

# DEPARTMENT OF THE ARMY

## Procurement Programs



Committee Staff Procurement Backup Book  
Fiscal Year (FY) 2009 Budget Estimates

### PROCUREMENT OF AMMUNITION, ARMY

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APPROPRIATION

February 2008

# PROCUREMENT OF AMMUNITION ARMY

## Appropriation Language

For construction, procurement, production, modification, and modernization of ammunition, and accessories therefore; specialized equipment and training devices; expansion of public and private plants, including ammunition facilities, authorized by Sec 2854 of Title 10, United States Code, and land necessary therefore, for the foregoing purposes, and such lands and interest therein, may be acquired, and construction prosecuted thereon prior to approval of title; and procurement and installation of equipment, appliances, and machine tools in public and private plants; reserve plant and Government and contractor-owned equipment layaway; and other expenses necessary for the foregoing purposes, \$2,275,791 in fiscal year FY2009 to remain available for obligation until September 30, 2012.

## Performance Metrics

In accordance with the President's Management Agenda, Budget and Performance Integration Initiative, program performance and plans for performance improvement can be located at the [www.whitehouse.gov/omb/expectmore](http://www.whitehouse.gov/omb/expectmore)

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**DEPARTMENT OF THE ARMY**  
**FY 2009 PROCUREMENT PROGRAM**  
**President's Budget 2009**

**EXHIBIT P-1**  
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**APPROPRIATION SUMMARY**

**APPROPRIATION**

**DOLLARS IN THOUSANDS**

	<u>FY 2007</u>	<u>FY 2008</u>	<u>FY 2009</u>	<u>PAGE</u>
Procurement of Ammunition, Army	2,616,821	2,388,887	2,275,791	3
<b>TOTAL PROCUREMENT PROGRAM</b>	<u>2,616,821</u>	<u>2,388,887</u>	<u>2,275,791</u>	

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<b>APPROPRIATION Procurement of Ammunition, Army</b>		<b>DOLLARS IN THOUSANDS</b>			
<b>ACTIVITY</b>	<b>FY 2007</b>	<b>FY 2008</b>	<b>FY 2009</b>	<b>PAGE</b>	
01 Ammunition	2,339,731	2,055,276	1,930,358	4	
02 Ammunition production base support	277,090	306,874	345,433	7	
07 Re-estimate of Guar Loan		26,737		8	
<b>APPROPRIATION TOTALS</b>	<b>2,616,821</b>	<b>2,388,887</b>	<b>2,275,791</b>		

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APPROPRIATION Procurement of Ammunition, Army      ACTIVITY 01 Ammunition

LINE NO	ITEM NOMENCLATURE	ID	DOLLARS IN THOUSANDS					
			FY 2007		FY 2008		FY 2009	
			QTY	COST	QTY	COST	QTY	COST
<i>SMALL/MEDIUM CALIBER AMMUNITION</i>								
1	CTG, 5.56MM, ALL TYPES (E00700)	A		204,110		187,901		197,130
2	CTG, 7.62MM, ALL TYPES (E02000)	A		141,827		67,585		59,181
3	CTG, HANDGUN, ALL TYPES (EA3000)	A		4,895		6,070		6,276
4	CTG, .50 CAL, ALL TYPES (E08000)	A		177,872		178,253		183,813
5	CTG, 20MM, ALL TYPES (E08900)	A		49,301				
6	CTG, 25MM, ALL TYPES (E08200)	A		38,960		29,345		14,742
7	CTG, 30MM, ALL TYPES (ER8120)	A		66,553		61,612		79,066
8	CTG, 40MM, ALL TYPES (ER8001)	A		294,089		272,796		293,322
	<i>SUB-ACTIVITY TOTAL</i>			<u>977,607</u>		<u>803,562</u>		<u>833,530</u>
<i>MORTAR AMMUNITION</i>								
9	60MM MORTAR, ALL TYPES (E89600)			23,268		8,040		17,055
10	81MM MORTAR, ALL TYPES (E76000)			31,063		53,434		58,521
11	CTG, MORTAR, 120MM, ALL TYPES (E25500)	B		42,287		110,840		117,601
	<i>SUB-ACTIVITY TOTAL</i>			<u>96,618</u>		<u>172,314</u>		<u>193,177</u>
<i>TANK AMMUNITION</i>								
12	CTG TANK 105MM: ALL TYPES (E22203)	A		20,003		14,241		15,829
13	CTG, TANK, 120MM, ALL TYPES (E89700)			188,137		179,181		151,015
	<i>SUB-ACTIVITY TOTAL</i>			<u>208,140</u>		<u>193,422</u>		<u>166,844</u>

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APPROPRIATION Procurement of Ammunition, Army    ACTIVITY 01 Ammunition

LINE NO	ITEM NOMENCLATURE	ID	DOLLARS IN THOUSANDS					
			FY 2007		FY 2008		FY 2009	
			QTY	COST	QTY	COST	QTY	COST
<i>ARTILLERY AMMUNITION</i>								
14	CTG, ARTY, 75MM: ALL TYPES (E15101)	A		2,288		2,681		2,741
15	CTG, ARTY, 105MM: ALL TYPES (E21101)	A		32,649		51,681		42,153
16	CTG, ARTY, 155MM, ALL TYPES (E89500)			90,374		87,454		85,030
17	PROJ 155MM EXTENDED RANGE XM982 (E80100)	B		69,862		28,586		34,220
18	Modular Artillery Charge System (MACS), All Types (E27501)	A		77,688		77,670		43,338
	<i>SUB-ACTIVITY TOTAL</i>			<u>272,861</u>		<u>248,072</u>		<u>207,482</u>
<i>ARTILLERY FUZES</i>								
19	ARTILLERY FUZES, ALL TYPES (ER8000)			4,067		4,222		19,969
	<i>SUB-ACTIVITY TOTAL</i>			<u>4,067</u>		<u>4,222</u>		<u>19,969</u>
<i>MINES</i>								
20	MINES, ALL TYPES (EA0800)			4,598		4,759		4,846
21	MINE, CLEARING CHARGE, ALL TYPES (E75100)	A		9,902		2,505		2,606
22	ANTIPERSONNEL LANDMINE ALTERNATIVES (E95900)			68,602		51,525		52,000
	<i>SUB-ACTIVITY TOTAL</i>			<u>83,102</u>		<u>58,789</u>		<u>59,452</u>
<i>ROCKETS</i>								
23	SHOULDER LAUNCHED MUNITIONS, ALL TYPES (EA4000)	A		40,870		30,064		28,020
24	ROCKET, HYDRA 70, ALL TYPES (E37300)	A		164,121		156,929		142,521
	<i>SUB-ACTIVITY TOTAL</i>			<u>204,991</u>		<u>186,993</u>		<u>170,541</u>

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APPROPRIATION Procurement of Ammunition, Army    ACTIVITY 01 Ammunition

LINE NO	ITEM NOMENCLATURE	ID	DOLLARS IN THOUSANDS					
			FY 2007		FY 2008		FY 2009	
			QTY	COST	QTY	COST	QTY	COST
	<i>OTHER AMMUNITION</i>							
25	DEMOLITION MUNITIONS, ALL TYPES (E55400)	A		54,452		33,914		28,886
26	GRENADERS, ALL TYPES (E34000)	B		65,823		75,876		71,608
27	SIGNALS, ALL TYPES (E46900)	A		180,021		180,558		89,357
28	SIMULATORS, ALL TYPES (E51200)	A		25,510		21,462		20,027
	<i>SUB-ACTIVITY TOTAL</i>			325,806		311,810		209,878
	<i>MISCELLANEOUS</i>							
29	AMMO COMPONENTS, ALL TYPES (EB0016)	A		3,393		14,899		15,228
30	Non-Lethal Ammunition, All Types (E91901)	A		70,728		25,070		21,193
31	CAD/PAD ALL TYPES (EA0003)	A		2,307		2,729		2,806
32	ITEMS LESS THAN \$5 MILLION (EA0055)	A		6,419		6,520		6,996
33	AMMUNITION PECULIAR EQUIPMENT (EA0575)	A		17,585		14,856		10,598
34	FIRST DESTINATION TRANSPORTATION (AMMO) (EA0550)	A		13,854		12,018		12,564
35	CLOSEOUT LIABILITIES (EA8500)			52,253				100
	<i>SUB-ACTIVITY TOTAL</i>			166,539		76,092		69,485
	<b>ACTIVITY TOTAL</b>			2,339,731		2,055,276		1,930,358

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APPROPRIATION Procurement of Ammunition, Army    ACTIVITY 02 Ammunition production base support

LINE NO	ITEM NOMENCLATURE	ID	DOLLARS IN THOUSANDS					
			FY 2007		FY 2008		FY 2009	
			QTY	COST	QTY	COST	QTY	COST
	<i>PRODUCTION BASE SUPPORT</i>							
36	PROVISION OF INDUSTRIAL FACILITIES (EP1000)			172,735		160,814		187,388
37	LAYAWAY OF INDUSTRIAL FACILITIES (EP2000)			3,052		3,413		5,085
38	MAINTENANCE OF INACTIVE FACILITIES (EP1500)			4,724		5,381		5,619
39	Conventional Munitions Demilitarization, All Types (EP1700)			93,822		134,342		144,327
40	ARMS INITIATIVE (EP2500)			2,757		2,924		3,014
	<i>SUB-ACTIVITY TOTAL</i>			<u>277,090</u>		<u>306,874</u>		<u>345,433</u>
	<b>ACTIVITY TOTAL</b>			<u>277,090</u>		<u>306,874</u>		<u>345,433</u>

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APPROPRIATION Procurement of Ammunition, Army      ACTIVITY 07 Re-estimate of Guar Loan

LINE NO	ITEM NOMENCLATURE	ID	DOLLARS IN THOUSANDS					
			FY 2007		FY 2008		FY 2009	
			QTY	COST	QTY	COST	QTY	COST
	<i>Re-estimate of Guar Loan</i>							
41	RE-ESTIMATE OF GUAR LOAN (EP2520)					26,737		
	<i>SUB-ACTIVITY TOTAL</i>					<u>26,737</u>		
	<b>ACTIVITY TOTAL</b>			<u>0</u>		<u>26,737</u>		<u>0</u>
	<b>APPROPRIATION TOTAL</b>			<u>2,616,821</u>		<u>2,388,887</u>		<u>2,275,791</u>

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003	EA3000	CTG, HANDGUN, ALL TYPES	75
004	E08000	CTG, .50 CAL, ALL TYPES	77
005	E08900	CTG, 20MM, ALL TYPES	114
006	E08200	CTG, 25MM, ALL TYPES	120
007	ER8120	CTG, 30MM, ALL TYPES	138
008	ER8001	CTG, 40MM, ALL TYPES	150
009	E89600	60MM MORTAR, ALL TYPES	201
010	E76000	81MM MORTAR, ALL TYPES	219
011	E25500	CTG, MORTAR, 120MM, ALL TYPES	246
012	E22203	CTG TANK 105MM: ALL TYPES	273
013	E89700	CTG, TANK, 120MM, ALL TYPES	285
014	E15101	CTG, ARTY, 75MM: ALL TYPES	311
015	E21101	CTG, ARTY, 105MM: ALL TYPES	313
016	E89500	CTG, ARTY, 155MM, ALL TYPES	326
017	E80100	PROJ 155MM EXTENDED RANGE XM982	346
018	E27501	Modular Artillery Charge System (MACS), All Types	355
019	ER8000	ARTILLERY FUZES, ALL TYPES	370
020	EA0800	MINES, ALL TYPES	376
021	E75100	MINE, CLEARING CHARGE, ALL TYPES	378
022	E95900	ANTIPERSONNEL LANDMINE ALTERNATIVES	384
023	EA4000	SHOULDER LAUNCHED MUNITIONS, ALL TYPES	391
024	E37300	ROCKET, HYDRA 70, ALL TYPES	403
025	E55400	DEMOLITION MUNITIONS, ALL TYPES	432
026	E34000	GRENADES, ALL TYPES	457
027	E46900	SIGNALS, ALL TYPES	488
028	E51200	SIMULATORS, ALL TYPES	514
029	EB0016	AMMO COMPONENTS, ALL TYPES	521
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037	EP2000	LAYAWAY OF INDUSTRIAL FACILITIES .....	565
038	EP1500	MAINTENANCE OF INACTIVE FACILITIES .....	569
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040	EP2500	ARMS INITIATIVE .....	580
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043	EP2510	INTEREST ON RE-ESTIMATE .....	583

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

Date: February 2008

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 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013	To Complete	Total Prog
Proc Qty										
Gross Cost	2913.8	204.1	187.9	197.1	202.5	213.3	205.4	205.7		4330.0
Less PY Adv Proc										
Plus CY Adv Proc										
Net Proc P1	2913.8	204.1	187.9	197.1	202.5	213.3	205.4	205.7		4330.0
Initial Spares										
Total Proc Cost	2913.8	204.1	187.9	197.1	202.5	213.3	205.4	205.7		4330.0
Flyaway U/C										
Weapon System Proc U/C										

**Description:**  
 This budget line includes 5.56MM ALL TYPES.  
 FY 2007 funding total includes \$0 received in GWOT supplemental.  
 FY 2008 funding total includes \$0 received in The Consolidated Appropriations Act, 2008 (P.L. 110-161).  
 FY 2008 funding totals do not includes \$0 previously requested for current FY 2008 GWOT requirements.

Actual amount for FY07 reflect changes since the publication of the P-1.

