36	1015	31178	29	1075	31423	31	1014			
ROCKET HYDRA 70 HE/PD M151/M423		34087	47	725	28390	24	1183	25435	31	820			
ROCKET HYDRA 70 SIG PRAC M274		71338	119	599	88512	148	598	79796	132	605			
<b>Total</b>		<b>143624</b>			<b>155330</b>			<b>136654</b>					

# Exhibit P-40, Budget Item Justification Sheet

Date:

June 2001

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:

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											
Gross Cost	98.0		0.5	5.8								
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	98.0		0.5	5.8								
Initial Spares												
Total Proc Cost	98.0		0.5	5.8								
Flyaway U/C												
Wpn Sys Proc U/C												

**Description:**

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

This system of aerial rockets is used by Army aircraft (AH-64 Apache, OH-58D Kiowa Warrior, and AH-1 Cobra helicopters) to perform a number of roles including anti-materiel, anti-personnel, and air-to-ground suppression. The M261 HE Multi-Purpose Sub-Munition (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 sub-munitions. The primary warhead fuze (M439) is remotely set to provide range (time of flight) from 500 meters to approximately 7,000 meters.

**Justification:**

Program provides for upgrade of approximately 23,000 tactical rockets by incorporating the latest configuration MK66 MOD4 motor. The FY 2000 program upgrades approximately 10K tactical rounds by exchanging existing motors with newer motors from training rocket inventory. The FY 2001 program procures additional MK66 MOD4 motors to upgrade approximately 13K tactical rounds that are unserviceable due to various motor defects or are restricted pending motor screening. The MOD 4 motor is an improved MK66 rocket motor design that is common to all United States Armed Services. This motor meets Army, Navy, and Air Force explosive safety requirements for the Hazards of Electromagnetic Energy to Ordnance (HERO) and Electrostatic Discharge (ESD). MOD 4 motor improvements allow the HYDRA 70 rocket to be safely "tube loaded" into launchers on aircraft with turning rotors in all operational environments.

TYPE CLASSIFICATION DATE: 1982

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

# Exhibit P-40, Budget Item Justification Sheet

Date:

June 2001

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:

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	38	36	29	31							
Gross Cost	172.8	38.1	36.5	31.2	31.4							
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	172.8	38.1	36.5	31.2	31.4							
Initial Spares												
Total Proc Cost	172.8	38.1	36.5	31.2	31.4							
Flyaway U/C												
Wpn Sys Proc U/C		1002.02632	1015.00000	1075.10345	1013.64516							

**Description:**

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

This system of aerial rockets is used by Army aircraft (AH-64 Apache, OH-58D Kiowa Warrior, and AH-1 Cobra helicopters) to perform a number of roles including anti-materiel, anti-personnel, and air-to-ground suppression. The M267 Multi-purpose 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.

**Justification:**

This is a training unique item; not used in combat. The FY 2002 procurement supports annual peacetime training and build a depot level in accordance with the Army's procurement goals. 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.

<b>Exhibit P-5, Weapon AMMO Cost Analysis</b>		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: June 2001		
<b>AMMO Cost Elements</b>	ID CD	<b>FY 00</b>			<b>FY 01</b>			<b>FY 02</b>			<b>FY 03</b>		
		TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
		\$000	x1000	\$	\$000	x1000	\$	\$000	x1000	\$	\$000	x1000	\$
<b>AMMUNITION HARDWARE</b>													
Complete Round		33160	36	921	27447	29	946	29091	31	938			
<b>SubTotal AMMO Hardware</b>		<b>33160</b>			<b>27447</b>			<b>29091</b>					
<b>Production Support Costs</b>													
Production Engineering		1321			1639			1927					
<b>SubTotal Prod. Support</b>		<b>1321</b>			<b>1639</b>			<b>1927</b>					
<b>COST - Nonrecurring</b>													
Materiel Change		2059			2092			405					
<b>SubTotal COST - Nonrecurring</b>		<b>2059</b>			<b>2092</b>			<b>405</b>					
<b>Total</b>		<b>36540</b>		<b>1015</b>	<b>31178</b>		<b>1075</b>	<b>31423</b>		<b>1014</b>			

## Exhibit P-5a, Budget Procurement History and Planning

Date:  
June 2001

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
<b>Complete Round</b>										
FY 2000	General Dynamics Burlington, VT	SS/FP	OSC, Rock Island, IL	Feb-00	Aug-01	36	921	Y		Oct-98
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	Apr-02	Feb-04	31	938	Y		Oct-98

REMARKS: Competitively awarded five year (FY99-FY03) 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:

June 2001

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:

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							
Gross Cost	61.3	12.1	34.1	28.4	25.4							
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	61.3	12.1	34.1	28.4	25.4							
Initial Spares												
Total Proc Cost	61.3	12.1	34.1	28.4	25.4							
Flyaway U/C												
Wpn Sys Proc U/C		753.56250	725.25532	1182.91667	820.48387							

**Description:**

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

This system of aerial rockets is used by Army aircraft (AH-64 Apache, OH-58D Kiowa Warrior, and AH-1 Cobra 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. The warhead consists of two main parts, the nose and the base, which are fabricated using nodular pearlitic malleable or ferritic malleable cast iron. The nose end of the warhead is threaded to receive the M423 fuze and is loaded with 2.3 lbs of composition B4 explosive. The base section is fabricated from steel or cast iron and is threaded for attachment to the MK66 rocket motor. Upon detonation, the warhead fragments into thousands of small, high velocity fragments.

**Justification:**

This is a war reserve item and is also used for Special Forces training. The FY 2002 procurement maintains war reserve inventory and supports annual peacetime training requirements in accordance with the Army's procurement goals. The FY 01 funding also procures approximately 16K MK66 MOD 4 rocket motors to upgrade unserviceable assets in the tactical inventory.

TYPE CLASSIFICATION DATE: 26 February 1982

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

<b>Exhibit P-5, Weapon AMMO Cost Analysis</b>		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: June 2001		
<b>AMMO Cost Elements</b>	ID CD	<b>FY 00</b>			<b>FY 01</b>			<b>FY 02</b>			<b>FY 03</b>		
		TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
		\$000	x1000	\$	\$000	x1000	\$	\$000	x1000	\$	\$000	x1000	\$
<b>AMMUNITION HARDWARE</b>													
Complete Round		30190	47	642	15010	24	625	19525	31	630			
MK66 MOD4 Motor					6862	16	429						
<b>SubTotal AMMO Hardware</b>		<b>30190</b>			<b>21872</b>			<b>19525</b>					
<b>Production Support Costs</b>													
Production Engineering		1757			1453			1549					
<b>SubTotal Prod. Support</b>		<b>1757</b>			<b>1453</b>			<b>1549</b>					
<b>COST - Nonrecurring</b>													
Materiel Change		2140			5065			4361					
<b>SubTotal COST Nonrecurring</b>		<b>2140</b>			<b>5065</b>			<b>4361</b>					
<b>Total</b>		<b>34087</b>		<b>725</b>	<b>28390</b>		<b>1183</b>	<b>25435</b>		<b>820</b>			

## Exhibit P-5a, Budget Procurement History and Planning

Date:  
June 2001

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
<b>Complete Round</b>										
FY 2000	General Dynamics Burlington, VT	SS/FP	OSC, Rock Island, IL	Feb-00	Aug-01	47	642	Y		Oct-98
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	Apr-02	Feb-04	31	630	Y		Oct-98
<b>MK66 MOD4 Motor</b>										
FY 2001	General Dynamics Burlington, VT	SS/FP	OSC, Rock Island, IL	Dec-00	Apr-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:

June 2001

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:

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							
Gross Cost	429.7	72.4	71.3	88.5	79.8							
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	429.7	72.4	71.3	88.5	79.8							
Initial Spares												
Total Proc Cost	429.7	72.4	71.3	88.5	79.8							
Flyaway U/C												
Wpn Sys Proc U/C		469.84416	599.47899	598.05405	604.51515							

**Description:**

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

This system of aerial rockets is used by Army aircraft (AH-64 Apache, OH-58D Kiowa Warrior, and AH-1 Cobra 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 containing a mixture of potassium perchlorate and aluminum powder. The M274, with the MK66 Mod 4 rocket motor and electromagnetic radiation protection, can be fired by all aircraft. It is a key rocket due to its low cost, simple and reliable operation, day and night signature for scoring pilot proficiency, and non-hazardous dud feature which enables usage on new multipurpose range complexes. This item is Code A, approved for service use.

**Justification:**

This is a training unique item; not used in combat. Each pilot must fire live rockets to acquire and maintain attack helicopter gunnery skills. FY 2002 procurement supports all training schedules, initial qualification training for aviators, and builds a depot level in accordance with the Army's procurement goals. The M274 Signature Practice rocket is the preferred training munition at all ranges. The M274 Signature Practice rocket is safer to use, is cheaper, and has less of an environmental impact than high explosive rockets. At the same time, it allows peacetime training with rockets compatible with the new sterile, instrumented training ranges equipped with advanced sensors.