<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: February 2008	
<b>AMMO Cost Elements</b>	ID	<b>FY 07</b>			<b>FY 08</b>			<b>FY 09</b>		
	CD	Total Cost	Qty	Unit Cost	Total Cost	Qty	Unit Cost	Total Cost	Qty	Unit Cost
		\$000	Units	\$000	\$000	Units	\$000	\$000	Units	\$000
E00701 CTG 5.56MM BALL M193					1483	4026	0.37	1523	3348	0.45
E01100 CTG 5.56MM BLANK M200		32851	169997	0.19	31010	176304	0.18	31846	166241	0.19
E01101CTG 5.56MM BLANK M200 LINKED F/SAW		22405	76106	0.29	22512	77036	0.29	22536	58423	0.39
E04601 CTG 5.56MM BALL M855 F/M16A2		55405	191364	0.29	41545	142632	0.29	42425	118845	0.36
E04602 CTG 5.56MM TRACER M856 F/M16A2		12774	30801	0.41	9996	27086	0.37	10255	22286	0.46
E04603 CTG 5.56MM BALL M855 LINKED F/SAW		14916	41662	0.36	5488	9335	0.59	5635	9235	0.61
E04604 CTG 5.56MM 4 BALL M855/1 TR M856		21538	36687	0.59	22597	44585	0.51	28263	53809	0.53
E75500 CTG 5.56MM SHORT RANGE TRNG M862		1763	4126	0.43	1817	3131	0.58	1867	3041	0.61
E95901 CTG 5.56MM BALL M855 (COM'L PACK)		41211	177206	0.23	41398	167015	0.25	42573	138641	0.31
E95200 CTG 5.56MM M855 W/M27 LINK		227								
E95400 CTG 5.56MM M855 10 RD CLIP, LF		682			93			96		
E95700 CTG 5.56MM M855 10 RD CLIP, LF					312			320		
E96110 CTG 5.56MM MARKING, XM1042					6626	11757	0.56	6698	10955	0.61
E96120 CTG 5.56MM MARKING, XM1071 LINKED					1958	2405	0.81	1997	2663	0.75
E96126 CTG 5.56MM SR TRNG XM1037 LINKED					1066	1010	1.06	1096	975	1.12
F47600 CTG 5.56MM ARMOR PIERCING M995		338								
<b>Total:</b>		<b>204110</b>			<b>187901</b>			<b>197130</b>		

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

Date: February 2008

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

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

Program Elements for Code B Items:

Code:  
A

Other Related Program Elements:

	Prior Years	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013	To Complete	Total Prog
Proc Qty	4026376	169997	176304	166241	165639	165018	164875	164701		5199151
Gross Cost	393.3	32.9	31.0	31.8	32.5	33.1	33.8	34.5		622.9
Less PY Adv Proc										
Plus CY Adv Proc										
Net Proc P1	393.3	32.9	31.0	31.8	32.5	33.1	33.8	34.5		622.9
Initial Spares										
Total Proc Cost	393.3	32.9	31.0	31.8	32.5	33.1	33.8	34.5		622.9
Flyaway U/C										
Weapon System Proc U/C										

**Description:**

The 5.56mm, M200 blank cartridge is used for training and ceremonial purposes in M16 series Rifles and M4 series Carbines fitted with a blank firing adapter. The cartridge case mouth is rosette crimp closed and sealed with lacquer. The cartridge is a single-round carton packed and is Code A, approved for service use.

**Justification:**

This is a training unique item not used in combat. FY 2009 procurement supports annual training and builds a depot level in accordance with the Army's procurement goals.

TYPE CLASSIFICATION DATE: Prior to 1977

Exhibit P-5, Weapon AMMO Cost Analysis		Appropriation/Budget Activity/Serial No: Procurement of Ammunition, Army / 1 / Ammunition			P-1 Line Item Nomenclature: CTG 5.56MM BLANK M200 (E01100)			Weapon System Type:		Date: February 2008	
AMMO Cost Elements		ID CD	FY 07			FY 08			FY 09		
			Total Cost \$000	Qty x1000	Unit Cost \$	Total Cost \$000	Qty x1000	Unit Cost \$	Total Cost \$000	Qty x1000	Unit Cost \$
<b>HARDWARE</b>											
LOAD, ASSEMBLE, PACK			18581	169997	0.11	28103	176304	0.16	28444	166241	0.17
BOX METAL M2A1			1409	151	9.31	1699	157	10.83	1654	148	11.18
<b>H/W SUBTOTAL</b>			<b>19990</b>			<b>29802</b>			<b>30098</b>		
<b>PRODUCTION SUPPORT COSTS</b>											
PRODUCTION ENGINEERING			1097			1189			1727		
QUALITY ASSURANCE			9			10			13		
ACCEPTANCE TESTING			12			9			8		
<b>PROD SUPPORT SUBTOTAL</b>			<b>1118</b>			<b>1208</b>			<b>1748</b>		
<b>NON-RECURRING COSTS</b>											
PLANT MODERNIZATION			1068								
ATK INTELLECTUAL PROP SETTLEMENT			8464								
TECH & EGR SPT			2211								
<b>NON-RECURRING SUBTOTAL</b>			<b>11743</b>								
<b>Total:</b>			<b>32851</b>		<b>0.19</b>	<b>31010</b>		<b>0.18</b>	<b>31846</b>		<b>0.19</b>



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

Date:  
February 2008

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 \$000	Specs Avail Now?	Date Revsn Avail	RFP Issue Date
<b>LOAD, ASSEMBLE, PACK</b>										
FY 2007	ALLIANT TECH (LCAAP) INDEPENDENCE, MO	SS/FP	ROCK ISLAND, IL	Jan 07	Oct 07	169997	0.11			
FY 2008	ALLIANT TECH (LCAAP) INDEPENDENCE, MO	SS/FP	ROCK ISLAND, IL	Jan 08	Oct 08	176304	0.16	Y		
FY 2009	TO BE SELECTED	OTHER	ROCK ISLAND, IL	Jan 09	Oct 09	166241	0.17	Y		
<b>BOX METAL M2A1</b>										
FY 2007	BWAY CORPORATION ATLANTA, GA	C/OPTION	ROCK ISLAND, IL	Mar 07	Sep 07	121	9.31			
FY 2007	BEST FOAM FAB CHICAGO, IL	C/OPTION	ROCK ISLAND, IL	Jun 07	Sep 07	30	9.31			
FY 2008	BWAY CORPORATION ATLANTA, GA	C/OPTION	ROCK ISLAND, IL	Mar 08	Sep 08	126	10.83	Y		
FY 2008	BEST FOAM FAB CHICAGO, IL	C/OPTION	ROCK ISLAND, IL	Jun 08	Sep 08	31	10.83	Y		
FY 2009	BWAY CORPORATION ATLANTA, GA	C/OPTION	ROCK ISLAND, IL	Mar 09	Sep 09	118	11.18	Y		
FY 2009	BEST FOAM FAB CHICAGO, IL	C/OPTION	ROCK ISLAND, IL	Jun 09	Sep 09	30	11.18	Y		

REMARKS: OTHER - COMPETITION STRATEGY IS BEING FINALIZED.

FY 2008 - FY 2009 BOX METAL M2A1 IS AN AVERAGE UNIT COST FOR MULTIPLE PRODUCERS.

<b>FY 08 / 09 BUDGET PRODUCTION SCHEDULE</b>												P-1 ITEM NOMENCLATURE CTG 5.56MM BLANK M200 (E01100)												Date: February 2008											
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COST ELEMENTS						Fiscal Year 08												Fiscal Year 09												Later
MFR	FY	S E R V	PROC QTY x1000	ACCEP PRIOR TO 1 OCT	BAL DUE AS OF 1 OCT	Calendar Year 08												Calendar Year 09												
						O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	

LOAD, ASSEMBLE, PACK																																		
1	FY 07	A	170.00	0.00	170.00	12.00	12.00	8.00	15.00	15.00	16.00	12.00	19.00	20.00	19.00	19.00	3.00																	0.00
1	FY 08	A	176.00	0.00	176.00				A										14.00	15.00	14.00	14.00	15.00	15.00	15.00	15.00	15.00	14.00	15.00	15.00	15.00	0.00		
2	FY 09	A	166.00	0.00	166.00																A												166.00	
1	FY 07	AF	6.39	0.00	6.39	2.90	2.90	0.59																									0.00	
1	FY 08	AF	7.05	0.00	7.05														0.60	0.60	0.45	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.00		
2	FY 09	AF	11.00	0.00	11.00																												11.00	
2	FY 09	CG	0.30	0.00	0.30																												0.30	
1	FY 07	MC	2.64	0.00	2.64	0.88	0.88	0.88																									0.00	
1	FY 08	MC	5.78	0.00	5.78														0.49	0.49	0.48	0.48	0.48	0.48	0.48	0.48	0.48	0.48	0.48	0.48	0.48	0.00		
2	FY 09	MC	7.56	0.00	7.56																												7.56	
1	FY 07	NS	2.46	0.00	2.46	0.06	1.20	1.20																									0.00	
Total			555.18		555.18	15.84	16.98	10.67	15.00	15.00	16.00	12.00	19.00	20.00	19.00	19.00	3.00	15.09	16.09	14.93	15.08	16.08	16.08	16.08	16.08	16.08	16.08	15.08	16.08	16.08	16.08	184.86		
						O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P					

MFR	Name - Location	PRODUCTION RATES			Reached D+	MFR	ADMIN LEAD TIME		MFR After 1 Oct	TOTAL After 1 Oct	REMARKS	
		MIN	1-8-5	MAX			Prior 1 Oct	After 1 Oct				
1	ALLIANT TECH (LCAAP), INDEPENDENCE, MO		13.70	41.00		1	Initial	6	4	9	13	SHARED LINE FOR ALL 5.56MM AMMUNITION PRODUCED AT LAKE CITY ARMY AMMUNITION PLANT
							Reorder	6	4	9	13	
2	TO BE SELECTED		21.20	68.30		2	Initial	6	4	9	13	
							Reorder	6	4	9	13	
3	GENERAL DYNAMICS ORD & TAC SYS, ST PETERSBURG, FL		5.80	14.60		3	Initial	6	9	9	18	
							Reorder	6	9	9	18	
							Initial					
							Reorder					
							Initial					
							Reorder					

<b>FY 10 / 11 BUDGET PRODUCTION SCHEDULE</b>	P-1 ITEM NOMENCLATURE CTG 5.56MM BLANK M200 (E01100)	Date: February 2008
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COST ELEMENTS						Fiscal Year 10													Fiscal Year 11													Later
M F R	FY	S E R V	PROC QTY x1000	ACCEP PRIOR TO 1 OCT	BAL DUE AS OF 1 OCT	Calendar Year 10													Calendar Year 11													
						O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P			

LOAD, ASSEMBLE, PACK																																			
1	FY 07	A	170.00	170.00																															0.00
1	FY 08	A	176.00	176.00																															0.00
2	FY 09	A	166.00	0.00	166.00	14.00	14.00	13.00	14.00	13.00	14.00	14.00	14.00	14.00	14.00	14.00																			0.00
1	FY 07	AF	6.39	6.39																															0.00
1	FY 08	AF	7.05	7.05																															0.00
2	FY 09	AF	11.00	0.00	11.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00																			0.00
2	FY 09	CG	0.30	0.00	0.30	0.30																													0.00
1	FY 07	MC	2.64	2.64																															0.00
1	FY 08	MC	5.78	5.78																															0.00
2	FY 09	MC	7.56	0.00	7.56	0.63	0.63	0.63	0.63	0.63	0.63	0.63	0.63	0.63	0.63	0.63																			0.00
1	FY 07	NS	2.46	2.46																															0.00
Total			555.18	370.32	184.86	15.93	15.63	14.63	15.63	14.63	15.63	15.63	15.63	15.63	15.63	14.63																			
						O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P						

M F R	Name - Location	PRODUCTION RATES			Reached D+	MFR	ADMIN LEAD TIME		MFR After 1 Oct	TOTAL After 1 Oct	REMARKS		
		MIN	1-8-5	MAX			1	Initial				6	4
1	ALLIANT TECH (LCAAP), INDEPENDENCE, MO		13.70	41.00		1	Initial	6	4	9	13	SHARED LINE FOR ALL 5.56MM AMMUNITION PRODUCED AT LAKE CITY ARMY AMMUNITION PLANT	
2	TO BE SELECTED		21.20	68.30		2	Initial	6	4	9	13		
3	GENERAL DYNAMICS ORD & TAC SYS, ST PETERSBURG, FL		5.80	14.60		3	Initial	6	9	9	18		
							Reorder	6	9	9	18		
							Initial						
							Reorder						
							Initial						
							Reorder						
							Initial						
							Reorder						

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

Date: February 2008

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

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

Program Elements for Code B Items:

Code:  
A

Other Related Program Elements:

	Prior Years	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013	To Complete	Total Prog
Proc Qty	657903	76106	77036	58423	62814	60826	65936	64468		1123512
Gross Cost	168.9	22.4	22.5	22.5	25.1	25.7	26.2	26.2		339.5
Less PY Adv Proc										
Plus CY Adv Proc										
Net Proc P1	168.9	22.4	22.5	22.5	25.1	25.7	26.2	26.2		339.5
Initial Spares										
Total Proc Cost	168.9	22.4	22.5	22.5	25.1	25.7	26.2	26.2		339.5
Flyaway U/C										
Weapon System Proc U/C										

**Description:**

The 5.56mm, M200 blank cartridge is linked in belts with the M27 link and is used for training purposes in the M249 Machine Gun fitted with a blank firing adapter. The cartridge case mouth is rosette crimp closed and sealed with lacquer. The 200-round cartridge belts are packed in magazines that attach to the machine gun. This item is Code A, approved for service use.

**Justification:**

This is a training unique item not used in combat. FY 2009 procurement supports annual training and builds a depot level in accordance with the Army's procurement goals.

TYPE CLASSIFICATION DATE: 1983

<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: February 2008		
<b>AMMO Cost Elements</b>		ID CD	<b>FY 07</b>			<b>FY 08</b>			<b>FY 09</b>		
			Total Cost \$000	Qty x1000	Unit Cost \$	Total Cost \$000	Qty x1000	Unit Cost \$	Total Cost \$000	Qty x1000	Unit Cost \$
<b>HARDWARE</b>											
COMPLETE ROUND			20092	76106	0.26	21454	77036	0.28	20401	58423	0.35
<b>H/W SUBTOTAL</b>			<b>20092</b>			<b>21454</b>			<b>20401</b>		
<b>PRODUCTION SUPPORT COSTS</b>											
PRODUCTION ENGINEERING			752			1046			1228		
QUALITY ASSURANCE			2			3			3		
ACCEPTANCE TESTING			12			9			4		
<b>PROD SUPPORT SUBTOTAL</b>			<b>766</b>			<b>1058</b>			<b>1235</b>		
<b>NON-RECURRING COSTS</b>											
GREEN AMMO CONVERSION									600		
ENGINEERING SUPPORT			771								
PRODUCT IMPROVEMENT									300		
ATK INTELLECTUAL PROP SETTLEMENT			776								
<b>NON-RECURRING SUBTOTAL</b>			<b>1547</b>						<b>900</b>		
<b>Total:</b>			<b>22405</b>		<b>0.29</b>	<b>22512</b>		<b>0.29</b>	<b>22536</b>		<b>0.39</b>

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

Date:  
February 2008

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 \$000	Specs Avail Now?	Date Revsn Avail	RFP Issue Date
<b>COMPLETE ROUND</b>										
FY 2007	ALLIANT TECH (LCAAP) INDEPENDENCE, MO	SS/FP	ROCK ISLAND, IL	Jan 07	Apr 07	76106	0.26			
FY 2008	ALLIANT TECH (LCAAP) INDEPENDENCE, MO	SS/FP	ROCK ISLAND, IL	Jan 08	Oct 08	77036	0.28	Y		
FY 2009	TO BE SELECTED	OTHER	ROCK ISLAND, IL	Jan 09	Oct 09	58423	0.35	Y		

REMARKS: OTHER - COMPETITION STRATEGY IS BEING FINALIZED

<b>FY 08 / 09 BUDGET PRODUCTION SCHEDULE</b>	P-1 ITEM NOMENCLATURE CTG 5.56MM BLANK M200 LINKED F/SAW (E01101)	Date: February 2008
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COST ELEMENTS						Fiscal Year 08												Fiscal Year 09												Later
M F R	FY	S E R V	PROC QTY x1Mil	ACCEP PRIOR TO 1 OCT	BAL DUE AS OF 1 OCT	Calendar Year 08												Calendar Year 09												
						O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	

COMPLETE ROUND																														
1	FY 07	A	76.10	40.00	36.10	5.20	3.90	3.40	5.40	4.50	4.20	9.50																0.00		
1	FY 08	A	77.00	0.00	77.00				A								6.40	6.40	6.40	6.40	6.40	6.50	6.40	6.40	6.50	6.40	6.40	6.40	0.00	
2	FY 09	A	58.40	0.00	58.40															A								58.40		
1	FY 07	AF	3.14	0.01	3.13	3.00	0.13																					0.00		
1	FY 08	MC	2.81	0.00	2.81												0.23	0.23	0.23	0.23	0.23	0.23	0.24	0.24	0.24	0.23	0.24	0.24	0.00	
2	FY 09	MC	3.62	0.00	3.62																							3.62		
2	FY 09	SOF	0.70	0.00	0.70																							0.70		
Total			221.77	40.01	181.76	8.20	4.03	3.40	5.40	4.50	4.20	9.50					6.63	6.63	6.63	6.63	6.63	6.73	6.64	6.64	6.74	6.63	6.64	6.64	62.72	
						O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	

M F R	Name - Location	PRODUCTION RATES			Reached D+	MFR	ADMIN LEAD TIME		MFR After 1 Oct	TOTAL After 1 Oct	REMARKS	
		MIN	1-8-5	MAX			Prior 1 Oct	After 1 Oct				
1	ALLIANT TECH (LCAAP), INDEPENDENCE, MO		14.10	48.70		1	Initial	6	4	9	13	SHARED LINE FOR ALL 5.56MM AMMUNITION PRODUCED AT LAKE CITY ARMY AMMUNITION PLANT
							Reorder	6	4	9	13	
2	TO BE SELECTED		14.10	48.70		2	Initial	6	4	9	13	
							Reorder	6	4	9	13	
							Initial					
							Reorder					
							Initial					
							Reorder					

<b>FY 10 / 11 BUDGET PRODUCTION SCHEDULE</b>	P-1 ITEM NOMENCLATURE CTG 5.56MM BLANK M200 LINKED F/SAW (E01101)	Date: February 2008
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COST ELEMENTS						Fiscal Year 10												Fiscal Year 11												Later
M F R	FY	S E R V	PROC QTY x1Mil	ACCEP PRIOR TO 1 OCT	BAL DUE AS OF 1 OCT	Calendar Year 10												Calendar Year 11												
						O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	

COMPLETE ROUND																																				
1	FY 07	A	76.10	76.10																																0.00
1	FY 08	A	77.00	77.00																																0.00
2	FY 09	A	58.40	0.00	58.40	4.90	4.90	4.80	4.80	4.80	4.90	4.90	4.90	4.90	4.80	4.90	4.90																			0.00
1	FY 07	AF	3.14	3.14																																0.00
1	FY 08	MC	2.81	2.81																																0.00
2	FY 09	MC	3.62	0.00	3.62	0.30	0.30	0.30	0.30	0.30	0.30	0.31	0.30	0.30	0.31	0.30	0.30																			0.00
2	FY 09	SOF	0.70	0.00	0.70	0.06	0.06	0.05	0.06	0.05	0.06	0.06	0.06	0.06	0.06	0.06	0.06																			0.00
Total			221.77	159.05	62.72	5.26	5.26	5.15	5.16	5.15	5.26	5.27	5.26	5.26	5.17	5.26	5.26																			
						O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P							

M F R	Name - Location	PRODUCTION RATES			Reached D+	MFR	ADMIN LEAD TIME		MFR After 1 Oct	TOTAL After 1 Oct	REMARKS SHARED LINE FOR ALL 5.56MM AMMUNITION PRODUCED AT LAKE CITY ARMY AMMUNITION PLANT		
		MIN	1-8-5	MAX			1	Initial				6	4
1	ALLIANT TECH (LCAAP), INDEPENDENCE, MO		14.10	48.70		1	Initial	6	4	9	13		
							Reorder	6	4	9	13		
2	TO BE SELECTED		14.10	48.70		2	Initial	6	4	9	13		
							Reorder	6	4	9	13		
							Initial						
							Reorder						
							Initial						
							Reorder						



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

Date: February 2008

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

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

Program Elements for Code B Items:

Code:  
A

Other Related Program Elements:

	Prior Years	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013	To Complete	Total Prog
Proc Qty	2398285	191364	142632	118845	123332	117112	98117	87029		3276716
Gross Cost	628.0	55.4	41.5	42.4	43.0	43.7	36.3	32.9		923.3
Less PY Adv Proc										
Plus CY Adv Proc										
Net Proc P1	628.0	55.4	41.5	42.4	43.0	43.7	36.3	32.9		923.3
Initial Spares										
Total Proc Cost	628.0	55.4	41.5	42.4	43.0	43.7	36.3	32.9		923.3
Flyaway U/C										
Weapon System Proc U/C										

**Description:**

The 5.56mm, M855 ball cartridge has a bullet with conical steel insert and a lead antimony alloy cylindrical core in a copper alloy jacket. This cartridge is identified by a green-colored bullet tip and is packed in 10-round clips in a military-type package. The cartridge is intended for use in M16 Rifles series as well as M4 series Carbines. This item is Code A, approved for service use.

**Justification:**

This is a training standard item used in both training and combat. FY 2009 procurement supports annual training and builds a war reserve inventory in accordance with the Army's procurement goals.

TYPE CLASSIFICATION DATE: 1982

<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: February 2008	
<b>AMMO Cost Elements</b>		ID CD	<b>FY 07</b>			<b>FY 08</b>			<b>FY 09</b>		
			Total Cost \$000	Qty x1000	Unit Cost \$	Total Cost \$000	Qty x1000	Unit Cost \$	Total Cost \$000	Qty x1000	Unit Cost \$
<b>HARDWARE</b>											
LOAD, ASSEMBLE, PACK			42655	191364	0.22	35815	142632	0.25	36581	118845	0.31
BOX METAL M2A1			2109	232	9.11	1869	173	10.83	1608	144	11.18
<b>H/W SUBTOTAL</b>			<b>44764</b>			<b>37684</b>			<b>38189</b>		
<b>PRODUCTION SUPPORT COSTS</b>											
PRODUCTION ENGINEERING			4598			1924			2274		
QUALITY ASSURANCE			23			11			8		
ACCEPTANCE TESTING			326			126			54		
<b>PROD SUPPORT SUBTOTAL</b>			<b>4947</b>			<b>2061</b>			<b>2336</b>		
<b>NON-RECURRING COSTS</b>											
PLANT MODERNIZATION									700		
GREEN AMMO CONVERSION			3392								
ATK INTELLECTUAL PROP SETTLEMENT			1569								
TECH & ENGR SUPPORT			332								
PRODUCT IMPROVEMENT			401			1800			1200		
<b>NON-RECURRING SUBTOTAL</b>			<b>5694</b>			<b>1800</b>			<b>1900</b>		
<b>Total:</b>			<b>55405</b>		<b>0.29</b>	<b>41545</b>		<b>0.29</b>	<b>42425</b>		<b>0.36</b>

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

Date:  
February 2008

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 \$000	Specs Avail Now?	Date Revsn Avail	RFP Issue Date
<b>LOAD, ASSEMBLE, PACK</b>										
FY 2007	ALLIANT TECH (LCAAP) INDEPENDENCE, MO	SS/FP	ROCK ISLAND, IL	Jan 07	Oct 07	185559	0.22			
FY 2007	GENERAL DYNAMICS ORD& TAC SYS ST PETERSBURG, FL	SS/FP	ROCK ISLAND, IL	Jun 07	Jan 09	5805	0.22			
FY 2008	ALLIANT TECH (LCAAP) INDEPENDENCE, MO	SS/FP	ROCK ISLAND, IL	Jan 08	Oct 08	106974	0.25	Y		
FY 2008	GENERAL DYNAMICS ORD& TAC SYS ST PETERSBURG, FL	SS/FP	ROCK ISLAND, IL	Jun 08	Mar 09	35658	0.25	Y		
FY 2009	TO BE SELECTED	OTHER	ROCK ISLAND, IL	Jan 09	Oct 09	118845	0.31	Y		
<b>BOX METAL M2A1</b>										
FY 2007	BWAY CORPORATION ATLANTA, GA	C/OPTION	ROCK ISLAND, IL	Mar 07	Sep 07	185	9.11			
FY 2007	BEST FOAM FAB CHICAGO, IL	C/OPTION	ROCK ISLAND, IL	Jul 07	Sep 07	47	9.11			
FY 2008	BWAY CORPORATION ATLANTA, GA	C/OPTION	ROCK ISLAND, IL	Mar 08	Sep 08	138	10.83	Y		
FY 2008	BEST FOAM FAB CHICAGO, IL	C/OPTION	ROCK ISLAND, IL	Jun 08	Sep 08	35	10.83	Y		
FY 2009	BWAY CORPORATION ATLANTA, GA	C/OPTION	ROCK ISLAND, IL	Mar 09	Sep 09	115	11.18	Y		
FY 2009	BEST FOAM FAB CHICAGO, IL	C/OPTION	ROCK ISLAND, IL	Jun 09	Sep 09	29	11.18	Y		

REMARKS: OTHER - ACQUISITION STRATEGY IS BEING FINALIZED.

FY 2007-FY 2008 LOAD, ASSEMBLE, PACK (LAP) IS AN AVERAGE UNIT COST FOR MULTIPLE PRODUCERS.

<b>FY 08 / 09 BUDGET PRODUCTION SCHEDULE</b>	P-1 ITEM NOMENCLATURE CTG 5.56MM BALL M855 F/M16A2 (E04601)	Date: February 2008
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COST ELEMENTS						Fiscal Year 08												Fiscal Year 09												Later
M F R	FY	S E R V	PROC QTY x1Mil	ACCEP PRIOR TO 1 OCT	BAL DUE AS OF 1 OCT	Calendar Year 08												Calendar Year 09												
						O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	

LOAD, ASSEMBLE, PACK																																			
1	FY 07 P	A	54.00	0.00	54.00											6.00	8.00	16.00	8.00	8.00	8.00										0.00				
2	FY 07	A	186.00	0.00	186.00	21.00	16.00	4.00	19.00	17.00	23.00	6.00	14.00	12.00	19.00	19.00	16.00															0.00			
1	FY 07	A	5.80	0.00	5.80																	5.80									0.00				
1	FY 08	A	35.60	0.00	35.60									A											3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	14.60		
2	FY 08	A	107.00	0.00	107.00				A									9.00	9.00	8.00	9.00	9.00	9.00	9.00	9.00	9.00	9.00	9.00	9.00	9.00	0.00				
3	FY 09	A	119.00	0.00	119.00																	A									119.00				
2	FY 07	AF	17.70	0.00	17.70	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.20															0.00				
2	FY 08	AF	8.38	0.00	8.38													0.70	0.70	0.68	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.00					
1	FY 08	AF	2.79	0.00	2.79																					0.24	0.23	0.23	0.23	0.23	0.23	0.23	1.17		
3	FY 09	AF	1.37	0.00	1.37																										1.37				
1	FY 09	AF	0.05	0.00	0.05																										0.05				
2	FY 07	CG	3.06	0.00	3.06	0.30	0.20	0.10	0.30	0.20	0.30	0.30	0.30	0.30	0.16	0.30	0.30														0.00				
1	FY 08	CG	0.50	0.00	0.50																						0.04	0.04	0.04	0.04	0.04	0.04	0.05	0.04	0.21
						O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P						

M F R	Name - Location	PRODUCTION RATES			Reached D+	MFR	ADMIN LEAD TIME		MFR After 1 Oct	TOTAL After 1 Oct	REMARKS	
		MIN	1-8-5	MAX			Prior 1 Oct	After 1 Oct				
1	GENERAL DYNAMICS ORD& TAC SYS, ST PETERSBURG, FL		5.70	14.20		1	Initial	6	9	9	18	SHARED LINE FOR ALL 5.56MM AMMUNITION PRODUCED AT LAKE CITY ARMY AMMUNITION PLANT
						2	Reorder	6	9	9	18	
2	ALLIANT TECH (LCAAP), INDEPENDENCE, MO		19.40	67.50		1	Initial	6	4	9	13	
						2	Reorder	6	4	9	13	
3	TO BE SELECTED		19.40	67.50		1	Initial	6	4	9	13	
						2	Reorder	6	4	9	13	
						3	Initial					
						3	Reorder					
						4	Initial					
						4	Reorder					

**FY 08 / 09 BUDGET PRODUCTION SCHEDULE**

P-1 ITEM NOMENCLATURE  
CTG 5.56MM BALL M855 F/M16A2 (E04601)

Date: February 2008

COST ELEMENTS						Fiscal Year 08													Fiscal Year 09													Later
M F R	FY	S E R V	PROC QTY x1Mil	ACCEP PRIOR TO 1 OCT	BAL DUE AS OF 1 OCT	Calendar Year 08													Calendar Year 09													
						O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P			
2	FY 08	CG	1.50	0.00	1.50													0.13	0.13	0.10	0.13	0.13	0.13	0.13	0.13	0.13	0.10	0.13	0.13	0.00		
1	FY 09	CG	0.76	0.00	0.76																									0.76		
3	FY 09	CG	2.30	0.00	2.30																									2.30		
1	FY 07 P	MC	17.90	0.00	17.90						8.00	8.00	1.90																	0.00		
1	FY 07	MC	18.00	0.00	18.00																	6.00	6.00	6.00						0.00		
2	FY 07	MC	94.50	0.00	94.50	10.00	10.00	10.00	10.00	10.00	0.58	9.40	5.40	9.70	9.70	8.90	0.82													0.00		
1	FY 08	MC	91.10	0.00	91.10																	3.10	8.00	8.00	8.00	8.00	8.00	8.00	8.00	40.00		
2	FY 08	MC	273.00	0.00	273.00													23.00	23.00	21.00	23.00	23.00	23.00	23.00	23.00	23.00	23.00	23.00	23.00	0.00		
3	FY 09	MC	83.80	0.00	83.80																									83.80		
2	FY 07	NS	4.02	0.00	4.02	0.45	0.45	0.42	0.45	0.45	0.45	0.45	0.45	0.45																0.00		
2	FY 08	NS	7.13	0.00	7.13													0.60	0.60	0.53	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.00		
1	FY 08	NS	2.38	0.00	2.38																	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.98		
3	FY 09	NS	9.17	0.00	9.17																									9.17		
1	FY 09	NS	0.33	0.00	0.33																									0.33		