TYPE CLASSIFICATION DATE: 1986

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

<b>Exhibit P-5, Weapon AMMO Cost Analysis</b>		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: June 2001		
<b>AMMO Cost Elements</b>	ID CD	<b>FY 00</b>			<b>FY 01</b>			<b>FY 02</b>			<b>FY 03</b>		
		TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
		\$000	x1000	\$	\$000	x1000	\$	\$000	x1000	\$	\$000	x1000	\$
<b>AMMUNITION HARDWARE</b>													
Complete Round		64591	119	543	80161	148	542	70989	132	538			
<b>SubTotal AMMO Hardware</b>		<b>64591</b>			<b>80161</b>			<b>70989</b>					
<b>Production Support Costs</b>													
Production Engineering		4196			6178			6135					
<b>SubTotal Prod. Support</b>		<b>4196</b>			<b>6178</b>			<b>6135</b>					
<b>COST - Nonrecurring</b>													
Materiel Change		2551			2173			2672					
<b>SubTotal COST - Nonrecurring</b>		<b>2551</b>			<b>2173</b>			<b>2672</b>					
<b>Total</b>		<b>71338</b>		<b>599</b>	<b>88512</b>		<b>598</b>	<b>79796</b>		<b>605</b>			

## Exhibit P-5a, Budget Procurement History and Planning

Date:  
June 2001

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
<b>Complete Round</b>										
FY 2000	General Dynamics Burlington, VT	SS/FP	OSC, Rock Island, IL	Feb-00	Aug-01	119	543	Y		Oct-98
FY 2001	General Dynamics Burlington, VT	SS/FP	OSC, Rock Island, IL	Dec-00	Sep-02	148	542	Y		Oct-98
FY 2002	General Dynamics Burlington, VT	SS/FP	OSC, Rock Island, IL	Apr-02	Feb-04	132	538	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:

June 2001

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	11.9	16.0	17.4	18.2							
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	338.5	11.9	16.0	17.4	18.2							
Initial Spares												
Total Proc Cost	338.5	11.9	16.0	17.4	18.2							
Flyaway U/C												
Wpn Sys Proc U/C												

**Description:**

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

This budget line includes Demolition Munition All Types.

<b>Exhibit P-5, Weapon AMMO Cost Analysis</b>		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: June 2001		
<b>AMMO Cost Elements</b>	ID CD	<b>FY 00</b>			<b>FY 01</b>			<b>FY 02</b>			<b>FY 03</b>		
		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		220	14	15.71				6225	419	14.86			
Selective LtWt Attack Munition (SOF)		6741	3	2247.00			644		214.67				
Cap Blasting Non-Elec M7						36							
Cord Detonating Type 1		18			446	4180	0.11	54					
Fuze Blasting Time M700		50			316	1854	0.17	55					
Anti-Pers Obstacle Breaching System		580			6481	580	11.17	1969	66	29.83			
Charge Demo Shaped Clipped, M221		1625	168	9.67	1521	184	8.27	982	117	8.39			
Holder for Blasting Cap & Shock Tube M9						721	110	6.56	996	226	4.41		
Cap Blasting Non-Elec w/30 ft Shock Tube						738	37	19.95	776	42	18.48		
Cap Blasting Non-Elec w/500 ft Shock Tub						682	25	27.28	1564	50	31.28		
Cap Blasting Non-Elec w/1000ft Shock Tub		603	19	31.74	682	25	27.28	1564	50	31.28			
Cap Blasting Non-Elec Delay, M14		824	101	8.16	984	125	7.87						
Igniter Ti me Fuze and Shock Tube, M81		496	160	3.10	627	194	3.23	632	195	3.24			
Cap Blasting Inert Non-Elec w/500ft Shk		716	45	15.91				349	20	17.45			
Cap Blasting Non-Elec 10ft Shock Tube M1						277	60	4.62	282	66	4.27		
Cap Blasting Non-Elec 20 min Delay, M18		1167	91	12.82	1533	146	10.50	1575	140	11.25			
Igniter Electric Match, M79						120	20	6.00	53				
Fighting Position Excavator, M300		2000	1056	1.89	2961	1600	1.85						
Booster Demo Charge, M151		151	12	12.58				429	76	5.65			
Booster Demo Charge, M152		789	98	8.51				1583	228	6.94			
<b>Total</b>		<b>15980</b>			<b>17443</b>			<b>18168</b>					

# Exhibit P-40, Budget Item Justification Sheet

Date:

June 2001

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:

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		422							
Gross Cost	54.9	0.0	0.2		6.2							
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	54.9	0.0	0.2		6.2							
Initial Spares												
Total Proc Cost	54.9	0.0	0.2		6.2							
Flyaway U/C												
Wpn Sys Proc U/C												

**Description:**

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

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. FY 2002 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

<b>Exhibit P-5, Weapon AMMO Cost Analysis</b>		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: June 2001		
<b>AMMO Cost Elements</b>	ID CD	<b>FY 00</b>			<b>FY 01</b>			<b>FY 02</b>			<b>FY 03</b>		
		TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
		\$000	x1000	\$	\$000	x1000	\$	\$000	x1000	\$	\$000	x1000	\$
Load, Assemble, and Pack Comp C-4 Class 3 (LB)								1872	422	4.44			
								4204	557	7.55			
<b>SubTotal AMMO Hardware</b>								<b>6076</b>					
<b>Production Support Costs</b>													
Production Engineering		220						82					
Quality Assurance								11					
Interim Transportation								6					
Industrial Stock Support								50					
<b>SubTotal Prod. Support</b>		<b>220</b>						<b>149</b>					
<b>Total</b>		<b>220</b>						<b>6225</b>		<b>14.76</b>			

## Exhibit P-5a, Budget Procurement History and Planning

Date:  
June 2001

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
<b>Load, Assemble, and Pack</b> FY 2002	American Ordnance (MAAP) Milan, TN	C/FP	OSC, Rock Island, IL	Mar 2002	Jan 2003	422	4.44	Y		
<b>Comp C-4 Class 3 (LB)</b> FY 2002	Rona (Holston AAP) Arlington, VA	C/FP	OSC, Rock Island, IL	Mar 2002	Oct 2002	557	7.55	Y		

REMARKS:





# Exhibit P-40, Budget Item Justification Sheet

Date:

June 2001

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

P-1 Item Nomenclature  
SELECTIVE LTWT ATTACK MUNITION (SOF) (E52000)

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	9		3									
Gross Cost	8.8	0.9	6.7		0.6							
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	8.8	0.9	6.7		0.6							
Initial Spares												
Total Proc Cost	8.8	0.9	6.7		0.6							
Flyaway U/C												
Wpn Sys Proc U/C												

**Description:**

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

The Selectable Lightweight Attack Munition (SLAM) is a multipurpose munition designed to be readily portable and hand-emplaced against lightly armored infantry vehicles, parked aircraft, wheeled or tracked support vehicles, and ammunition or fuel storage sites. The SLAM can be used either day or night during all weather conditions. The SLAM has four operation modes: mine, side attack, timed or command demolition. The SLAM has a self destruct feature if no target presents itself in the required time during mine or side attack modes.

**Justification:**

The FY 2002 dollars will be used to fund engineering support.

Type Classification Date: June 1994 - Standard

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

<b>Exhibit P-5, Weapon AMMO Cost Analysis</b>		Appropriation/Budget Activity/Serial No. Procurement of Ammunition, Army / 1 / AMMUNITION			P-1 Line Item Nomenclature: SELECTIVE LTWT ATTACK MUNITION (SOF) (E52000)			Weapon System Type:			Date: June 2001		
<b>AMMO Cost Elements</b>	ID CD	<b>FY 00</b>			<b>FY 01</b>			<b>FY 02</b>			<b>FY 03</b>		
		TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
		\$000	x1000	\$	\$000	x1000	\$	\$000	x1000	\$	\$000	x1000	\$
Hardware		5521	3	1781									
<b>Subtotal</b>		<b>5521</b>											
<b>Production Support Costs</b>													
Production Engineering		400						224					
Quality Assurance		300						150					
Acceptance Testing		220											
Program Management		300						270					
<b>Subtotal</b>		<b>1220</b>						<b>644</b>					
<b>Total</b>		<b>6741</b>						<b>644</b>					

# Exhibit P-5a, Budget Procurement History and Planning

Date:  
June 2001

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

Weapon System Type:

P-1 Line Item Nomenclature:  
SELECTIVE LTWT ATTACK MUNITION (SOF) (E52000)

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
<b>Hardware</b> FY 2000	Alliant Techsystems Janesville, WI	Option	ARDEC	Sep 00	Dec 01	3	1781	Yes		

REMARKS:





# Exhibit P-40, Budget Item Justification Sheet

Date:

June 2001

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:

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	66							
Gross Cost			0.6	6.5	2.0							
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)			0.6	6.5	2.0							
Initial Spares												
Total Proc Cost			0.6	6.5	2.0							
Flyaway U/C												
Wpn Sys Proc U/C												

**Description:**

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

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. It is employed in combat operations to breach a lane through wire and anti-personnel mine obstacles. This system supports the Legacy-to-Objective transition path of the Transformation Campaign Plan (TCP).

**Justification:**

The APOBS will replace the Bangalore Torpedo for breaching complex wire and anti-personnel landmine obstacles.

Type Classification Date: December 2000 - LRIP

Type Classification Date: June 2001 - Standard

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

<b>Exhibit P-5, Weapon AMMO Cost Analysis</b>		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: June 2001		
<b>AMMO Cost Elements</b>	ID CD	<b>FY 00</b>			<b>FY 01</b>			<b>FY 02</b>			<b>FY 03</b>		
		TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
		\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000
<b>Hardware</b>													
1. APOBS System					3231	350	9						
2. APOBS Training Aid					2221	230	10	783	66	12			
3. Initial Spares								64	1	64			
<b>Subtotal</b>					<b>5452</b>			<b>847</b>					
<b>Production Support</b>													
Production Engineering		347			354			241					
Quality Assurance		58			102			112					
Lot Acceptance Testing					190			59					
Program Management		130			137			141					
Training & Maintenance		45			246			344					
ECO's								225					
<b>Subtotal</b>		<b>580</b>			<b>1029</b>			<b>1122</b>					
<b>Total</b>		<b>580</b>			<b>6481</b>			<b>1969</b>					

## Exhibit P-5a, Budget Procurement History and Planning

Date:  
June 2001

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 \$	Specs Avail Now?	Date Revsn Avail	RFP Issue Date
<b>1. APOBS System</b> FY 2001	Ensign-Bickford Simsbury, CT	Option/FP	Quantico, VA	Mar 01	Nov 01	350	9	Yes		
<b>2. APOBS Training Aid</b> FY 2001	Ensign-Bickford Simsbury, CT	Option/FP	Quantico, VA	Mar 01	Nov 01	230	10	Yes		
FY 2002	Ensign-Bickford Simsbury, CT	Option/FP	Quantico, VA	Jan 02	Sep 02	66	12	Yes		
<b>3. Initial Spares</b> FY 2002	Ensign-Bickford Simsbury, CT	Option/FP	Quantico, VA	Jan 02	May 02	1	64	Yes		

REMARKS:





# Exhibit P-40, Budget Item Justification Sheet

Date:

June 2001

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	21.7	13.9	23.0	25.7							
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	584.2	21.7	13.9	23.0	25.7							
Initial Spares												
Total Proc Cost	584.2	21.7	13.9	23.0	25.7							
Flyaway U/C												
Wpn Sys Proc U/C												

**Description:**

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

This budget line includes GRENADES, ALL TYPES

<b>Exhibit P-5, Weapon AMMO Cost Analysis</b>		Appropriation/Budget Activity/Serial No. Procurement of Ammunition, Army / 1 / AMMUNITION			P-1 Line Item Nomenclature: GRENADES, ALL TYPES (E34000)			Weapon System Type:			Date: June 2001		
<b>AMMO Cost Elements</b>	ID CD	<b>FY 00</b>			<b>FY 01</b>			<b>FY 02</b>			<b>FY 03</b>		
		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		5820	2042	2.85	4946	1908	2.59	5096	1717	2.97			
Grenade Hand Frag Delay M67		1337			4146	161	25.79	7676	283	27.10			
Grenade Hand Smoke Green M18		20			1626	62	26.34	2329	93	25.17			
Grenade Hand Smoke Yellow M18		145			2730	102	26.71	2808	110	25.48			
Grenade Hand Smoke Violet M18		21						2139	67	31.92			
Grenade Hand Smoke Tng M83		62			5322	236	22.55						
Grenade, Stun		1739	15	79.20	2336	26	89.85	2398	26	92.23			
Grenade, Launcher, Smk Screen XM90		4751	67	70.91	1940	27	71.85	3264	27	120.89			
<b>Total</b>		<b>13895</b>			<b>23046</b>			<b>25710</b>					

# Exhibit P-40, Budget Item Justification Sheet

Date:

June 2001

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:

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	1908	1717							
Gross Cost	76.1	1.9	5.8	4.9	5.1							
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	76.1	1.9	5.8	4.9	5.1							
Initial Spares												
Total Proc Cost	76.1	1.9	5.8	4.9	5.1							
Flyaway U/C												
Wpn Sys Proc U/C												

**Description:**

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

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 2002 procurement supports annual peacetime training and build a depot level in accordance with the Army's procurement goals.

TYPE CLASSIFICATION DATE: 1971

ACQUISITION MANAGER: OSC, Rock Island, Ill

<b>Exhibit P-5, Weapon AMMO Cost Analysis</b>		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: June 2001		
<b>AMMO Cost Elements</b>	ID CD	<b>FY 00</b>			<b>FY 01</b>			<b>FY 02</b>			<b>FY 03</b>		
		TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
		\$000	x1000	\$	\$000	x1000	\$	\$000	x1000	\$	\$000	x1000	\$
<b>AMMUNITION HARDWARE</b>													
Complete Round		5507	2042	2.70	4535	1908	2.38	4789	1717	2.79			
<b>SubTotal AMMO Hardware</b>		<b>5507</b>			<b>4535</b>			<b>4789</b>					
<b>Production Support Costs</b>													
Production Engineering		231			345			267					
Industrial Stock Support		82			66			40					
<b>SubTotal Prod. Support</b>		<b>313</b>			<b>411</b>			<b>307</b>					
<b>Total</b>		<b>5820</b>		<b>2.85</b>	<b>4946</b>		<b>2.59</b>	<b>5096</b>		<b>2.97</b>			

## Exhibit P-5a, Budget Procurement History and Planning

Date:  
June 2001

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
<b>Complete Round</b>										
FY 2000	Martin Elec Perry, FL	C/FP	OSC, Rock Island, IL	Apr 2000	Aug 2001	2042	2.70			
FY 2001	TBS	C/FP	OSC, Rock Island, IL	May 2001	Dec 2001	1908	2.38	Y		
FY 2002	TBS	C/FP	OSC, Rock Island, IL	Mar 2002	Dec 2002	1717	2.79	Y		

REMARKS: TBS - TO BE SELECTED





# Exhibit P-40, Budget Item Justification Sheet

Date:

June 2001

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:

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			161	283							
Gross Cost	132.6		1.3	4.1	7.7							
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	132.6		1.3	4.1	7.7							
Initial Spares												
Total Proc Cost	132.6		1.3	4.1	7.7							
Flyaway U/C												
Wpn Sys Proc U/C												

**Description:**

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

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.

**Justification:**

The FY 2002 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

<b>Exhibit P-5, Weapon AMMO Cost Analysis</b>		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: June 2001		
<b>AMMO Cost Elements</b>	ID CD	<b>FY 00</b>			<b>FY 01</b>			<b>FY 02</b>			<b>FY 03</b>		
		TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
		\$000	x1000	\$	\$000	x1000	\$	\$000	x1000	\$	\$000	x1000	\$
<b>AMMUNITION HARDWARE</b>													
Load, Assemble, and Pack					1464	161	9.11	2623	283	9.26			
Body Gren Mpts					1686	162	10.38	3281	286	11.47			
*Comp B Type I Grade A (LB)					170	72	2.35	299	127	2.35			
Fz Gren M213					843	163	5.17	1486	288	5.17			
<b>SubTotal AMMO Hardware</b>					<b>4163</b>			<b>7689</b>					
<b>Production Support Costs</b>													
Production Engineering		1337			65			215					
Interim Transportation					27			7					
Industrial Stock Support					61			64					
<b>SubTotal Production Support</b>		<b>1337</b>			<b>153</b>			<b>286</b>					
<b>Nonrecurring</b>													
Government Furnished Material					-170			-299					
<b>Subtotal</b>													
<b>Total</b>		<b>1337</b>			<b>4146</b>		<b>25.79</b>	<b>7676</b>		<b>27.10</b>			

# Exhibit P-5a, Budget Procurement History and Planning

Date:  
June 2001

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
<b>Load, Assemble, and Pack</b>										
FY 2001	TBS	C/FP	OSC, Rock Island, IL	Aug 2001	Mar 2002	161	9.11	Y		
FY 2002	TBS	C/FP	OSC, Rock Island, IL	Mar 2002	Mar 2003	283	9.26	Y		
<b>Body Gren Mpts</b>										
FY 2001	TBS	C/FP	OSC, Rock Island, IL	Aug 2001	Jan 2002	162	10.38	Y		
FY 2002	TBS	C/FP	OSC, Rock Island, IL	May 2002	N/A	286	11.47	Y		
<b>*Comp B Type I Grade A (LB)</b>										
FY 2001	Stock Issue	N/A	N/A	N/A	N/A	72				
FY 2002	Stock Issue	N/A	N/A	N/A	N/A	127				
<b>Fz Gren M213</b>										
FY 2001	TBS	C/FP	OSC, Rock Island, IL	Aug 2001	Jan 2002	163	5.17	Y		
FY 2002	TBS	C/FP	OSC, Rock Island, IL	May 2002	Jan 2003	288	5.17	Y		

REMARKS: TBS - To Be Selected  
\*Government Furnished Material





# Exhibit P-40, Budget Item Justification Sheet

Date:

June 2001

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

P-1 Item Nomenclature  
GRENADE HAND SMOKE TNG M83 (E69300)

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	695	207		236								
Gross Cost	22.5	8.2	0.1	5.3								
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	22.5	8.2	0.1	5.3								
Initial Spares												
Total Proc Cost	22.5	8.2	0.1	5.3								
Flyaway U/C												
Wpn Sys Proc U/C												

**Description:**

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

The M83 hand grenade contains approximately 1 pound of environmentally acceptable smoke mixture. The smoke mixture is initiated by a pyrotechnic delay-igniting fuze. After initiation, there is a 3 second delay after which a dense smoke cloud is produced to conceal troop, vehicle, or other march movements. The M83 training grenade is deployed in a similar manner as the M8 series of service smoke grenades. It is used by the individual soldier in squad, company, and battalion units. This item is Code A, approved for service use.