M F R	Name - Location	PRODUCTION RATES			Reached D+	MFR	ADMIN LEAD TIME		MFR After 1 Oct	TOTAL After 1 Oct	REMARKS	
		MIN	1-8-5	MAX			Prior 1 Oct	After 1 Oct				
1	GENERAL DYNAMICS ORD& TAC SYS, ST PETERSBURG, FL		5.70	14.20		1	Initial	6	9	9	18	SHARED LINE FOR ALL 5.56MM AMMUNITION PRODUCED AT LAKE CITY ARMY AMMUNITION PLANT
						2	Initial	6	9	9	18	
2	ALLIANT TECH (LCAAP), INDEPENDENCE, MO		19.40	67.50		2	Initial	6	4	9	13	
						3	Initial	6	4	9	13	
3	TO BE SELECTED		19.40	67.50		3	Initial	6	4	9	13	
							Reorder	6	4	9	13	
							Initial					
							Reorder					
							Initial					
							Reorder					

<b>FY 08 / 09 BUDGET PRODUCTION SCHEDULE</b>	P-1 ITEM NOMENCLATURE CTG 5.56MM BALL M855 F/M16A2 (E04601)	Date: February 2008
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COST ELEMENTS						Fiscal Year 08														Fiscal Year 09												Later				
MFR	FY	SERV	PROC QTY x1Mil	ACCEP PRIOR TO 1 OCT	BAL DUE AS OF 1 OCT	Calendar Year 08														Calendar Year 09																
						OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP							
2	FY 07	SOF	9.00	0.00	9.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00																						0.00
1	FY 08	SOF	1.50	0.00	1.50																															0.59
2	FY 08	SOF	4.50	0.00	4.50												0.40	0.40	0.20	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.30	0.40	0.40			0.00		
1	FY 09	SOF	0.21	0.00	0.21																														0.21	
3	FY 09	SOF	5.79	0.00	5.79																														5.79	
<b>Total</b>			1168.14		1168.14	34.25	29.15	17.02	32.25	30.15	26.83	26.65	30.65	26.85	36.36	37.70	34.32	41.83	41.83	38.51	39.63	39.83	46.54	51.43	45.43	45.43	44.30	45.44	45.43				280.33			
						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	ADMIN LEAD TIME		MFR After 1 Oct	TOTAL After 1 Oct	REMARKS SHARED LINE FOR ALL 5.56MM AMMUNITION PRODUCED AT LAKE CITY ARMY AMMUNITION PLANT
		MIN	1-8-5	MAX			Prior 1 Oct	After 1 Oct			
		1	GENERAL DYNAMICS ORD& TAC SYS, ST PETERSBURG, FL				5.70	14.20		1	
							Reorder	6	9	9	18
2	ALLIANT TECH (LCAAP), INDEPENDENCE, MO		19.40	67.50		2	Initial	6	4	9	13
							Reorder	6	4	9	13
3	TO BE SELECTED		19.40	67.50		3	Initial	6	4	9	13
							Reorder	6	4	9	13
							Initial				
							Reorder				
							Initial				
							Reorder				

<b>FY 10 / 11 BUDGET PRODUCTION SCHEDULE</b>	P-1 ITEM NOMENCLATURE CTG 5.56MM BALL M855 F/M16A2 (E04601)	Date: February 2008
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COST ELEMENTS					Fiscal Year 10										Fiscal Year 11										Later	
M F R	FY	S E R V	PROC QTY x1Mil	ACCEP PRIOR TO 1 OCT	BAL DUE AS OF 1 OCT	Calendar Year 10										Calendar Year 11										
						O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R		M A Y

LOAD, ASSEMBLE, PACK																													
1	FY 07 P	A	54.00	54.00																								0.00	
2	FY 07	A	186.00	186.00																								0.00	
1	FY 07	A	5.80	5.80																								0.00	
1	FY 08	A	35.60	21.00	14.60	3.00	3.00	2.60	3.00	3.00																	0.00		
2	FY 08	A	107.00	107.00																								0.00	
3	FY 09	A	119.00	0.00	119.00	10.00	10.00	9.40	10.00	10.00	10.00	10.00	10.00	9.60	10.00	10.00												0.00	
2	FY 07	AF	17.70	17.70																								0.00	
2	FY 08	AF	8.38	8.38																								0.00	
1	FY 08	AF	2.79	1.62	1.17	0.24	0.23	0.23	0.24	0.23																	0.00		
3	FY 09	AF	1.37	0.00	1.37	0.12	0.11	0.11	0.12	0.11	0.11	0.12	0.11	0.11	0.12	0.11												0.00	
1	FY 09	AF	0.05	0.00	0.05						0.05																	0.00	
2	FY 07	CG	3.06	3.06																								0.00	
1	FY 08	CG	0.50	0.29	0.21	0.05	0.04	0.04	0.04	0.04																	0.00		
						O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P

M F R	Name - Location	PRODUCTION RATES			Reached D+	MFR	ADMIN LEAD TIME		MFR After 1 Oct	TOTAL After 1 Oct	REMARKS SHARED LINE FOR ALL 5.56MM AMMUNITION PRODUCED AT LAKE CITY ARMY AMMUNITION PLANT
		MIN	1-8-5	MAX			Prior 1 Oct	After 1 Oct			
1	GENERAL DYNAMICS ORD& TAC SYS, ST PETERSBURG, FL		5.70	14.20		1	Initial	6	9	9	18
							Reorder	6	9	9	18
2	ALLIANT TECH (LCAAP), INDEPENDENCE, MO		19.40	67.50		2	Initial	6	4	9	13
							Reorder	6	4	9	13
3	TO BE SELECTED		19.40	67.50		3	Initial	6	4	9	13
							Reorder	6	4	9	13
							Initial				
							Reorder				
							Initial				
							Reorder				

<b>FY 10 / 11 BUDGET PRODUCTION SCHEDULE</b>	<b>P-1 ITEM NOMENCLATURE</b> CTG 5.56MM BALL M855 F/M16A2 (E04601)	Date: February 2008
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COST ELEMENTS						Fiscal Year 10												Fiscal Year 11												Later	
MFR	FY	S E R V	PROC QTY x1Mil	ACCEP PRIOR TO 1 OCT	BAL DUE AS OF 1 OCT	Calendar Year 10												Calendar Year 11													
						OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP		
2	FY 08	CG	1.50	1.50																											0.00
1	FY 09	CG	0.76	0.00	0.76								0.07	0.06	0.06	0.06	0.06	0.07	0.06	0.07	0.06	0.06	0.07	0.06						0.00	
3	FY 09	CG	2.30	0.00	2.30	0.19	0.19	0.19	0.20	0.19	0.19	0.19	0.20	0.19	0.19	0.19	0.19													0.00	
1	FY 07 P	MC	17.90	17.90																										0.00	
1	FY 07	MC	18.00	18.00																										0.00	
2	FY 07	MC	94.50	94.50																										0.00	
1	FY 08	MC	91.10	51.10	40.00	8.00	8.00	8.00	8.00	8.00																				0.00	
2	FY 08	MC	273.00	273.00																										0.00	
3	FY 09	MC	83.80	0.00	83.80	7.00	7.00	6.80	7.00	7.00	7.00	7.00	7.00	7.00	7.00	7.00														0.00	
2	FY 07	NS	4.02	4.02																										0.00	
2	FY 08	NS	7.13	7.13																										0.00	
1	FY 08	NS	2.38	1.40	0.98	0.20	0.20	0.18	0.20	0.20																				0.00	
3	FY 09	NS	9.17	0.00	9.17	0.77	0.76	0.76	0.77	0.76	0.77	0.76	0.76	0.76	0.77	0.76														0.00	
1	FY 09	NS	0.33	0.00	0.33						0.10	0.10	0.13																	0.00	
						OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP		

MFR	Name - Location	PRODUCTION RATES			Reached D+	MFR	ADMIN LEAD TIME		MFR After 1 Oct	TOTAL After 1 Oct	REMARKS	
		MIN	1-8-5	MAX			Prior 1 Oct	After 1 Oct				
1	GENERAL DYNAMICS ORD& TAC SYS, ST PETERSBURG, FL		5.70	14.20		1	Initial	6	9	9	18	SHARED LINE FOR ALL 5.56MM AMMUNITION PRODUCED AT LAKE CITY ARMY AMMUNITION PLANT
							Reorder	6	9	9	18	
2	ALLIANT TECH (LCAAP), INDEPENDENCE, MO		19.40	67.50		2	Initial	6	4	9	13	
							Reorder	6	4	9	13	
3	TO BE SELECTED		19.40	67.50		3	Initial	6	4	9	13	
							Reorder	6	4	9	13	
							Initial					
							Reorder					
							Initial					
							Reorder					



**FY 10 / 11 BUDGET PRODUCTION SCHEDULE**

P-1 ITEM NOMENCLATURE  
 CTG 5.56MM BALL M855 F/M16A2 (E04601)

Date: February 2008

COST ELEMENTS						Fiscal Year 10													Fiscal Year 11													Later				
MFR	FY	SERV	PROC QTY x1Mil	ACCEP PRIOR TO 1 OCT	BAL DUE AS OF 1 OCT	Calendar Year 10													Calendar Year 11																	
						OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP							
2	FY 07	SOF	9.00	9.00																																0.00
1	FY 08	SOF	1.50	0.91	0.59	0.13	0.13	0.10	0.13	0.10																									0.00	
2	FY 08	SOF	4.50	4.50																															0.00	
1	FY 09	SOF	0.21	0.00	0.21						0.02	0.02	0.02	0.02	0.01	0.02	0.02	0.02	0.02	0.02	0.02	0.01	0.02	0.01										0.00		
3	FY 09	SOF	5.79	0.00	5.79	0.49	0.48	0.47	0.49	0.48	0.49	0.48	0.49	0.48	0.47	0.49	0.48																	0.00		
Total			1168.14	887.81	280.33	30.19	30.14	28.88	30.19	30.11	18.81	18.72	18.79	18.62	18.20	18.66	18.62	0.09	0.08	0.07	0.09	0.07														
						OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP							

MFR	Name - Location	PRODUCTION RATES			Reached D+	MFR		ADMIN LEAD TIME		MFR After 1 Oct	TOTAL After 1 Oct	REMARKS
		MIN	1-8-5	MAX				Prior 1 Oct	After 1 Oct			
1	GENERAL DYNAMICS ORD& TAC SYS, ST PETERSBURG, FL		5.70	14.20		1	Initial	6	9	9	18	SHARED LINE FOR ALL 5.56MM AMMUNITION PRODUCED AT LAKE CITY ARMY AMMUNITION PLANT
								6	9	9	18	
2	ALLIANT TECH (LCAAP), INDEPENDENCE, MO		19.40	67.50		2	Initial	6	4	9	13	
								6	4	9	13	
3	TO BE SELECTED		19.40	67.50		3	Initial	6	4	9	13	
								6	4	9	13	
							Initial					
							Reorder					
							Initial					
							Reorder					

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

Date: February 2008

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

P-1 Item Nomenclature  
CTG 5.56MM TRACER M856 F/M16A2 (E04602)

Program Elements for Code B Items:

Code:  
A

Other Related Program Elements:

	Prior Years	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013	To Complete	Total Prog
Proc Qty	196328	30801	27086	22286	22006	21894	19530	19367		359298
Gross Cost	64.2	12.8	10.0	10.3	10.5	10.7	9.8	9.9		138.0
Less PY Adv Proc										
Plus CY Adv Proc										
Net Proc P1	64.2	12.8	10.0	10.3	10.5	10.7	9.8	9.9		138.0
Initial Spares										
Total Proc Cost	64.2	12.8	10.0	10.3	10.5	10.7	9.8	9.9		138.0
Flyaway U/C										
Weapon System Proc U/C										

**Description:**

The 5.56mm, M856 tracer cartridge's bullet delivers a visible red light signature through its trajectory. An orange-colored tip identifies the cartridge. The cartridge is intended for use in M16 series Rifles as well as M4 series Carbines. This item is Code A, approved for service use.

**Justification:**

This is a training standard item used in both training and combat. FY 2009 procurement supports annual training and builds a war reserve in accordance with the Army's procurement goals.

TYPE CLASSIFICATION DATE: 1982

<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 TRACER M856 F/M16A2 (E04602)			Weapon System Type:		Date: February 2008	
<b>AMMO Cost Elements</b>		ID CD	<b>FY 07</b>			<b>FY 08</b>			<b>FY 09</b>		
			Total Cost \$000	Qty x1000	Unit Cost \$	Total Cost \$000	Qty x1000	Unit Cost \$	Total Cost \$000	Qty x1000	Unit Cost \$
<b>HARDWARE</b>											
LOAD, ASSEMBLE, PACK			9902	30801	0.32	9190	27086	0.34	9371	22286	0.42
BOX METAL M2A1			351	38	9.19	364	33588	10.83	306	27	11.18
<b>H/W SUBTOTAL</b>			<b>10253</b>			<b>9554</b>			<b>9677</b>		
<b>PRODUCTION SUPPORT COSTS</b>											
PRODUCTION ENGINEERING			452			419			557		
QUALITY ASSURANCE			8			5			3		
ACCEPTANCE TESTING			26			18			18		
<b>PROD SUPPORT SUBTOTAL</b>			<b>486</b>			<b>442</b>			<b>578</b>		
<b>NON-RECURRING COSTS</b>											
GREEN AMMO CONVERSION			707								
ENGINEERING SUPPORT			706								
ATK INTELLECTUAL PROP SETTLEMENT			382								
LETHALITY STUDY			240								
<b>NON-RECURRING SUBTOTAL</b>			<b>2035</b>								
<b>Total:</b>			<b>12774</b>		<b>0.41</b>	<b>9996</b>		<b>0.37</b>	<b>10255</b>		<b>0.46</b>

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

Date:  
February 2008

Appropriation/Budget Activity/Serial No: Procurement of Ammunition, Army/ 1/ Ammunition	Weapon System Type:	P-1 Line Item Nomenclature: CTG 5.56MM TRACER M856 F/M16A2 (E04602)								
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>LOAD, ASSEMBLE, PACK</b>										
FY 2007	ALLIANT TECH (LCAAP) INDEPENDENCE, MO	SS/FP	ROCK ISLAND, IL	Jan 07	Feb 08	30801	0.32			
FY 2008	ALLIANT TECH (LCAAP) INDEPENDENCE, MO	SS/FP	ROCK ISLAND, IL	Jan 08	Oct 08	27086	0.34	Y		
FY 2009	TO BE SELECTED	OTHER	ROCK ISLAND, IL	Jan 09	Oct 09	22286	0.42	Y		
<b>BOX METAL M2A1</b>										
FY 2007	BWAY CORPORATION ATLANTA, GA	C/OPTION	ROCK ISLAND, IL	Mar 07	Sep 07	30	9.19			
FY 2007	BEST FOAM FAB CHICAGO, IL	C/OPTION	ROCK ISLAND, IL	Jul 07	Sep 07	8	9.19			
FY 2008	BWAY CORPORATION ATLANTA, GA	C/OPTION	ROCK ISLAND, IL	Mar 08	Sep 08	27	10.83	Y		
FY 2008	BEST FOAM FAB CHICAGO, IL	C/OPTION	ROCK ISLAND, IL	Jun 08	Sep 08	7	10.83	Y		
FY 2009	BWAY CORPORATION ATLANTA, GA	C/OPTION	ROCK ISLAND, IL	Mar 09	Sep 09	22	11.18	Y		
FY 2009	BEST FOAM FAB CHICAGO, IL	C/OPTION	ROCK ISLAND, IL	Jun 09	Sep 09	5	11.18	Y		

REMARKS: OTHER - COMPETITION STRATEGY IS BEING FINALIZED.