**Justification:**

This is a training unique item; not used in combat. This grenade is urgently needed to replace the current M8 hexachloroethane (HC) filled munition with a training safe version to reduce the hazard of troop exposure carcinogenic HC smoke. Procurement support annual peacetime training and builds a depot level in accordance with the Army's procurement goals.

TYPE CLASSIFICATION DATE:

1994

ACQUISITION MANAGER:

OSC, Rock Island, Ill

<b>Exhibit P-5, Weapon AMMO Cost Analysis</b>		Appropriation/Budget Activity/Serial No. Procurement of Ammunition, Army / 1 / AMMUNITION			P-1 Line Item Nomenclature: GRENADE HAND SMOKE TNG M83 (E69300)			Weapon System Type:			Date: June 2001		
<b>AMMO Cost Elements</b>	ID CD	<b>FY 00</b>			<b>FY 01</b>			<b>FY 02</b>			<b>FY 03</b>		
		TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
		\$000	x1000	\$	\$000	x1000	\$	\$000	x1000	\$	\$000	x1000	\$
<b>AMMUNITION HARDWARE</b>													
Complete Round					5227	236	22.15						
<b>SubTotal AMMO Hardware</b>					<b>5227</b>								
<b>Production Support Costs</b>													
Production Engineering		62			19								
Industrial Stock Support					76								
<b>SubTotal Prod. Support</b>		<b>62</b>			<b>95</b>								
<b>Total</b>		<b>62</b>			<b>5322</b>		<b>22.55</b>						

## Exhibit P-5a, Budget Procurement History and Planning

Date:  
June 2001

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

Weapon System Type:

P-1 Line Item Nomenclature:  
GRENADE HAND SMOKE TNG M83 (E69300)

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
<b>Complete Round</b> FY 2001	Pine Bluff Arsenal (PBA) Pine Bluff, AR	SS/FP	OSC, Rock Island, IL	Mar 2001	Mar 2002	236	22.15	Y		

REMARKS:





# Exhibit P-40, Budget Item Justification Sheet

Date:

June 2001

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	3.8	4.4	12.9	10.6							
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	334.0	3.8	4.4	12.9	10.6							
Initial Spares												
Total Proc Cost	334.0	3.8	4.4	12.9	10.6							
Flyaway U/C												
Wpn Sys Proc U/C												

**Description:**

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

This budget line includes SIGNALS ALL TYPES

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

<b>Exhibit P-5, Weapon AMMO Cost Analysis</b>		Appropriation/Budget Activity/Serial No. Procurement of Ammunition, Army / 1 / AMMUNITION			P-1 Line Item Nomenclature: SIGNALS, ALL TYPES (E46900)			Weapon System Type:			Date: June 2001		
<b>AMMO Cost Elements</b>	ID CD	<b>FY 00</b>			<b>FY 01</b>			<b>FY 02</b>			<b>FY 03</b>		
		TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
		\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000
SIGNAL KIT PERSONEL DISTRESS RED RP					1295	25	51.80	5					
SIGNAL SMOKE & ILLUM MK 124 MOD 0	27												
SIGNAL ILLUM GND WS CLUSTER M159					1110	31	35.79	1146	32	35.43			
SIGNAL ILLUM GND WS PARA M127A1	2613	73	35.84	2363	54	43.96	1812	49	36.73				
SIGNAL ILLUM GND GS CLUSTER M125A1	1309	37	35.31	1068	30	35.67	730	20	35.71				
FLARE SURFACE TRIP M49 SERIES	406												
SMOKE POT PRACTICE M8					7111	15	474.07	6918	17	406.94			
<b>Total</b>		<b>4355</b>			<b>12947</b>			<b>10611</b>					

# Exhibit P-40, Budget Item Justification Sheet

Date:

June 2001

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

P-1 Item Nomenclature  
SMOKE POT PRACTICE M8 (E62900)

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	34			15	17							
Gross Cost	14.2			7.1	6.9							
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	14.2			7.1	6.9							
Initial Spares												
Total Proc Cost	14.2			7.1	6.9							
Flyaway U/C												
Wpn Sys Proc U/C												

**Description:**

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

The M8 Smoke Pot is a five-gallon metal pail containing about 25 pounds of environmentally acceptable smoke mixture. It is initiated by a pyrotechnic delay igniting fuze. After ignition, about a 25 second delay, a dense smoke cloud is produced for screening purposes to conceal troop, vehicle, or other march movements. It is deployed in a similar manner as the service smoke pots, M4 series and M5. It is used by the individual soldier in squad, company and battalion units. This item is code B, not approved for service use.

**Justification:**

This training pot is urgently needed to replace the current M4A2 hexachlorethane (HC) filled munition with a training munition with a reduced hazard for troops exposed during training.

<b>Exhibit P-5, Weapon AMMO Cost Analysis</b>		Appropriation/Budget Activity/Serial No. Procurement of Ammunition, Army / 1 / AMMUNITION			P-1 Line Item Nomenclature: SMOKE POT PRACTICE M8 (E62900)			Weapon System Type:			Date: June 2001		
<b>AMMO Cost Elements</b>	ID CD	<b>FY 00</b>			<b>FY 01</b>			<b>FY 02</b>			<b>FY 03</b>		
		TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
		\$000	x1000	\$	\$000	x1000	\$	\$000	x1000	\$	\$000	x1000	\$
<b>AMMUNITION HARDWARE</b>													
Load, Assemble, and Pack					2150	15	143	2108	17	124			
Component					2387	16	149	2310	17	136			
Explosive					2212	16	138	2211	17	130			
<b>SubTotal AMMO Hardware</b>					<b>6749</b>			<b>6629</b>					
<b>Production Support Costs</b>													
Engineering Support					135		12	127		9			
Quality Assurance					16		1	7		1			
Acceptance Testing					79		5	39		4			
Interim Transportation					32		2	16		2			
Industrial Stock Support					100		19	100		19			
<b>SubTotal Production Support Costs</b>					<b>362</b>			<b>289</b>					
<b>Total</b>					<b>7111</b>			<b>6918</b>					

## Exhibit P-5a, Budget Procurement History and Planning

Date:  
June 2001

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

Weapon System Type:

P-1 Line Item Nomenclature:  
SMOKE POT PRACTICE M8 (E62900)

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
<b>Load, Assemble, and Pack</b>										
FY 2001	Pine Bluff Arsenal Pine Bluff, Arkansas	SS/GOGO	SBCCOM	JAN-01	MAY-02	15	143			
FY 2002	Pine Bluff Arsenal Pine Bluff, Arkansas	SS/GOGO	SBCCOM	JAN-02	MAY-03	17	124			
<b>Component</b>										
FY 2001	Pine Bluff Arsenal Pine Bluff, Arkansas	SS/GOGO	Pine Bluff Arsenal	JAN-01	MAY-02	16	149			
FY 2002	Pine Bluff Arsenal Pine Bluff, Arkansas	SS/GOGO	Pine Bluff Arsenal	JAN-02	MAY-03	17	136			
<b>Explosive</b>										
FY 2001	Pine Bluff Arsenal Pine Bluff, Arkansas	SS/GOGO	Pine Bluff Arsenal	JAN-01	MAY-02	16	138			
FY 2002	Pine Bluff Arsenal Pine Bluff, Arkansas	SS/GOGO	Pine Bluff Arsenal	JAN-02	MAY-03	17	130			

REMARKS:





# Exhibit P-40, Budget Item Justification Sheet

Date:

June 2001

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	3.7	2.3	3.0	3.4							
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	212.9	3.7	2.3	3.0	3.4							
Initial Spares												
Total Proc Cost	212.9	3.7	2.3	3.0	3.4							
Flyaway U/C												
Wpn Sys Proc U/C												

**Description:**

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

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.

<b>Exhibit P-5, Weapon AMMO Cost Analysis</b>		Appropriation/Budget Activity/Serial No. Procurement of Ammunition, Army / 1 / AMMUNITION			P-1 Line Item Nomenclature: SIMULATORS, ALL TYPES (E51200)			Weapon System Type:			Date: June 2001		
<b>AMMO Cost Elements</b>	ID CD	<b>FY 00</b>			<b>FY 01</b>			<b>FY 02</b>			<b>FY 03</b>		
		TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
		\$000	x1000	\$	\$000	x1000	\$	\$000	x1000	\$	\$000	x1000	\$
SIMULATOR PROJ AIRBURST M74		79			1088	71	15.27						
SIMULATOR PROJ GND BURST M115A2		52											
SIMULATOR BOOBY TRAP FLASH M117		145	19	7.49	72								
SIMULATOR HAND GRENADE M116A1		152	13	11.30	679	175	3.89	679	171	3.97			
SIMULATOR TARGET HIT M25		62											
SIMULATOR ANTTITANK M27		72											
SIMULATOR MAIN TANK GUN XM28		987	285	3.46	1187	429	2.77	1724	1040	1.66			
SIMULATOR DIR/INDIR FIRE CUE XM29		725						1006	150	6.71			
<b>Total</b>		<b>2274</b>			<b>3026</b>			<b>3409</b>					

# Exhibit P-40, Budget Item Justification Sheet

Date:

June 2001

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	6.7	6.9							
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	765.3	3.8	3.4	6.7	6.9							
Initial Spares												
Total Proc Cost	765.3	3.8	3.4	6.7	6.9							
Flyaway U/C												
Wpn Sys Proc U/C												

**Description:**

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

This budget line includes all Ammo Components/Support Items.

<b>Exhibit P-5, Weapon AMMO Cost Analysis</b>		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: June 2001		
<b>AMMO Cost Elements</b>	ID CD	<b>FY 00</b>			<b>FY 01</b>			<b>FY 02</b>			<b>FY 03</b>		
		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		2293 1071			5736 953			5894 980					
<b>Total</b>		<b>3364</b>			<b>6689</b>			<b>6874</b>					

# Exhibit P-40, Budget Item Justification Sheet

Date:

June 2001

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	2.7	2.3	5.7	5.9							
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	503.0	2.7	2.3	5.7	5.9							
Initial Spares												
Total Proc Cost	503.0	2.7	2.3	5.7	5.9							
Flyaway U/C												
Wpn Sys Proc U/C												

**Description:**

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

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:

June 2001

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	2.4	1.9	4.3	5.0							
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	64.1	2.4	1.9	4.3	5.0							
Initial Spares												
Total Proc Cost	64.1	2.4	1.9	4.3	5.0							
Flyaway U/C												
Wpn Sys Proc U/C												

**Description:**

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

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 2002 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:

June 2001

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	772.0	9.8	13.3	10.1	11.0							
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	772.0	9.8	13.3	10.1	11.0							
Initial Spares												
Total Proc Cost	772.0	9.8	13.3	10.1	11.0							
Flyaway U/C												
Wpn Sys Proc U/C												

**Description:**

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

This budget line includes MISCELLANEOUS AMMUNITION ITEMS UNDER \$5M

<b>Exhibit P-5, Weapon AMMO Cost Analysis</b>		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: June 2001		
<b>AMMO Cost Elements</b>	ID CD	<b>FY 00</b>			<b>FY 01</b>			<b>FY 02</b>			<b>FY 03</b>		
		TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
		\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000
CTG 10 GAUGE BLANK		16			94	81	1.15	96	124	0.77			
CTG 12 GAUGE SHOTGUN 00 BUCKSHOT								101	279	0.36			
CTG CAL .22 LR MATCH F/PISTOL													
CTG .30 CAL BLANK		1140	4168	0.27	561	1772	0.32	2453	10625	0.23			
RIOT CONTROL AGENT CS CAPSULE					20	23	0.85	239	276	0.88			
CTG 12 GAUGE NON-LETHAL XM1012					936	137	6.83						
CTG 12 GAUGE CROWD DISPERSAL XM1013		921	126	7.31									
FUZE ARTY MOUT MK 399 MOD 1		190			194			196					
AMMUNITION PROGRAM SUPPORT		1002			4372			4578					
USAMTU FT BENNING		1200			342			353					
NEW EQUIPMENT TRAINING		671			87			92					
LINE CHARGE INERT M68A2 F/MICLIC		2000						117					
RIFLE LAUNCHED ENTRY MUNITION					3447	2000	1.72	2793	2300	1.21			
CTG MORTAR 81MM HE M821 W/MO FUZE		2000											
LAKE CITY AAP CONTRACT CLOSEOUT COSTS		4111											
<b>Total</b>		<b>13251</b>			<b>10053</b>			<b>11018</b>					

# Exhibit P-40, Budget Item Justification Sheet

Date:

June 2001

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	9.6	9.4	8.8							
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	89.6	10.3	9.6	9.4	8.8							
Initial Spares												
Total Proc Cost	89.6	10.3	9.6	9.4	8.8							
Flyaway U/C												
Wpn Sys Proc U/C												

**Description:**

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

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:

June 2001

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	5.2	6.8	5.1	5.2							
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	723.6	5.2	6.8	5.1	5.2							
Initial Spares												
Total Proc Cost	723.6	5.2	6.8	5.1	5.2							
Flyaway U/C												
Wpn Sys Proc U/C												

**Description:**

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

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) or Defense Contract Management Agencies; i.e., Procedure A and B contractors to a CONUS depot, customer, 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 PPWR (Preposition War Reserves) Europe and Korea; Training Europe/Korea and WRSA (War Reserve Support Allies) Korea/Thailand.

# Exhibit P-40, Budget Item Justification Sheet

Date:

June 2001

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	32.2							
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)		125.2		5.7	32.2							
Initial Spares												
Total Proc Cost		125.2		5.7	32.2							
Flyaway U/C												
Wpn Sys Proc U/C												

**Description:**

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

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.

**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.

<b>Exhibit P-5, Weapon AMMO Cost Analysis</b>		Appropriation/Budget Activity/Serial No. Procurement of Ammunition, Army / 1 / AMMUNITION			P-1 Line Item Nomenclature: CLOSEOUT LIABILITIES (EA8500)			Weapon System Type:			Date: June 2001		
<b>AMMO Cost Elements</b>	ID CD	<b>FY 00</b>			<b>FY 01</b>			<b>FY 02</b>			<b>FY 03</b>		
		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					5712			27183					
RADFORD AAP CONTRACT CLOSEOUT COSTS								5030					
<b>Total</b>					<b>5712</b>			<b>32213</b>					

# Exhibit P-40, Budget Item Justification Sheet

Date:

June 2001

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	4765.3	45.6	48.5	50.3	57.3							
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	4765.3	45.6	48.5	50.3	57.3							
Initial Spares												
Total Proc Cost	4765.3	45.6	48.5	50.3	57.3							
Flyaway U/C												
Wpn Sys Proc U/C												

**Description:**

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

This budget line includes Provision of Industrial Facilities (EP1200)

# Exhibit P-40, Budget Item Justification Sheet

Date:

June 2001

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	45.6	48.5	50.3	57.3							
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	3712.8	45.6	48.5	50.3	57.3							
Initial Spares												
Total Proc Cost	3712.8	45.6	48.5	50.3	57.3							
Flyaway U/C												
Wpn Sys Proc U/C												

**Description:**

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

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 02
Environmental	\$14.1
Production Support	\$43.2
T O T A L	\$57.3

**Justification:**

Funds are used for the establishment, augmentation, and improvement of production capability for items procured under the ammunition appropriations. Includes 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:

June 2001

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</u>						
Army Research, Development, and Engineering Center	Production Base Readiness Support	5003040	2000			
Holston Army Ammunition Plant	Explosive Manufacturing Alternatives Team (XMAT) Facility Initiative	5XX1000	18641	14069	11440	
Iowa , Lone Star, Milan and Kansas Ammunition Plant	Load, Assemble and Pack - Capital Investments/Facility Initiatives	5XX3399	7721	4137	24590	
Iowa Army Ammunition Plant	Renovate Buildings 100-101	5003333	1142			
Iowa Army Ammunition Plant	Install 5 Dry-Type Sprinklers, Yard L	5003334	759			
Iowa Army Ammunition Plant	Refurbish Mathes Lake Dam	5003349	398			
Iowa Army Ammunition Plant	120mm Tank Line of the Future	5003403	5400			
Iowa Army Ammunition Plant	Install Steam Line to Line 3A from Main Heating Plant	5012998		3964		
Iowa Army Ammunition Plant	Expand Melt Capacity, Line 3A	5013395		3000		
Radford Army Ammunition Plant	Replace Acid Tank Aluminum-1 (AL-1), Acid Area	5013391		1187		
Radford Army Ammunition Plant	Improvements for Multi-Base Production	5013402		3700		
Radford Army Ammunition Plant	Capital Investment Plan/Facility Initiatives	5XX3407	1622	2647	4921	
Riverbank Army Ammunition Plan	Large Caliber Deep-Drawn Cartridge Cases	5003311	2800			
Riverbank Army Ammunition Plan	Activation of Grenade Metal Parts Line	5013408		3000		
Various Army Ammunition Plants	Engineering in Support of Industrial Facilities	5XX3046	944	1070	1222	

**Exhibit P-40C, Budget Item Justification Sheet**

Date:

June 2001

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>						
X-Facility	Medium Caliber Facility Initiatives	5033398				
Yuma Proving Gnd/Aberdeen Test Center	Production Support and Equipment Replacement (PSR)	5XX5060	1191	1182	999	
<b>Subtotal - Production</b>			<b>42,618</b>	<b>37,956</b>	<b>43,172</b>	<b>0</b>
<u>Environmental</u>						
Iowa Army Ammunition Plant	Pink Water Treatment, 3A-05-2	5013344		1385		
Iowa, Lone Star, Milan and Kansas Army Ammunition Plants	Load, Assmble and Pack Facilities - Environmental Upgrades	5XX3399			6955	
Lone Star Army Ammunition Plant	Sanitary Sewer Collection System	5002955	150			
Milan Army Ammunition Plant	Rehabilitate/Replace Sewage Collection System	5013384		1843		
Milan Army Ammunition Plant	Boiler Conversion at K-Line	5013392		1567		
Milan Army Ammunition Plant	Upgrade Sewage Treatment Plant/Rehabilitate Main Sewage Treatment Collection Lines	5XX2943	4099	1579		
Radford Army Ammunition Plant	Dike Repairs	5012924		2489		
Radford Army Ammunition Plant	Acid Sewer System Upgrade	5012925		3463		