FY 2008 - FY 2009 BOX METAL M2A1 IS AN AVERAGE UNIT COST FOR MULTIPLE PRODUCERS.

<b>FY 08 / 09 BUDGET PRODUCTION SCHEDULE</b>	P-1 ITEM NOMENCLATURE CTG 5.56MM TRACER M856 F/M16A2 (E04602)	Date: February 2008
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COST ELEMENTS						Fiscal Year 08														Fiscal Year 09														Later
M F R	FY	S E R V	PROC QTY x1Mil	ACCEP PRIOR TO 1 OCT	BAL DUE AS OF 1 OCT	Calendar Year 08														Calendar Year 09														
						O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P					

LOAD, ASSEMBLE, PACK																																
1	FY 07 P	A	33.00	20.90	12.10	3.60	3.30	2.10	3.00	0.10																						0.00
1	FY 07	A	30.80	0.00	30.80					4.60	3.70	3.60	4.10	3.90	3.90	4.10	2.90															0.00
1	FY 08	A	27.10	0.00	27.10				A									2.30	2.30	2.30	2.30	2.30	2.30	2.30	2.30	2.20	2.20	2.20	2.20	2.20	2.20	0.00
2	FY 09	A	22.30	0.00	22.30																	A									22.30	
Total			113.20	20.90	92.30	3.60	3.30	2.10	3.00	4.70	3.70	3.60	4.10	3.90	3.90	4.10	2.90	2.30	2.30	2.30	2.30	2.30	2.30	2.30	2.20	2.20	2.20	2.20	2.20	2.20	22.30	
						O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P			

M F R	Name - Location	PRODUCTION RATES			Reached D+	MFR	ADMIN LEAD TIME		MFR After 1 Oct	TOTAL After 1 Oct	REMARKS SHARED LINE FOR ALL 5.56MM AMMUNITION PRODUCED AT LAKE CITY ARMY AMMUNITION PLANT	
		MIN	1-8-5	MAX			Prior 1 Oct	After 1 Oct				
		1	2	3			4	5				
1	ALLIANT TECH (LCAAP), INDEPENDENCE, MO		2.80	9.80		1	Initial	6	4	9	13	
						1	Reorder	6	4	9	13	
2	TO BE SELECTED		2.80	9.80		2	Initial	6	4	9	13	
						2	Reorder	6	4	9	13	
						2	Initial					
						2	Reorder					
						2	Initial					
						2	Reorder					

**FY 10 / 11 BUDGET PRODUCTION SCHEDULE**

P-1 ITEM NOMENCLATURE  
CTG 5.56MM TRACER M856 F/M16A2 (E04602)

Date: February 2008

COST ELEMENTS					Fiscal Year 10													Fiscal Year 11													Later							
MFR	FY	SERV	PROC QTY x1Mil	ACCEP PRIOR TO 1 OCT	BAL DUE AS OF 1 OCT	Calendar Year 10													Calendar Year 11																			
						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, PACK																																						
1	FY 07 P	A	33.00	33.00																															0.00			
1	FY 07	A	30.80	30.80																															0.00			
1	FY 08	A	27.10	27.10																															0.00			
2	FY 09	A	22.30	0.00	22.30	1.90	1.90	1.90	1.90	1.90	1.90	1.90	1.80	1.80	1.80	1.80	1.80																		0.00			
Total						113.20	90.90	22.30	1.90	1.90	1.90	1.90	1.90	1.90	1.80	1.80	1.80	1.80	1.80																			

MFR	Name - Location	PRODUCTION RATES			Reached D+	MFR	ADMIN LEAD TIME		MFR After 1 Oct	TOTAL After 1 Oct	REMARKS	
		MIN	1-8-5	MAX			Prior 1 Oct	After 1 Oct				
1	ALLIANT TECH (LCAAP), INDEPENDENCE, MO		2.80	9.80		1	Initial	6	4	9	13	SHARED LINE FOR ALL 5.56MM AMMUNITION PRODUCED AT LAKE CITY ARMY AMMUNITION PLANT
						Reorder	6	4	9	13		
2	TO BE SELECTED		2.80	9.80		2	Initial	6	4	9	13	
						Reorder	6	4	9	13		
						Initial						
						Reorder						
						Initial						
						Reorder						

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

Date: February 2008

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:  
A

Other Related Program Elements:

	Prior Years	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013	To Complete	Total Prog
Proc Qty	339508	41662	9335	9235	8924	9190	11127	11143		440124
Gross Cost	97.3	14.9	5.5	5.6	5.7	5.9	6.0	6.1		147.0
Less PY Adv Proc										
Plus CY Adv Proc										
Net Proc P1	97.3	14.9	5.5	5.6	5.7	5.9	6.0	6.1		147.0
Initial Spares										
Total Proc Cost	97.3	14.9	5.5	5.6	5.7	5.9	6.0	6.1		147.0
Flyaway U/C										
Weapon System Proc U/C										

**Description:**

The 5.56mm, Squad Automatic Weapon (SAW) ball round, M855, has a steel, conical insert and a lead antimony alloy cylindrical core in a copper alloy jacket of the bullet. This round is linked in 200-round belts using the M27 link. This round is used primarily in areas where a fire hazard exists if the tracer round were used. This item is code A, approved for service use.

**Justification:**

This is a training unique item not used in combat. FY 2009 procurement supports annual training and builds a depot level in accordance with the Army's procurement goals.

TYPE CLASSIFICATION DATE: 1982

Exhibit P-5, Weapon AMMO Cost Analysis		Appropriation/Budget Activity/Serial No: Procurement of Ammunition, Army / 1 / Ammunition			P-1 Line Item Nomenclature: CTG 5.56MM BALL M855 LINKED F/SAW (E04603)			Weapon System Type:		Date: February 2008	
AMMO Cost Elements		ID CD	FY 07			FY 08			FY 09		
			Total Cost \$000	Qty x1000	Unit Cost \$	Total Cost \$000	Qty x1000	Unit Cost \$	Total Cost \$000	Qty x1000	Unit Cost \$
<b>HARDWARE</b>											
COMPLETE ROUND			11761	41662	0.28	3759	9335	0.40	4298	9235	0.47
<b>H/W SUBTOTAL</b>			<b>11761</b>			<b>3759</b>			<b>4298</b>		
<b>PRODUCTION SUPPORT COSTS</b>											
PRODUCTION ENGINEERING			3			492			303		
QUALITY ASSURANCE						8			6		
ACCEPTANCE TESTING			1			29			28		
<b>PROD SUPPORT SUBTOTAL</b>			<b>4</b>			<b>529</b>			<b>337</b>		
<b>NON-RECURRING COSTS</b>											
PLANT MODERNIZATION						700					
GREEN AMMO CONVERSION			2785								
ATK INTELLECTUAL PROP SETTLEMENT			366								
PRODUCT IMPROVEMENT						500			1000		
<b>NON-RECURRING SUBTOTAL</b>			<b>3151</b>			<b>1200</b>			<b>1000</b>		
<b>Total:</b>			<b>14916</b>		<b>0.36</b>	<b>5488</b>		<b>0.59</b>	<b>5635</b>		<b>0.61</b>



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

Date:  
February 2008

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 \$000	Specs Avail Now?	Date Revsn Avail	RFP Issue Date
<b>COMPLETE ROUND</b>										
FY 2007	ALLIANT TECH (LCAAP) INDEPENDENCE, MO	SS/FP	ROCK ISLAND, IL	Jan 07	Aug 07	41662	0.28			
FY 2008	ALLIANT TECH (LCAAP) INDEPENDENCE, MO	SS/FP	ROCK ISLAND, IL	Jan 08	Oct 08	9335	0.40	Y		
FY 2009	TO BE SELECTED	OTHER	ROCK ISLAND, IL	Jan 09	Oct 09	9235	0.47	Y		

REMARKS: OTHER - COMPETITION STRATEGY IS BEING FINALIZED

<b>FY 08 / 09 BUDGET PRODUCTION SCHEDULE</b>	P-1 ITEM NOMENCLATURE CTG 5.56MM BALL M855 LINKED F/SAW (E04603)	Date: February 2008
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COST ELEMENTS						Fiscal Year 08												Fiscal Year 09												Later
M F R	FY	S E R V	PROC QTY x1Mil	ACCEP PRIOR TO 1 OCT	BAL DUE AS OF 1 OCT	Calendar Year 08												Calendar Year 09												
						O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	

<b>COMPLETE ROUND</b>																																				
1	FY 07	A	41.70	12.20	29.50	2.70	2.30	1.80	2.60	2.50	3.10	2.60	2.50	2.50	2.20	2.50	2.20																			0.00
1	FY 08	A	9.34	0.00	9.34				A									0.78	0.78	0.78	0.78	0.78	0.78	0.78	0.78	0.78	0.78	0.78	0.78	0.78	0.78	0.78	0.78	0.78	0.78	0.00
2	FY 09	A	9.24	0.00	9.24																A															9.24
2	FY 09	AF	1.07	0.00	1.07																															1.07
1	FY 07	MC	0.88	0.78	0.10	0.10																														0.00
1	FY 08	MC	0.30	0.00	0.30													0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.00	
2	FY 09	MC	2.23	0.00	2.23																															2.23
2	FY 09	SOF	0.40	0.00	0.40																															0.40
<b>Total</b>			65.16	12.98	52.18	2.80	2.30	1.80	2.60	2.50	3.10	2.60	2.50	2.50	2.20	2.50	2.20	0.81	0.81	0.81	0.81	0.81	0.81	0.81	0.81	0.81	0.81	0.81	0.81	0.81	0.81	0.81	0.81	0.81	12.94	
						O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P							

M F R	Name - Location	PRODUCTION RATES			Reached D+	MFR	ADMIN LEAD TIME		MFR After 1 Oct	TOTAL After 1 Oct	REMARKS SHARED LINE FOR ALL 5.56MM AMMUNITION PRODUCED AT LAKE CITY ARMY AMMUNITION PLANT				
		MIN	1-8-5	MAX			1	Initial				6	4	9	13
1	ALLIANT TECH (LCAAP), INDEPENDENCE, MO		15.08	52.10		1	Initial	6	4	9	13				
							Reorder	6	4	9	13				
2	TO BE SELECTED		15.08	52.10		2	Initial	6	4	9	13				
							Reorder	6	4	9	13				
							Initial								
							Reorder								
							Initial								
							Reorder								

<b>FY 10 / 11 BUDGET PRODUCTION SCHEDULE</b>	P-1 ITEM NOMENCLATURE CTG 5.56MM BALL M855 LINKED F/SAW (E04603)	Date: February 2008
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COST ELEMENTS						Fiscal Year 10												Fiscal Year 11												Later
M F R	FY	S E R V	PROC QTY x1Mil	ACCEP PRIOR TO 1 OCT	BAL DUE AS OF 1 OCT	Calendar Year 10												Calendar Year 11												
						O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	

COMPLETE ROUND																																				
1	FY 07	A	41.70	41.70																																0.00
1	FY 08	A	9.34	9.34																																0.00
2	FY 09	A	9.24	0.00	9.24	0.77	0.77	0.77	0.77	0.77	0.77	0.77	0.77	0.77	0.77	0.77																			0.00	
2	FY 09	AF	1.07	0.00	1.07	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.08																			0.00	
1	FY 07	MC	0.88	0.88																															0.00	
1	FY 08	MC	0.30	0.30																															0.00	
2	FY 09	MC	2.23	0.00	2.23	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.14																			0.00	
2	FY 09	SOF	0.40	0.00	0.40	0.04	0.04	0.04	0.04	0.03	0.03	0.03	0.03	0.03	0.03	0.03																			0.00	
Total			65.16	52.22	12.94	1.09	1.09	1.09	1.09	1.08	1.08	1.08	1.08	1.08	1.08	1.02																				
						O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P							

M F R	Name - Location	PRODUCTION RATES			Reached D+	MFR	ADMIN LEAD TIME		MFR After 1 Oct	TOTAL After 1 Oct	REMARKS SHARED LINE FOR ALL 5.56MM AMMUNITION PRODUCED AT LAKE CITY ARMY AMMUNITION PLANT
		MIN	1-8-5	MAX			Prior 1 Oct	After 1 Oct			
1	ALLIANT TECH (LCAAP), INDEPENDENCE, MO		15.08	52.10		1	6	4	9	13	
							6	4	9	13	
2	TO BE SELECTED		15.08	52.10		2	6	4	9	13	
							6	4	9	13	

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

Date: February 2008

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

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

Program Elements for Code B Items:

Code:  
A

Other Related Program Elements:

	Prior Years	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013	To Complete	Total Prog
Proc Qty	999135	36687	44585	53809	52347	51419	58766	58987		1355735
Gross Cost	373.4	21.5	22.6	28.3	28.4	28.6	32.6	33.4		568.9
Less PY Adv Proc										
Plus CY Adv Proc										
Net Proc P1	373.4	21.5	22.6	28.3	28.4	28.6	32.6	33.4		568.9
Initial Spares										
Total Proc Cost	373.4	21.5	22.6	28.3	28.4	28.6	32.6	33.4		568.9
Flyaway U/C										
Weapon System Proc U/C										

**Description:**

The 5.56mm, M855 Ball Cartridge and the M856 Tracer Cartridges are linked in a 4-ball/1-tracer configuration with the M27 link for use in the M249 Machine Gun. The cartridges are linked in a 200-round belt and packed in a plastic ammunition magazine that attaches directly to the weapon. The M855 Ball Cartridge has a bullet with conical steel insert and a lead antimony alloy cylindrical core in a copper alloy jacket. A green-colored tip identifies the ball cartridge and an orange tip identifies the trace cartridge. The 5.56mm, M856 tracer cartridge's bullet delivers a visible red light signature through its trajectory. It is ballistically matched to the M855 cartridges. This item is Code A, approved for service use.