**Exhibit P-40C, Budget Item Justification Sheet**

Date:

June 2001

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>						
Radford Army Ammunition Plant	Capital Improvement Plan - Environmental Upgrades	5XX3407			7150	
Scranton Army Ammunition Plant	Upgrade Plant Drainage System	5002986	1500			
Scranton Army Ammunition Plant	Seal Waste Oil Pits, Forge Shops, and Heat Treat, Phase II	5XX3404	125			
<b>Subtotal - Environmental</b>			<b>5,874</b>	<b>12,326</b>	<b>14,105</b>	<b>0</b>
<b>Total Industrial Facilities</b>			<b>48,492</b>	<b>50,282</b>	<b>57,277</b>	<b>0</b>

**Exhibit P-25 Industrial Facilities Cost Analysis (Dollars in Thousands)**

1. Date: June 2001

2. Project Title/Type Medium Caliber Facility Initiatives		3. End Item Supported Model Medium Caliber	
4. Project Number 5033398	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						
					I. Related Projects						
					Project Number	Title	FY & Appn	Value (\$ Mil)	Facing	Start Date	Compl Date
<b>A. Construction Cost</b>						Not Applicable					
<b>B. Equipment Costs</b> (Individual equipment cost should be specified for all equipment costing more that \$0.5 Million)											
1.											
2.											
3.											
<b>Subtotal Equipment Cost</b>											
<b>C. Equipment Installation Cost</b>											
<b>D. Contractor Support Cost</b>											
<b>E. Corps of Engineers Support Cost</b>											
<b>F. Other In-houses Support Costs</b>											
<b>Total Facility Project Cost</b>											
<b>G. Other Costs</b>											
1. Facility Prove-out Cost											
2. Military Construction Appn.											
					<b>J. Principal Milestones</b>					<b>Month &amp; Year</b>	
					1. Concept Design Complete					<u>Not Applicable</u>	
					2. Final Design Complete					<u>Not Applicable</u>	
					3. Initial/Final Project Award					<u>Not Applicable</u>	
					4. Construction Complete					<u>Not Applicable</u>	
					5. Equipment Installation Complete					<u>Not Applicable</u>	
					6. Prove Out Begins					<u>Not Applicable</u>	
					7. Prove Out Complete					<u>Not Applicable</u>	

**Narrative Explanation**

This project is required to assure necessary facilities are available to meet peacetime requirements for medium caliber items at the best cost and quality, and on time delivery of all Department of Defense (DOD) customers. In addition, this project will result in having a capacity that meets replenishment requirements.

<b>Exhibit P-25 Industrial Facilities Cost Analysis (Dollars in Thousands)</b>	1. Date: June 2001
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2. Project Title/Type Explosive Manufacturing Alternatives Team (XMAT) Facility Initiative	3. End Item Supported Model Research Department Explosive (RDX)/High Melt Explosive (HMX)
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4. Project Number 5XX1000	5. Annual Capacity Before (1-8-5) Not Applicable	6. Annual Capacity After (1-8-5) Not Applicable
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Element of Cost	FY 00	FY 01	FY 02	FY 03	H. Facility											
<b>A. Construction Cost</b>  <b>B. Equipment Costs</b> (Individual equipment cost should be specified for all equipment costing more that \$0.5 Million)  1.  2.  3.  <b>Subtotal Equipment Cost</b>  <b>C. Equipment Installation Cost</b> <b>D. Contractor Support Cost</b> <b>E. Corps of Engineers Support Cost</b> <b>F. Other In-houses Support Costs</b> <b>Total Facility Project Cost</b>  <b>G. Other Costs</b> 1. Facility Prove-out Cost 2. Military Construction Appn.	18641	14069	11440		1. Name <u>Holston Army Ammunition Plant</u>											
					2. Location <u>Kingsport, Tennessee</u>											
					3. Type (GOGO, GOCO, COCO) <u>GOCO</u>											
					<b>I. Related Projects</b>											
										Project Number	Title	FY & Appn	Value (\$ Mil)	Facing	Start Date	Compl Date
										1000	XMAT Facility Initiative	FY 00	18.641	No	N/A	N/A
										1000	XMAT Facility Initiative	FY 01	14.069	No	N/A	N/A
										<b>J. Principal Milestones</b>			<b>Month &amp; Year</b>			
										1. Concept Design Complete			<u>Not Applicable</u>			
					2. Final Design Complete			<u>Not Applicable</u>								
					3. Initial/Final Project Award			<u>Not Applicable</u>								
					4. Construction Complete			<u>Not Applicable</u>								
					5. Equipment Installation Complete			<u>Not Applicable</u>								
					6. Prove Out Begins			<u>Not Applicable</u>								
					7. Prove Out Complete			<u>Not Applicable</u>								

**Narrative Explanation**

This project provides funding for the operational costs at Holston Army Ammunition Plant. Operational costs include all property management costs such as maintenance, facilitization, environmental, safety, security, traffic management, readiness/reactivation/replenishment planning, and support of the on-site Government staff.

**Exhibit P-25 Industrial Facilities Cost Analysis (Dollars in Thousands)**

1. Date: June 2001

2. Project Title/Type Engineering in Support of Industrial Facilities		3. End Item Supported Model Multiple	
4. Project Number 5XX3046	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	<b>H. Facility</b>							
<b>A. Construction Cost</b>  <b>B. Equipment Costs</b> (Individual equipment cost should be specified for all equipment costing more that \$0.5 Million)  1.  2.  3.  <b>Subtotal Equipment Cost</b>  <b>C. Equipment Installation Cost</b>  <b>D. Contractor Support Cost</b>  <b>E. Corps of Engineers Support Cost</b> 541      871      612  <b>F. Other In-houses Support Costs</b> 403      199      610  <b>Total Facility Project Cost</b> 944      1070      1222  <b>G. Other Costs</b> 1. Facility Prove-out Cost 2. Military Construction Appn.					1. Name <u>Various Army Ammunition Plants</u> 2. Location <u>Multiple</u> 3. Type (GOGO, GOCO, COCO) <u>Multiple</u>							
	<b>I. Related Projects</b>											
						Project Number	Title	FY & Appn	Value (\$ Mil)	Facing	Start Date	Compl Date
							Not Applicable					
					<b>J. Principal Milestones</b>					<b>Month &amp; Year</b>		
					1. Concept Design Complete					<u>Not Applicable</u>		
					2. Final Design Complete					<u>Not Applicable</u>		
					3. Initial/Final Project Award					<u>Not Applicable</u>		
					4. Construction Complete					<u>Not Applicable</u>		
					5. Equipment Installation Complete					<u>Not Applicable</u>		
					6. Prove Out Begins					<u>Not Applicable</u>		
					7. Prove Out Complete					<u>Not Applicable</u>		

**Narrative Explanation**

This project will provide for process design specifications, procurement packages, design reviews, design related analyses, and where necessary provides for initiation/continuation of equipment/construction concept and final design, incorporation of engineering change proposals (ECPs), preparation of environmental evaluation to determine if a categorical exclusion to the requirement for an environmental assessment (EA) can be made, and other design related efforts allowable under existing regulations deemed necessary to assure efficient and timely execution of facility projects. Provides for production base/technology assessments and pilot scale demonstrations for affecting cost effective producability of ammunition.

**Exhibit P-25 Industrial Facilities Cost Analysis (Dollars in Thousands)**

1. Date: June 2001

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						
<b>A. Construction Cost</b>	4302	3696	20972		2. Location Various						
<b>B. Equipment Costs</b> (Individual equipment cost should be specified for all equipment costing more that \$0.5 Million)	2462		680		3. Type (GOGO, GOCO, COCO) GOCO						
					I. Related Projects						
					Project Number	Title	FY & Appn	Value (\$ Mil)	Facing	Start Date	Compl Date
1.					Not Applicable						
2.											
3.											
<b>Subtotal Equipment Cost</b>	<b>2462</b>		<b>680</b>								
<b>C. Equipment Installation Cost</b>	669	382	1231								
<b>D. Contractor Support Cost</b>	128	59	427								
<b>E. Corps of Engineers Support Cost</b>	160		1280								
<b>F. Other In-houses Support Costs</b>			18								
<b>Total Facility Project Cost</b>	<b>7721</b>	<b>4137</b>	<b>24608</b>		J. Principal Milestones						
<b>G. Other Costs</b>							Month & Year				
1. Facility Prove-out Cost							1. Concept Design Complete <u>Jan 00</u>				
2. Military Construction Appn.							2. Final Design Complete <u>Aug 00</u>				
							3. Initial/Final Project Award <u>Jan 02/Jan 02</u>				
							4. Construction Complete <u>Sep 02</u>				
							5. Equipment Installation Complete <u>Not Applicable</u>				
							6. Prove Out Begins <u>Not Applicable</u>				
							7. Prove Out Complete <u>Not Applicable</u>				

**Narrative Explanation**

Project efforts include correction of infrastructure in the areas of electrical service, water mains/distribution systems, fire alarm systems and heating systems. Replace deteriorated leaking roofs, that are beyond economical repair, perform repairs to railroad lines at plants, repair/resurface roads that create a safety hazard due to explosive loads transported and replace production equipment which is obsolete and requires extensive maintenance. Includes sewer rehabilitation and upgrades to sediment basin at high explosive demolition ground.

**Exhibit P-25 Industrial Facilities Cost Analysis (Dollars in Thousands)**

1. Date: June 2001

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													
					I. Related Projects													
					1. Name	Iowa, Lone Star, Milan and Kansas Army Ammunition Plants												
					2. Location	Various												
					3. Type (GOGO, GOCO, COCO)	GOCO												
					J. Principal Milestones													
									Month & Year									
					1. Concept Design Complete				Not Applicable									
					2. Final Design Complete				Not Applicable									
					3. Initial/Final Project Award				Nov 01/Jan 02									
					4. Construction Complete				Oct 02									
					5. Equipment Installation Complete				Nov 02									
					6. Prove Out Begins				Not Applicable									
					7. Prove Out Complete				Not Applicable									
<b>A. Construction Cost</b>			6237															
<b>B. Equipment Costs</b> (Individual equipment cost should be specified for all equipment costing more that \$0.5 Million)			287															
1.																		
2.																		
3.																		
<b>Subtotal Equipment Cost</b>			<b>287</b>															
<b>C. Equipment Installation Cost</b>			145															
<b>D. Contractor Support Cost</b>			195															
<b>E. Corps of Engineers Support Cost</b>			91															
<b>F. Other In-houses Support Costs</b>																		
<b>Total Facility Project Cost</b>			<b>6955</b>															
<b>G. Other Costs</b>																		
1. Facility Prove-out Cost																		
2. Military Construction Appn.																		

**Narrative Explanation**  
 Corrects environmental related problems to bring plants into compliance with state and federal criteris. Includes sewer rehabilitation and upgrades to sediment basin at high explosive demolition ground.

**Exhibit P-25 Industrial Facilities Cost Analysis (Dollars in Thousands)**

1. Date: June 2001

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						
<b>Element of Cost</b>	<b>FY 00</b>	<b>FY 01</b>	<b>FY 02</b>	<b>FY 03</b>	<b>H. Facility</b>						
<b>A. Construction Cost</b>	749	773	4477		1. Name <u>Radford Army Ammunition Plant</u>						
<b>B. Equipment Costs</b> (Individual equipment cost should be specified for all equipment costing more that \$0.5 Million)	400	1089			2. Location <u>Radford, Virginia</u>						
1.					3. Type (GOGO, GOCO, COCO) <u>GOCO</u>						
2.					<b>I. Related Projects</b>						
3.					Project Number	Title	FY & Appn	Value (\$ Mil)	Facing	Start Date	Compl Date
						Not Applicable					
<b>Subtotal Equipment Cost</b>	<b>400</b>	<b>1089</b>			<b>J. Principal Milestones</b>						
<b>C. Equipment Installation Cost</b>	276	595			1. Concept Design Complete <u>Not Applicable</u>						
<b>D. Contractor Support Cost</b>	149	149	168		2. Final Design Complete <u>Not Applicable</u>						
<b>E. Corps of Engineers Support Cost</b>	48	41	255		3. Initial/Final Project Award <u>Jan-02/Sep02</u>						
<b>F. Other In-houses Support Costs</b>			21		4. Construction Complete <u>Not Applicable</u>						
<b>Total Facility Project Cost</b>	<b>1622</b>	<b>2647</b>	<b>4921</b>		5. Equipment Installation Complete <u>Not Applicable</u>						
<b>G. Other Costs</b>					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 provides for capital investments in areas such as Hazardous Waste Tanks for Wastewater Plants and replacement of walls/joints at coal storage area. FY 2003 provides for propellant and explosives facility initiatives.

**Exhibit P-25 Industrial Facilities Cost Analysis (Dollars in Thousands)**

1. Date: June 2001

2. Project Title/Type Capital Improvement Plan - Environmental Upgrades		3. End Item Supported Model Propellants and Explosives (Nitroglycerin and Nitrocellulose)	
4. Project Number 5XX3407	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							
					I. Related Projects							
					Project Number	Title	FY & Appn	Value (\$ Mil)	Facing	Start Date	Compl Date	
<b>A. Construction Cost</b>					6532	1. Name <u>Radford Army Ammunition Plant</u>						
<b>B. Equipment Costs</b> (Individual equipment cost should be specified for all equipment costing more that \$0.5 Million)						2. Location <u>Radford, Virginia</u>						
1.						3. Type (GOGO, GOCO, COCO) <u>GOCO</u>						
2.												
3.												
<b>Subtotal Equipment Cost</b>												
<b>C. Equipment Installation Cost</b>												
<b>D. Contractor Support Cost</b>						201						
<b>E. Corps of Engineers Support Cost</b>						392						
<b>F. Other In-houses Support Costs</b>						25						
<b>Total Facility Project Cost</b>					<b>7150</b>							
<b>G. Other Costs</b>					<b>J. Principal Milestones</b>							
1. Facility Prove-out Cost					1. Concept Design Complete <u>Not Applicable</u>							
2. Military Construction Appn.					2. Final Design Complete <u>Not Applicable</u>							
					3. Initial/Final Project Award <u>Jan 02/Feb 02</u>							
					4. Construction Complete <u>April 03</u>							
					5. Equipment Installation Complete <u>Not Applicable</u>							
					6. Prove Out Begins <u>Not Applicable</u>							
					7. Prove Out Complete <u>Not Applicable</u>							

**Narrative Explanation**

Project supports the Acid Wastewater Treatment Facility in order to bring in compliance with hazardous waste regulations and for secondary containment of storage tanks in active facilities to prevent release of fuel, used oil, corrosives and other hazardous materials into the environment.

**Exhibit P-25 Industrial Facilities Cost Analysis (Dollars in Thousands)**

1. Date: June 2001

2. Project Title/Type Production Support and Equipment Replacement (PSR)		3. End Item Supported Model Initial Production Acceptance and Product Improvements for Ammunition	
4. Project Number 5XX5060	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						
					I. Related Projects						
					Project Number	Title	FY & Appn	Value (\$ Mil)	Facing	Start Date	Compl Date
<b>A. Construction Cost</b>											
<b>B. Equipment Costs</b> (Individual equipment cost should be specified for all equipment costing more that \$0.5 Million)	1191	1182	999								
1.											
2.											
3.											
<b>Subtotal Equipment Cost</b>	<b>1191</b>	<b>1182</b>	<b>999</b>								
<b>C. Equipment Installation Cost</b>											
<b>D. Contractor Support Cost</b>											
<b>E. Corps of Engineers Support Cost</b>											
<b>F. Other In-houses Support Costs</b>											
<b>Total Facility Project Cost</b>	<b>1191</b>	<b>1182</b>	<b>999</b>								
<b>G. Other Costs</b>											
1. Facility Prove-out Cost											
2. Military Construction Appn.											
					J. Principal Milestones						
					1. Concept Design Complete	Not Applicable					
					2. Final Design Complete	Not Applicable					
					3. Initial/Final Project Award	Dec 01/Apr 02					
					4. Construction Complete	Not Applicable					
					5. Equipment Installation Complete	Aug 02					
					6. Prove Out Begins	Not Applicable					
					7. Prove Out Complete	Not Applicable					

**Narrative Explanation**

Yuma Proving Ground and Aberden Test Center perform and report results of production accepptance test for various ammunition end items. The funds at Aberdeen will be used for environmental emulation for simulated exposure and digital data acquisition equipment. At Yuma funds will replace reggedized instrumentation van housing instrumentation used to collect pressure, velocity, fuze time, recoil and infrared tracking instruments and portable digital radiography equipment to x-ray test projectiles and unexploded ordnance.

# Exhibit P-40, Budget Item Justification Sheet

Date:

June 2001

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	23.2	10.6	3.2	13.8							
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	551.5	23.2	10.6	3.2	13.8							
Initial Spares												
Total Proc Cost	551.5	23.2	10.6	3.2	13.8							
Flyaway U/C												
Wpn Sys Proc U/C												

**Description:**

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

This line provides for the preserving, storing, and disposing of industrial facilities and equipment that are no longer required to support current production. Funding is required for decontamination (\$12.2M in FY02), Layaway (\$0.1M in FY 02), and Modified Caretaker (\$1.5 in FY 02).