**Justification:**

This is a training standard item used in both training and combat. FY 2009 procurement supports annual training and builds a war reserve in accordance with the Army's procurement goals.

TYPE CLASSIFICATION DATE: 1982

Exhibit P-5, Weapon AMMO Cost Analysis	Appropriation/Budget Activity/Serial No: Procurement of Ammunition, Army / 1 / Ammunition	P-1 Line Item Nomenclature: CTG 5.56MM 4 BALL M855/1 TRACER M856 F/SAW (E04604)			Weapon System Type:	Date: February 2008				
AMMO Cost Elements	ID	FY 07			FY 08			FY 09		
	CD	Total Cost	Qty	Unit Cost	Total Cost	Qty	Unit Cost	Total Cost	Qty	Unit Cost
		\$000	x1000	\$	\$000	x1000	\$	\$000	x1000	\$
<b>HARDWARE</b>										
COMPLETE ROUND		16520	36687	0.45	21717	44585	0.49	26765	53809	0.50
<b>H/W SUBTOTAL</b>		<b>16520</b>			<b>21717</b>			<b>26765</b>		
<b>PRODUCTION SUPPORT COSTS</b>										
PRODUCTION ENGINEERING		836			795			1476		
QUALITY ASSURANCE		19			45			9		
ACCEPTANCE TESTING		36			40			13		
<b>PROD SUPPORT SUBTOTAL</b>		<b>891</b>			<b>880</b>			<b>1498</b>		
<b>NON-RECURRING COSTS</b>										
PRODUCT IMPROVEMENT		127								
ENGINEERING SUPPORT		2182								
ATK INTELLECTUAL PROP SETTLEMENT		638								
LETHALITY STUDY		1180								
<b>NON-RECURRING SUBTOTAL</b>		<b>4127</b>								
<b>Total:</b>		<b>21538</b>		<b>0.59</b>	<b>22597</b>		<b>0.51</b>	<b>28263</b>		<b>0.53</b>

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

Date:  
February 2008

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 \$000	Specs Avail Now?	Date Revsn Avail	RFP Issue Date
<b>COMPLETE ROUND</b>										
FY 2007	ALLIANT TECH (LCAAP) INDEPENDENCE, MO	SS/FP	ROCK ISLAND, IL	Jan 07	May 08	36687	0.45			
FY 2008	ALLIANT TECH (LCAAP) INDEPENDENCE, MO	SS/FP	ROCK ISLAND, IL	Jan 08	Oct 08	44585	0.49	Y		
FY 2009	TO BE SELECTED	OTHER	ROCK ISLAND, IL	Jan 09	Oct 09	53809	0.50	Y		

REMARKS: OTHER - COMPETITION STRATEGY IS BEING FINALIZED.

<b>FY 08 / 09 BUDGET PRODUCTION SCHEDULE</b>	P-1 ITEM NOMENCLATURE CTG 5.56MM 4 BALL M855/1 TRACER M856 F/SAW (E04604)	Date: February 2008
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COST ELEMENTS						Fiscal Year 08												Fiscal Year 09												Later
M F R	FY	S E R V	PROC QTY x1000	ACCEP PRIOR TO 1 OCT	BAL DUE AS OF 1 OCT	Calendar Year 08												Calendar Year 09												
						O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	

COMPLETE ROUND																																	
1	FY 07 P	A	76.40	58.40	18.00	6.90	0.82			4.30	5.98																			0.00			
2	FY 07 P	A	68.90	11.00	57.90	10.00	8.10	8.50	13.00	1.60	6.10	8.00	2.60																		0.00		
2	FY 07	A	36.70	0.00	36.70								2.70	8.40	6.70	4.90	14.00														0.00		
2	FY 08	A	44.60	0.00	44.60				A									3.70	3.70	3.70	3.70	3.70	3.70	3.70	3.70	3.70	3.70	3.70	3.70	3.90	0.00		
3	FY 09	A	53.80	0.00	53.80																				A					53.80			
2	FY 07	AF	1.02	0.00	1.02	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.32																		0.00		
1	FY 08	AF	0.51	0.00	0.51																						0.04	0.04	0.04	0.04	0.04	0.04	0.23
2	FY 08	AF	1.52	0.00	1.52													0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.12	0.12	0.12	0.12	0.00	
1	FY 09	AF	0.05	0.00	0.05																										0.05		
3	FY 09	AF	1.94	0.00	1.94																										1.94		
2	FY 07	MC	3.79	0.00	3.79	0.31	0.31	0.31	0.31	0.31	0.32	0.32	0.32	0.32	0.32	0.32	0.32														0.00		
						O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P				

M F R	Name - Location	PRODUCTION RATES			Reached D+	MFR	ADMIN LEAD TIME		MFR After 1 Oct	TOTAL After 1 Oct	REMARKS
		MIN	1-8-5	MAX			Prior 1 Oct	After 1 Oct			
1	GENERAL DYNAMICS ORD& TAC SYS, ST PETERSBURG, FL		3.30	8.30		1	6	9	9	18	SHARED LINE FOR ALL 5.56MM AMMUNITION PRODUCED AT LAKE CITY ARMY AMMUNITION PLANT. FY2007 DELIVERIES FOR ATK MAINTAIN CONTINUITY OF PRODUCTION.
						2	6	9	9	18	
2	ALLIANT TECH (LCAAP), INDEPENDENCE, MO		11.50	39.30		1	6	4	9	13	
						2	6	4	9	13	
3	TO BE SELECTED		11.50	39.30		1	6	4	9	13	
						2	6	4	9	13	
						3	6	4	9	13	
						1	6	4	9	13	
						2	6	4	9	13	
						3	6	4	9	13	





<b>FY 10 / 11 BUDGET PRODUCTION SCHEDULE</b>	P-1 ITEM NOMENCLATURE CTG 5.56MM 4 BALL M855/1 TRACER M856 F/SAW (E04604)	Date: February 2008
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COST ELEMENTS					Fiscal Year 10													Fiscal Year 11													Later	
M F R	FY	S E R V	PROC QTY x1000	ACCEP PRIOR TO 1 OCT	BAL DUE AS OF 1 OCT	Calendar Year 10													Calendar Year 11													
						O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P			

COMPLETE ROUND																															
1	FY 07 P	A	76.40	76.40																											0.00
2	FY 07 P	A	68.90	68.90																											0.00
2	FY 07	A	36.70	36.70																											0.00
2	FY 08	A	44.60	44.60																											0.00
3	FY 09	A	53.80	0.00	53.80	4.50	4.50	4.50	4.50	4.50	4.50	4.50	4.50	4.50	4.50	4.30															0.00
2	FY 07	AF	1.02	1.02																											0.00
1	FY 08	AF	0.51	0.28	0.23	0.04	0.04	0.05	0.05	0.05																					0.00
2	FY 08	AF	1.52	1.52																											0.00
1	FY 09	AF	0.05	0.00	0.05						0.05																				0.00
3	FY 09	AF	1.94	0.00	1.94	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.17	0.17															0.00
2	FY 07	MC	3.79	3.79																											0.00
						O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P		

M F R	Name - Location	PRODUCTION RATES			Reached D+	MFR	ADMIN LEAD TIME		MFR After 1 Oct	TOTAL After 1 Oct	REMARKS	
		MIN	1-8-5	MAX			Prior 1 Oct	After 1 Oct				
1	GENERAL DYNAMICS ORD& TAC SYS, ST PETERSBURG, FL		3.30	8.30		1	Initial	6	9	9	18	SHARED LINE FOR ALL 5.56MM AMMUNITION PRODUCED AT LAKE CITY ARMY AMMUNITION PLANT. FY2007 DELIVERIES FOR ATK MAINTAIN CONTINUITY OF PRODUCTION.
							Reorder	6	9	9	18	
2	ALLIANT TECH (LCAAP), INDEPENDENCE, MO		11.50	39.30		2	Initial	6	4	9	13	
							Reorder	6	4	9	13	
3	TO BE SELECTED		11.50	39.30		3	Initial	6	4	9	13	
							Reorder	6	4	9	13	
							Initial					
							Reorder					
							Initial					
							Reorder					

FY 10 / 11 BUDGET PRODUCTION SCHEDULE																		P-1 ITEM NOMENCLATURE CTG 5.56MM 4 BALL M855/1 TRACER M856 F/SAW (E04604)							Date: February 2008									
COST ELEMENTS					Fiscal Year 10													Fiscal Year 11																
M F R	FY	S E R V	PROC QTY x1000	ACCEP PRIOR TO 1 OCT	BAL DUE AS OF 1 OCT	Calendar Year 10																Calendar Year 11												Later
						O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P					
2	FY 08	MC	40.70	40.70																											0.00			
3	FY 09	MC	33.00	0.00	33.00	2.80	2.80	2.80	2.80	2.80	2.80	2.80	2.80	2.80	2.80	2.80	2.80														0.00			
2	FY 08	SOF	2.00	2.00																										0.00				
<b>Total</b>						364.93	275.91	89.02	7.50	7.50	7.51	7.51	7.51	7.51	7.51	7.46	7.46	7.46	7.46	7.47	6.67													
						O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P					

M F R	Name - Location	PRODUCTION RATES			Reached D+	MFR	ADMIN LEAD TIME		MFR After 1 Oct	TOTAL After 1 Oct	REMARKS		
		MIN	1-8-5	MAX			Prior 1 Oct	After 1 Oct					
1	GENERAL DYNAMICS ORD& TAC SYS, ST PETERSBURG, FL		3.30	8.30		1	Initial	6	9	9	18	SHARED LINE FOR ALL 5.56MM AMMUNITION PRODUCED AT LAKE CITY ARMY AMMUNITION PLANT. FY2007 DELIVERIES FOR ATK MAINTAIN CONTINUITY OF PRODUCTION.	
						Reorder	6	9	9	18			
2	ALLIANT TECH (LCAAP), INDEPENDENCE, MO		11.50	39.30		2	Initial	6	4	9	13		
						Reorder	6	4	9	13			
3	TO BE SELECTED		11.50	39.30		3	Initial	6	4	9	13		
						Reorder	6	4	9	13			
							Initial						
							Reorder						
							Initial						
							Reorder						

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

Date: February 2008

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

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

Program Elements for Code B Items:

Code:  
A

Other Related Program Elements:

	Prior Years	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013	To Complete	Total Prog
Proc Qty	659324	177206	167015	138641	142476	165387	144479	146981		1741509
Gross Cost	152.9	41.2	41.4	42.6	43.5	51.3	46.0	47.7		466.6
Less PY Adv Proc										
Plus CY Adv Proc										
Net Proc P1	152.9	41.2	41.4	42.6	43.5	51.3	46.0	47.7		466.6
Initial Spares										
Total Proc Cost	152.9	41.2	41.4	42.6	43.5	51.3	46.0	47.7		466.6
Flyaway U/C										
Weapon System Proc U/C										

**Description:**

The 5.56mm, M855 Ball cartridge has a bullet with a concealed steel insert and a lead antimony alloy cylindrical core in a copper alloy jacket. A green tip identifies this cartridge. It is used in the M16 Series Rifle and the M4A1 Carbine. This item is Code A, approved for service use.

**Justification:**

This is a training standard item used in training and combat. However, due to the commercial pack, it is used primarily for CONUS-based training. FY 2009 procurement supports annual training.

TYPE CLASSIFICATION DATE: 1982

<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 (Commercial Pack) (E95901)			Weapon System Type:		Date: February 2008	
<b>AMMO Cost Elements</b>		ID CD	<b>FY 07</b>			<b>FY 08</b>			<b>FY 09</b>		
			Total Cost \$000	Qty Units	Unit Cost \$000	Total Cost \$000	Qty Units	Unit Cost \$000	Total Cost \$000	Qty Units	Unit Cost \$000
<b>HARDWARE</b>											
COMPLETE ROUND			36877	177206	0.21	37628	167015	0.23	38930	138641	0.28
<b>H/W SUBTOTAL</b>			<b>36877</b>			<b>37628</b>			<b>38930</b>		
<b>PRODUCTION SUPPORT COSTS</b>											
PRODUCTION ENGINEERING			1376			1270			2313		
QUALITY ASSURANCE			8			10			5		
ACCEPTANCE TESTING			132			90			25		
<b>PROD SUPPORT SUBTOTAL</b>			<b>1516</b>			<b>1370</b>			<b>2343</b>		
<b>NON-RECURRING COSTS</b>											
GREEN AMMO CONVERSION									1300		
ENGINEERING SUPPORT			1177								
ATK INTELLECTUAL PROP SETTLEMENT			1418								
LETHALITY STUDY						2400					
MALFUNCTION INVESTIGATION			33								
PRODUCT IMPROVEMENT			190								
<b>NON-RECURRING SUBTOTAL</b>			<b>2818</b>			<b>2400</b>			<b>1300</b>		
<b>Total:</b>			<b>41211</b>		<b>0.23</b>	<b>41398</b>		<b>0.25</b>	<b>42573</b>		<b>0.31</b>

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

Date:  
February 2008

Appropriation/Budget Activity/Serial No: Procurement of Ammunition, Army/ 1/ Ammunition		Weapon System Type:	P-1 Line Item Nomenclature: CTG, 5.56MM Ball, M855 (Commercial Pack) (E95901)							
WBS Cost Elements:	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY x1000	Unit Cost \$000	Specs Avail Now?	Date Revsn Avail	RFP Issue Date
<b>COMPLETE ROUND</b>										
FY 2007	ALLIANT TECH (LCAAP) INDEPENDENCE, MO	SS/FP	ROCK ISLAND, IL	Jan 07	Oct 07	177206	0.21			
FY 2008	ALLIANT TECH (LCAAP) INDEPENDENCE, MO	SS/FP	ROCK ISLAND, IL	Jan 08	Oct 08	167015	0.23	Y		
FY 2009	TO BE SELECTED	OTHER	ROCK ISLAND, IL	Jan 09	Oct 09	138641	0.28	Y		

REMARKS: OTHER - COMPETITION STRATEGY IS BEING FINALIZED.