**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:

June 2001

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>
Badger Army Ammunition Plant Baraboo, Wisconsin	Downsize (DS) - Disposal of Facilities	8104	1.860	0.000
Indiana Army Ammunition Plant Charlestown, Indiana	Downsize (DS) - 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	0.000
Iowa Army Ammunition Plant (AAP), Milan AAP, Lone Star AAP, Pine Bluff Arsenal	Retain (RT) - Layaway (Lwy) and Downsize (DS)Minor Efforts less than \$75K	8000	0.129	0.000
Joliet Army Ammunition Plant Joliet, Illinois	Downsize (DS) - Disposal of Facilities/Removal of Safety Hazards from Foundations	8216	2.950	0.000
Kansas Army Ammunition Plant Parsons, Kansas	Downsize (DS) - Appraisal Prior to Sale of Property	8215	0.000	0.000
Lone Star Army Ammunition Plant Texarkana, Texas	Downsize (DS) - Transition Excess Equipment to Modified Caretaker - Area C	8315	0.000	0.000
Longhorn Army Ammunition Plant Marshall, Texas	Downsize (DS) - Remove Unsafe Buildings	8026	0.000	0.000
Milan Army Ammunition Plant Milan, Tennessee	Downsize (DS) - Transition Excess Mortar Capability to Modified Caretaker.	8305	0.000	0.000

**Exhibit P-40C, Budget Item Justification Sheet**

Date:

June 2001

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>
Pine Bluff Arsenal Pine Bluff, Arkansas	Retain (RT) - Layaway Miscellaneous M825 Production Equipment and Facilities.	8011	0.000	0.000
Pine Bluff Arsenal Pine Bluff, Arkansas	Downsize (DS) - Disposal of Excess Property	8815	0.000	0.000
Radford Army Ammunition Plant Radford, Virginia	Retain (RT) - Layaway/Caretaker of Miscellaneous Facilities	8219	0.000	0.000
Radford Army Ammunition Plant Radford, Virginia	Downsize (DS) - Transition to Modified Caretaker Horseshoe Area - C Line	8309	1.281	0.000
Ravenna Army Ammunition Plant Ravenna, Ohio	Downsize (DS) - Decontaminate/Dispose of Excess Facilities	8114	3.781	0.000
Sunflower Army Ammunition Plant Desoto, Kansas	Downsize (DS) - Thermally Decompose Underground Sewers	8608	0.000	0.000
Twin Cities Army Ammunition Plant Arden Hills, Minnesota	Downsize (DS) - Decontamination/Disposal of Facilities	8211	0.000	0.000
Volunteer Army Ammunition Plant Chattanooga, Tennessee	Downsize (DS) - Environmental Efforts for Disposal	8510	1.449	0.000
	Total		13.815	0.000

# Exhibit P-40, Budget Item Justification Sheet

Date:

June 2001

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	14.3	13.6	12.2	10.8							
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	390.4	14.3	13.6	12.2	10.8							
Initial Spares												
Total Proc Cost	390.4	14.3	13.6	12.2	10.8							
Flyaway U/C												
Wpn Sys Proc U/C												

**Description:**

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

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 02 - \$3.7M)
- (2) Inactive Production Lines/Areas at Inactive Plants (FY 02 - \$7.1M)

**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, includes a fair share of the recurring overhead costs such as grounds maintenance, fire protection, plant security, and administrative support.

<b>Exhibit P-5, Weapon AMMO Cost Analysis</b>		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: June 2001		
<b>AMMO Cost Elements</b>	ID CD	<b>FY 00</b>			<b>FY 01</b>			<b>FY 02</b>			<b>FY 03</b>		
		TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
		\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000
<b>INACTIVE LINES AT ACTIVE PLANTS</b>													
Crane Army Ammunition Activity		78			79			80					
Holston Army Ammunition Plant (AAP)		1756			1705								
Iowa AAP		476			320			502					
Lone Star AAP		270			270			250					
McAlester AAP		434			442			450					
Milan AAP		241			166			150					
Pine Bluff Arsenal		700			700			700					
Radford AAP		1729			1500			950					
Seneca/Hawthorne Army Depot		33			528			655					
<b>SUBTOTAL</b>		<b>5717</b>			<b>5710</b>			<b>3737</b>					
<b>INACTIVE PLANTS</b>													
Badger AAP		1076			750			950					
Cornhusker AAP		50			50			20					
Indiana AAP		887			300			300					
Joliet AAP		84			86			170					
Longhorn AAP		250			422			400					
Louisiana AAP		1000			800			800					
Mississippi AAP		787											
Ravenna AAP		300			150			125					
Riverbank AAP		956			831			1100					
Scranton AAP		272			224								
Sunflower AAP		600			737			1180					
Twin Cities AAP		288			210			220					
Volunteer AAP		1320			1885			1800					
<b>SUBTOTAL</b>		<b>7870</b>			<b>6445</b>			<b>7065</b>					
<b>Total</b>		<b>13587</b>			<b>12155</b>			<b>10802</b>					

# Exhibit P-40, Budget Item Justification Sheet

Date:

June 2001

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	82.3	83.5	84.0	73.2							
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	541.3	82.3	83.5	84.0	73.2							
Initial Spares												
Total Proc Cost	541.3	82.3	83.5	84.0	73.2							
Flyaway U/C												
Wpn Sys Proc U/C												

**Description:**

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

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 is also funded for those ammunition assets that have become unsafe for continued storage.

**Justification:**

As of 30 September 1999, the conventional ammunition demilitarization account contained over 464,994 short tons of ammunition, a decrease of 28,259 short tons from the 30 September 1999 total of 493,253. Most of the decrease was caused by shipments in support of the indefinite delivery/indefinite quantity contract (shipped to contracting facility but not yet demilitarized). Over the next 5 years, an estimated 244,000 short tons of ammunition is forecasted to go into the demilitarization account. During this time, the demilitarization account is expected to increase due to the higher cost to demilitarize ammunition and the expected decrease or elimination of open burning and open detonation demilitarization methods. It is important to demilitarize as much ammunition as possible each fiscal year in order to free up storage space in the depots and for safety considerations (as propellants become older, they become more unstable). At current rates of \$25.55 per ton, the demil backlog costs the DoD \$13.2 million annually to maintain an obsolete stockpile of marginal value. 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 continues to demonstrate a strong commitment to reduce the backlog and provide demilitarization support for ammunition being generated into the demilitarization account.

<b>Exhibit P-5, Weapon AMMO Cost Analysis</b>		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: June 2001		
<b>AMMO Cost Elements</b>	ID CD	<b>FY 00</b>			<b>FY 01</b>			<b>FY 02</b>			<b>FY 03</b>		
		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								291	105				
WP/PWP	CP	1539	1829										
RIOT CONTROL	CR												
SMOKES,HC,COLORS,FS	CS							795	210				
DEP URANIUM/TUNGSTEN CARBIDE	DU	409	638		1272	772		1311	944				
INCENDIARY/THERMITE	FI				529	743		112	45				
PYROTECHNICS/ILLUMINATION/NON FRAG	FP	2896	1460		7543	2760		1868	1230				
HE COMPONENTS/DEVICES	HA	1768	1353					1189	797				
HE BOMBS	HB	3442	2218			4026		506	584				
HE CARTRIDGES	HC	6077	5214		5822	2755		1579	2038				
HE EXPLOSIVE D	HD	803	395		1013	1126		3388	5011				
BULK HIGH EXPLOSIVES	HE												
HE GRENADES	HG							253	93				
HE DEPTH CHARGES	HH	1428	2594		431	2156		2968	3234				
HE ICM/CBU AND SUBMUNITIONS WTV	HI	8375	15727		13876	12849		19795	12363				
HE MISSILES	HM				22	44		186	55				
HE PROJECTILES AND WARHEADS	HP	737	1610		2497	4328		5452	9702				
HE ROCKETS	HR												
TORPEDOES	HT							562	750				
DEMOLITION MATERIAL	HX							66	59				
HE LAND MINES	HZ							172	146				
INERT	I	438	2407		1191	2285		3836	4796				
LARGE ROCKET MOTORS	LR												
BULK PROP	PB	2792	4191		4206	4831		1238	1135				
PROPELLANT CHARGES AND INCREMENT	PC	14672	15354		9456	8232		6932	5498				
PROPELLANT MUNITIONS/COMPONENTS	PD	984	883		304	271		2012	2078				
SMALL ARMS AMMO THRU 20MM	SA	2191	1078		5834	1505		379	359				
INCINERABLE MUNITIONS	SC				151	244		1511	1102				
FUZES	SF	1627	884		1625	645							
MULTIPLE FAMILY	MU	31575	3959		20839	6958		9501	1200				
NO FAMILY	N												
OCONUS DEMIL	OC	1750	500		4655	4500		7323	1500				
<b>Total</b>		<b>83503</b>			<b>84020</b>			<b>73225</b>					

# Exhibit P-40, Budget Item Justification Sheet

Date:

June 2001

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	10.1	26.8	19.5	4.7							
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	216.2	10.1	26.8	19.5	4.7							
Initial Spares												
Total Proc Cost	216.2	10.1	26.8	19.5	4.7							
Flyaway U/C												
Wpn Sys Proc U/C												

**Description:**

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

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. 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, 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 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; 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. Foremost, ARMS becomes a critical tool to reshape the base supporting the needs of the Army of the Future while optimizing an existing industrial assets.

<b>Exhibit P-5, Weapon AMMO Cost Analysis</b>		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: June 2001		
<b>AMMO Cost Elements</b>	ID CD	<b>FY 00</b>			<b>FY 01</b>			<b>FY 02</b>			<b>FY 03</b>		
		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		24279			18272			3631					
Environmental Baselines		800											
Loan Guarantees					871			870					
Administrative Support		1700			395			200					
<b>TOTAL</b>		<b>26779</b>			<b>19538</b>			<b>4701</b>					
* * * * *													
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.													
<b>Total</b>		<b>26779</b>			<b>19538</b>			<b>4701</b>					