<b>FY 08 / 09 BUDGET PRODUCTION SCHEDULE</b>	P-1 ITEM NOMENCLATURE CTG, 5.56MM Ball, M855 (Commercial Pack) (E95901)	Date: February 2008
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COST ELEMENTS						Fiscal Year 08												Fiscal Year 09												Later
M F R	FY	S E R V	PROC QTY x1Mil	ACCEP PRIOR TO 1 OCT	BAL DUE AS OF 1 OCT	Calendar Year 08												Calendar Year 09												
						O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	

COMPLETE ROUND																														
1	FY 07	A	170.0	161.0	9.0	9.0																						0.0		
1	FY 07	A	177.0	0.0	177.0	8.0	12.0	15.0	18.0	17.0	16.0	17.0	15.0	16.0	14.0	15.0	14.0												0.0	
1	FY 08	A	167.0	0.0	167.0				A									14.0	14.0	13.0	14.0	14.0	14.0	14.0	14.0	14.0	14.0	14.0	14.0	0.0
2	FY 09	A	139.0	0.0	139.0																A								139.0	
Total			653.0	161.0	492.0	17.0	12.0	15.0	18.0	17.0	16.0	17.0	15.0	16.0	14.0	15.0	14.0	14.0	14.0	13.0	14.0	14.0	14.0	14.0	14.0	14.0	14.0	14.0	14.0	139.0
						O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	

M F R	Name - Location	PRODUCTION RATES			Reached D+	MFR	ADMIN LEAD TIME		MFR After 1 Oct	TOTAL After 1 Oct	REMARKS
		MIN	1-8-5	MAX			Prior 1 Oct	After 1 Oct			
1	ALLIANT TECH (LCAAP), INDEPENDENCE, MO		19.4	67.5		1	6	4	9	13	SHARED LINE FOR ALL 5.56MM AMMUNITION PRODUCED AT LAKE CITY ARMY AMMUNITION PLANT
							6	4	9	13	
2	TO BE SELECTED		19.4	67.5	6.0	2	6	4	9	13	
							6	4	9	13	



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

Date: February 2008

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

P-1 Item Nomenclature  
CTG, 5.56MM MARKING, XM1042 (BLUE) (E96110)

Program Elements for Code B Items:

Code:  
B

Other Related Program Elements:

	Prior Years	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013	To Complete	Total Prog
Proc Qty			11757	10955	10760	11438	11175	10999		67084
Gross Cost			6.6	6.7	6.7	7.3	7.3	7.4		42.0
Less PY Adv Proc										
Plus CY Adv Proc										
Net Proc P1			6.6	6.7	6.7	7.3	7.3	7.4		42.0
Initial Spares										
Total Proc Cost			6.6	6.7	6.7	7.3	7.3	7.4		42.0
Flyaway U/C										
Weapon System Proc U/C										

**Description:**

The 5.56mm, Marking, XM1042 is a short range training round to provide dismounted infantry with more realistic training. The cartridge can be fired with existing M4 Carbine and the M16A2 series Rifles with the use of a conversion bolt. The projectile leaves a mark upon impact (similar to paintball), thus enabling after action evaluation of training scenarios. However, it differs from paintball in that it is a full complete cartridge with projectile and cartridge case containing a propulsion system for a low velocity launch. The cartridge will be safety certified to be fired in close proximity at properly protected human subjects. This item is Code B, approved for service use.

**Justification:**

This is a training unique item not used in combat. The FY 2009 procurement supports annual training and builds a depot level in accordance with the Army's procurement goals. As production increases and training scenarios evolve, this cartridge will replace some procurement of blank ammunition, and provide Force on Force training engagements.



Exhibit P-5, Weapon AMMO Cost Analysis	Appropriation/Budget Activity/Serial No: Procurement of Ammunition, Army / 1 / Ammunition	P-1 Line Item Nomenclature: CTG, 5.56MM MARKING, XM1042 (BLUE) (E96110)			Weapon System Type:	Date: February 2008					
AMMO Cost Elements		ID CD	FY 07			FY 08			FY 09		
			Total Cost	Qty	Unit Cost	Total Cost	Qty	Unit Cost	Total Cost	Qty	Unit Cost
			\$000	Units	\$000	\$000	Units	\$000	\$000	Units	\$000
<b>HARDWARE</b>											
COMPLETE ROUND											
						6231	11757	0.53	5806	10955	0.53
<b>H/W SUBTOTAL</b>						<b>6231</b>			<b>5806</b>		
<b>PRODUCTION SUPPORT COSTS</b>											
PRODUCTION ENGINEERING											
						395			892		
<b>PROD SUPPORT SUBTOTAL</b>						<b>395</b>			<b>892</b>		
<b>Total:</b>						<b>6626</b>		<b>0.56</b>	<b>6698</b>		<b>0.61</b>

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

Date:  
February 2008

Appropriation/Budget Activity/Serial No: Procurement of Ammunition, Army/ 1/ Ammunition		Weapon System Type:	P-1 Line Item Nomenclature: CTG, 5.56MM MARKING, XM1042 (BLUE) (E96110)							
WBS Cost Elements:	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY Units	Unit Cost \$000	Specs Avail Now?	Date Revsn Avail	RFP Issue Date
<b>COMPLETE ROUND</b>										
FY 2008	UTM LIMITED SUFFOLK, UK	C/FP	Picatinny, NJ	Feb 08	May 08	11757	0.53	Y		
FY 2009	UTM LIMITED SUFFOLK, UK	C/Option	Picatinny, NJ	Feb 09	May 09	10955	0.53	Y		

REMARKS:

<b>FY 08 / 09 BUDGET PRODUCTION SCHEDULE</b>	P-1 ITEM NOMENCLATURE CTG, 5.56MM MARKING, XM1042 (BLUE) (E96110)	Date: February 2008
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COST ELEMENTS						Fiscal Year 08														Fiscal Year 09										Later
M F R	FY	S E R V	PROC QTY  x1000	ACCEP PRIOR TO 1 OCT	BAL DUE AS OF 1 OCT	Calendar Year 08														Calendar Year 09										
						O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	

COMPLETE ROUND																																		
1	FY 08	A	11757	0	11757					A					2000	2000	2000	2000	2000	1757								0						
1	FY 09	A	10955	0	10955																			A			2000	2000	2000	2000	2000	955		
Total			22712		22712										2000	2000	2000	2000	2000	1757									2000	2000	2000	2000	2000	955
						O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P					

M F R	Name - Location	PRODUCTION RATES			Reached D+	MFR	ADMIN LEAD TIME		MFR After 1 Oct	TOTAL After 1 Oct	REMARKS THIS PRODUCTION LINE IS SHARED WITH OTHER PRODUCT LINES	
		MIN	1-8-5	MAX			Prior 1 Oct	After 1 Oct				
1	UTM LIMITED, SUFFOLK, UK	2	2	3		1	Initial	3	5	3	8	
							Reorder	3	5	3	8	
							Initial					
							Reorder					
							Initial					
							Reorder					
							Initial					
							Reorder					

<b>FY 10 / 11 BUDGET PRODUCTION SCHEDULE</b>															P-1 ITEM NOMENCLATURE CTG, 5.56MM MARKING, XM1042 (BLUE) (E96110)										Date: February 2008	
--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	---------------------	--

COST ELEMENTS					Fiscal Year 10															Fiscal Year 11												Later	
MFR	FY	S E R V	PROC QTY x1000	ACCEP PRIOR TO 1 OCT	BAL DUE AS OF 1 OCT	Calendar Year 10															Calendar Year 11												
						O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P				

COMPLETE ROUND

1	FY 08	A	11757	11757																									0
1	FY 09	A	10955	10000	955	955																							0
Total			22712	21757	955	955																							
						O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P

MFR	Name - Location	PRODUCTION RATES			Reached D+	MFR	ADMIN LEAD TIME		MFR After 1 Oct	TOTAL After 1 Oct	REMARKS THIS PRODUCTION LINE IS SHARED WITH OTHER PRODUCT LINES
		MIN	1-8-5	MAX			Prior 1 Oct	After 1 Oct			
1	UTM LIMITED, SUFFOLK, UK	2	2	3		1	Initial	3	5	3	8
							Reorder	3	5	3	8
							Initial				
							Reorder				
							Initial				
							Reorder				
							Initial				
							Reorder				
							Initial				
							Reorder				

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

Date: February 2008

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 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013	To Complete	Total Prog
Proc Qty										
Gross Cost	1764.2	141.8	67.6	59.2	60.3	63.1	59.6	57.2		2273.0
Less PY Adv Proc										
Plus CY Adv Proc										
Net Proc P1	1764.2	141.8	67.6	59.2	60.3	63.1	59.6	57.2		2273.0
Initial Spares										
Total Proc Cost	1764.2	141.8	67.6	59.2	60.3	63.1	59.6	57.2		2273.0
Flyaway U/C										
Weapon System Proc U/C										

**Description:**

This budget line includes 7.62MM ALL TYPES.

FY 2007 funding total includes \$81.8 million received in GWOT supplemental.

FY 2008 funding total includes \$0 received in The Consolidated Appropriations Act, 2008 (P.L. 110-161).

FY 2008 funding totals do not includes \$10 million previously requested for current FY 2008 GWOT 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: CTG, 7.62MM, ALL TYPES (E02000)			Weapon System Type:		Date: February 2008	
<b>AMMO Cost Elements</b>		ID CD	<b>FY 07</b>			<b>FY 08</b>			<b>FY 09</b>		
			Total Cost \$000	Qty Units	Unit Cost \$000	Total Cost \$000	Qty Units	Unit Cost \$000	Total Cost \$000	Qty Units	Unit Cost \$000
E01902 7.62MM BLANK M82 LINKED/M13			35369	76345	0.46	12831	19957	0.64	3177	3508	0.91
E02002 7.62MM 4 BALL/1 TRACER LINKED			70182	109943	0.64	25944	34568	0.75	26644	32266	0.83
E02003 7.62MM BALL M80 LINKED/M13			9979	15949	0.63	5632	8889	0.63	5783	5687	1.02
E02006 7.62MM 4 BALL/1 TR F/MINIGUN			4464	8111	0.55	4344	8067	0.54	4461	4724	0.94
E02007 7.62MM 4 BALL/1 TRACER F/OHF			1607	3552	0.45	1261	2740	0.46	1270	2020	0.63
E89100 7.62MM M118 LONG RANGE			1971	3165	0.62	3687	6077	0.61	3786	4796	0.79
E88600 7.62MM SR TR 4B/1TR M973/M974			4136	2848	1.45	3953	4150	0.95	4060	4203	0.97
F47500 7.62MM ARMOR PIERCING M993			14119	7610	1.86	9933	5613	1.77	10000	5161	1.94
<b>Total:</b>			<b>141827</b>			<b>67585</b>			<b>59181</b>		

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

Date: February 2008

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:  
A

Other Related Program Elements:

	Prior Years	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013	To Complete	Total Prog
Proc Qty	2115872	76345	19957	3508	4093	8623	8312	9191		2245901
Gross Cost	315.9	35.4	12.8	3.2	3.4	5.2	4.8	5.3		385.9
Less PY Adv Proc										
Plus CY Adv Proc										
Net Proc P1	315.9	35.4	12.8	3.2	3.4	5.2	4.8	5.3		385.9
Initial Spares										
Total Proc Cost	315.9	35.4	12.8	3.2	3.4	5.2	4.8	5.3		385.9
Flyaway U/C										
Weapon System Proc U/C										

**Description:**

The 7.62mm cartridge consists of a primer and propellant contained in a brass case shaped to conform to the configuration of the service round. The cartridge case mouth is rosette crimp closed and sealed with lacquer. The Blank Firing Attachment (BFA) M21 is installed on the M240 Machine Gun to enable blank ammunition to be fired and to provide backpressure 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 2009 procurement supports annual training and builds a depot level in accordance with the Army's procurement goals.

TYPE CLASSIFICATION DATE: 1958

<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: February 2008		
<b>AMMO Cost Elements</b>		ID CD	<b>FY 07</b>			<b>FY 08</b>			<b>FY 09</b>		
			Total Cost \$000	Qty x1000	Unit Cost \$	Total Cost \$000	Qty x1000	Unit Cost \$	Total Cost \$000	Qty x1000	Unit Cost \$
<b>HARDWARE</b>											
COMPLETE ROUND			29721	76345	0.39	7647	19957	0.38	1442	3508	0.41
<b>H/W SUBTOTAL</b>			<b>29721</b>			<b>7647</b>			<b>1442</b>		
<b>PRODUCTION SUPPORT COSTS</b>											
PRODUCTION ENGINEERING			3233			1665			825		
QUALITY ASSURANCE			20			18			10		
<b>PROD SUPPORT SUBTOTAL</b>			<b>3253</b>			<b>1683</b>			<b>835</b>		
<b>NON-RECURRING COSTS</b>											
GREEN AMMO CONVERSION			695			2600					
PRODUCT IMPROVEMENT			1700			901			900		
<b>NON-RECURRING SUBTOTAL</b>			<b>2395</b>			<b>3501</b>			<b>900</b>		
<b>Total:</b>			<b>35369</b>		<b>0.46</b>	<b>12831</b>		<b>0.64</b>	<b>3177</b>		<b>0.91</b>



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

Date:  
February 2008

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 \$000	Specs Avail Now?	Date Revsn Avail	RFP Issue Date
<b>COMPLETE ROUND</b>										
FY 2007	ALLIANT TECH (LCAAP) INDEPENDENCE, MO	SS/FP	ROCK ISLAND, IL	Jan 07	Oct 07	45228	0.39			
FY 2007	GENERAL DYNAMICS ORD& TAC SYS ST PETERSBURG, FL	SS/FP	ROCK ISLAND, IL	Jun 07	Mar 08	31117	0.39			
FY 2008	ALLIANT TECH (LCAAP) INDEPENDENCE, MO	SS/FP	ROCK ISLAND, IL	Jan 08	Oct 08	19957	0.38	Y		
FY 2009	TO BE SELECTED	OTHER	ROCK ISLAND, IL	Jan 09	Oct 09	3508	0.41	Y		

REMARKS: OTHER - COMPETITION STRATEGY IS BEING FINALIZED.

FY 2007 COMPLETE ROUND IS AN AVERAGE UNIT COST FOR MULTIPLE PRODUCERS.

<b>FY 08 / 09 BUDGET PRODUCTION SCHEDULE</b>	P-1 ITEM NOMENCLATURE CTG 7.62MM BLANK M82 LINKED/M13 (E01902)	Date: February 2008
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COST ELEMENTS						Fiscal Year 08													Fiscal Year 09													Later
M F R	FY	S E R V	PROC QTY x1Mil	ACCEP PRIOR TO 1 OCT	BAL DUE AS OF 1 OCT	Calendar Year 08													Calendar Year 09													
						O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P			

<b>COMPLETE ROUND</b>																																
1	FY 07	A	45.20	0.00	45.20	3.80	3.80	3.80	3.80	3.80	3.80	3.50	3.80	3.80	3.80	3.80	3.70															0.00
2	FY 07	A	31.10	0.00	31.10							2.60	2.60	2.60	2.60	2.60	2.60	2.60	2.60	2.60	2.60	2.60	2.50									0.00
1	FY 08	A	20.00	0.00	20.00				A										1.70	1.70	1.70	1.70	1.70	1.70	1.70	1.70	1.70	1.70	1.70	1.70	1.30	0.00
3	FY 09	A	3.51	0.00	3.51																	A									3.51	
1	FY 07	AF	0.45	0.00	0.45	0.10	0.10	0.10	0.10	0.05																						0.00
1	FY 08	AF	1.29	0.00	1.29														0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.19	0.00	
3	FY 09	AF	0.45	0.00	0.45																											0.45
1	FY 07	CG	0.22	0.00	0.22	0.10	0.10	0.02																								0.00
3	FY 09	CG	0.22	0.00	0.22																											0.22
3	FY 09	MC	26.20	0.00	26.20																											26.20
1	FY 07	NS	0.60	0.00	0.60	0.10	0.10	0.10	0.10	0.10																						0.00
1	FY 08	NS	1.00	0.00	1.00														0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10		0.00	
3	FY 09	NS	1.00	0.00	1.00																											1.00
1	FY 07	SOF	1.50	0.00	1.50	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.20	0.20	0.20																0.00
1	FY 08	SOF	0.80	0.00	0.80														0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10				0.00	
						O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P			

M F R	Name - Location	PRODUCTION RATES			Reached D+	MFR	ADMIN LEAD TIME		MFR After 1 Oct	TOTAL After 1 Oct	REMARKS	
		MIN	1-8-5	MAX			Prior 1 Oct	After 1 Oct				
1	ALLIANT TECH (LCAAP), INDEPENDENCE, MO		5.16	17.77		1	Initial	6	4	9	13	SHARED LINE FOR ALL 7.62MM AMMUNITION PRODUCED AT LAKE CITY ARMY AMMUNITION PLANT
						Reorder	6	4	9	13		
2	GENERAL DYNAMICS ORD& TAC SYS, ST PETERSBURG, FL		5.00	10.00		2	Initial	6	9	9	18	
						Reorder	6	9	9	18		
3	TO BE SELECTED		5.16	17.77		3	Initial	6	4	9	13	
						Reorder	6	4	9	13		
						Initial						
						Reorder						
						Initial						
						Reorder						

COST ELEMENTS						Fiscal Year 08																Fiscal Year 09												Later					
MFR	FY	S E R V	PROC QTY x1Mil	ACCEP PRIOR TO 1 OCT	BAL DUE AS OF 1 OCT	Calendar Year 08																Calendar Year 09																	
						O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P										
3	FY 09	SOF	1.80	0.00	1.80																																		
<b>Total</b>																																							
			135.34		135.34	4.20	4.20	4.12	4.10	4.05	6.60	6.20	6.50	6.50	6.60	6.50	4.60	4.60	4.60	4.60	4.50	2.00	2.00	2.00	1.90	1.90	1.80	1.49							33.18				
						O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P										

MFR	Name - Location	PRODUCTION RATES			Reached D+	MFR	ADMIN LEAD TIME		MFR After 1 Oct	TOTAL After 1 Oct	REMARKS SHARED LINE FOR ALL 7.62MM AMMUNITION PRODUCED AT LAKE CITY ARMY AMMUNITION PLANT
		MIN	1-8-5	MAX			Prior 1 Oct	After 1 Oct			
		1	ALLIANT TECH (LCAAP), INDEPENDENCE, MO				5.16	17.77		1	
							Reorder	6	4	9	13
2	GENERAL DYNAMICS ORD& TAC SYS, ST PETERSBURG, FL		5.00	10.00		2	Initial	6	9	9	18
							Reorder	6	9	9	18
3	TO BE SELECTED		5.16	17.77		3	Initial	6	4	9	13
							Reorder	6	4	9	13
							Initial				
							Reorder				
							Initial				
							Reorder				

<b>FY 10 / 11 BUDGET PRODUCTION SCHEDULE</b>	P-1 ITEM NOMENCLATURE CTG 7.62MM BLANK M82 LINKED/M13 (E01902)	Date: February 2008
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COST ELEMENTS						Fiscal Year 10													Fiscal Year 11													Later
M F R	FY	S E R V	PROC QTY x1Mil	ACCEP PRIOR TO 1 OCT	BAL DUE AS OF 1 OCT	Calendar Year 10													Calendar Year 11													
						O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P			

<b>COMPLETE ROUND</b>																																			
1	FY 07	A	45.20	45.20																															0.00
2	FY 07	A	31.10	31.10																															0.00
1	FY 08	A	20.00	20.00																															0.00
3	FY 09	A	3.51	0.00	3.51	0.58	0.58	0.58	0.58	0.58	0.61																								0.00
1	FY 07	AF	0.45	0.45																															0.00
1	FY 08	AF	1.29	1.29																															0.00
3	FY 09	AF	0.45	0.00	0.45	0.10	0.10	0.10	0.10	0.05																									0.00
1	FY 07	CG	0.22	0.22																															0.00
3	FY 09	CG	0.22	0.00	0.22	0.10	0.10	0.02																											0.00
3	FY 09	MC	26.20	0.00	26.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.00																			0.00
1	FY 07	NS	0.60	0.60																															0.00
1	FY 08	NS	1.00	1.00																															0.00
3	FY 09	NS	1.00	0.00	1.00	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10																					0.00
1	FY 07	SOF	1.50	1.50																															0.00
1	FY 08	SOF	0.80	0.80																															0.00
						O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P						

M F R	Name - Location	PRODUCTION RATES			Reached D+	MFR	ADMIN LEAD TIME		MFR After 1 Oct	TOTAL After 1 Oct	REMARKS SHARED LINE FOR ALL 7.62MM AMMUNITION PRODUCED AT LAKE CITY ARMY AMMUNITION PLANT
		MIN	1-8-5	MAX			Prior 1 Oct	After 1 Oct			
1	ALLIANT TECH (LCAAP), INDEPENDENCE, MO		5.16	17.77		1	Initial	6	4	9	13
							Reorder	6	4	9	13
2	GENERAL DYNAMICS ORD& TAC SYS, ST PETERSBURG, FL		5.00	10.00		2	Initial	6	9	9	18
							Reorder	6	9	9	18
3	TO BE SELECTED		5.16	17.77		3	Initial	6	4	9	13
							Reorder	6	4	9	13
							Initial				
							Reorder				
							Initial				
							Reorder				

<b>FY 10 / 11 BUDGET PRODUCTION SCHEDULE</b>														P-1 ITEM NOMENCLATURE CTG 7.62MM BLANK M82 LINKED/M13 (E01902)												Date: February 2008	
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COST ELEMENTS						Fiscal Year 10											Fiscal Year 11											Later						
M F R	FY	S E R V	PROC QTY x1Mil	ACCEP PRIOR TO 1 OCT	BAL DUE AS OF 1 OCT	Calendar Year 10											Calendar Year 11																	
						O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L		A U G	S E P				
3	FY 09	SOF	1.80	0.00	1.80	0.10	0.10	0.10	0.10	0.10	0.10	0.20	0.20	0.20	0.20	0.20	0.20																	0.00
Total						135.34	102.16	33.18	3.18	3.18	3.10	3.08	3.03	3.01	2.50	2.50	2.50	2.50	2.40	2.20														
						O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P					

M F R	Name - Location	PRODUCTION RATES			Reached D+	MFR	ADMIN LEAD TIME		MFR After 1 Oct	TOTAL After 1 Oct	REMARKS	
		MIN	1-8-5	MAX			Prior 1 Oct	After 1 Oct				
1	ALLIANT TECH (LCAAP), INDEPENDENCE, MO		5.16	17.77		1	Initial	6	4	9	13	SHARED LINE FOR ALL 7.62MM AMMUNITION PRODUCED AT LAKE CITY ARMY AMMUNITION PLANT
							Reorder	6	4	9	13	
2	GENERAL DYNAMICS ORD& TAC SYS, ST PETERSBURG, FL		5.00	10.00		2	Initial	6	9	9	18	
							Reorder	6	9	9	18	
3	TO BE SELECTED		5.16	17.77		3	Initial	6	4	9	13	
							Reorder	6	4	9	13	
							Initial					
							Reorder					
							Initial					
							Reorder					

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

Date: February 2008

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

P-1 Item Nomenclature  
CTG 7.62MM 4 BALL/1 TRACER LINKED (E02002)

Program Elements for Code B Items:

Code:  
A

Other Related Program Elements:

	Prior Years	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013	To Complete	Total Prog
Proc Qty	1290443	109943	34568	32266	30889	31356	35006	34855		1599326
Gross Cost	484.5	70.2	25.9	26.6	27.2	27.7	28.3	28.8		719.3
Less PY Adv Proc										
Plus CY Adv Proc										
Net Proc P1	484.5	70.2	25.9	26.6	27.2	27.7	28.3	28.8		719.3
Initial Spares										
Total Proc Cost	484.5	70.2	25.9	26.6	27.2	27.7	28.3	28.8		719.3
Flyaway U/C										
Weapon System Proc U/C										

**Description:**

The 7.62mm cartridge consists of M80 ball and M62 tracer rounds linked four-to-one and is used in Machine Gun series M60 and M240. It is intended for use against personnel and non-armor targets. This is Code A, approved for service use.

**Justification:**

This is a training standard item used in both training and combat. FY 2009 procurement supports annual training and builds a war reserve inventory in accordance with the Army's procurement goals.

TYPE CLASSIFICATION DATE: 1957

AMMO Cost Elements		ID CD	FY 07			FY 08			FY 09		
			Total Cost	Qty	Unit Cost	Total Cost	Qty	Unit Cost	Total Cost	Qty	Unit Cost
			\$000	x1000	\$	\$000	x1000	\$	\$000	x1000	\$
<b>HARDWARE</b>											
COMPLETE ROUND											
			59688	109943	0.54	20201	34568	0.58	22464	32266	0.70
<b>H/W SUBTOTAL</b>			<b>59688</b>			<b>20201</b>			<b>22464</b>		
<b>PRODUCTION SUPPORT COSTS</b>											
PRODUCTION ENGINEERING											
			4184			2508			1901		
QUALITY ASSURANCE											
			35			31			15		
ACCEPTANCE TESTING											
			3777			704			164		
<b>PROD SUPPORT SUBTOTAL</b>			<b>7996</b>			<b>3243</b>			<b>2080</b>		
<b>NON-RECURRING COSTS</b>											
PLANT MODERNIZATION											
			700			700					
GREEN AMMO CONVERSION											
			898						1800		
PRODUCTION IMPROVEMENT											
			900			1500			300		
LETHALITY STUDY											
						300					
<b>NON-RECURRING SUBTOTAL</b>			<b>2498</b>			<b>2500</b>			<b>2100</b>		
<b>Total:</b>			<b>70182</b>		<b>0.64</b>	<b>25944</b>		<b>0.75</b>	<b>26644</b>		<b>0.83</b>

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

Date:  
February 2008

Appropriation/Budget Activity/Serial No: Procurement of Ammunition, Army/ 1/ Ammunition		Weapon System Type:	P-1 Line Item Nomenclature: CTG 7.62MM 4 BALL/1 TRACER LINKED (E02002)							
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>COMPLETE ROUND</b>										
FY 2007	ALLIANT TECH (LCAAP) INDEPENDENCE, MO	SS/FP	ROCK ISLAND, IL	Jan 07	Oct 07	37746	0.54			
FY 2007	GENERAL DYNAMICS ORD& TAC SYS ST PETERSBURG, FL	SS/FP	ROCK ISLAND, IL	Jun 07	Mar 08	72197	0.54			
FY 2008	ALLIANT TECH (LCAAP) INDEPENDENCE, MO	SS/FP	ROCK ISLAND, IL	Jan 08	Oct 08	34568	0.58	Y		
FY 2009	TO BE SELECTED	OTHER	ROCK ISLAND, IL	Jan 09	Oct 09	32266	0.70	Y		

REMARKS: OTHER - COMPETITION STRATEGY IS BEING FINALIZED.

FY 2007 COMPLETE ROUND IS AN AVERAGE UNIT COST FOR MULTIPLE PRODUCERS.



<b>FY 08 / 09 BUDGET PRODUCTION SCHEDULE</b>	P-1 ITEM NOMENCLATURE CTG 7.62MM 4 BALL/1 TRACER LINKED (E02002)	Date: February 2008
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COST ELEMENTS						Fiscal Year 08												Fiscal Year 09												Later
M F R	FY	S E R V	PROC QTY x1Mil	ACCEP PRIOR TO 1 OCT	BAL DUE AS OF 1 OCT	Calendar Year 08												Calendar Year 09												
						O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	

<b>COMPLETE ROUND</b>																													
1	FY 07	A	37.70	0.40	37.30	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	4.30											0.00	
2	FY 07	A	72.20	0.00	72.20						6.00	6.00	6.00	6.00	6.00	6.00	6.00	6.00	6.00	6.00	6.00	6.00	6.20					0.00	
1	FY 08	A	34.60	0.00	34.60				A									2.00	2.00	2.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	4.60	0.00
3	FY 09	A	32.30	0.00	32.30																A							32.30	
1	FY 07	AF	1.08	0.00	1.08	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.08													0.00	
1	FY 08	AF	4.06	0.00	4.06													0.30	0.30	0.30	0.30	0.30	0.30	0.40	0.40	0.40	0.40	0.26	0.00
3	FY 09	AF	0.62	0.00	0.62																							0.62	
2	FY 09	AF	0.67	0.00	0.67																							0.67	
1	FY 07	CG	4.82	0.00	4.82	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.42													0.00	
1	FY 08	CG	4.82	0.00	4.82													0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.42	0.00
3	FY 09	CG	2.31	0.00	2.31																							2.31	
2	FY 09	CG	2.51	0.00	2.51																							2.51	
1	FY 07	MC	39.50	0.00	39.50	3.30	3.30	3.30	3.30	3.30	3.30	3.30	3.30	3.30	3.20													0.00	
2	FY 07	MC	3.82	0.00	3.82						0.30	0.30	0.30	0.30	0.30	0.40	0.40	0.40	0.40	0.40	0.02							0.00	
1	FY 08	MC	27.70	0.00	27.70													2.30	2.30	2.30	2.30	2.30	2.40	2.30	2.30	2.30	2.30	0.00	

O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P
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M F R	Name - Location	PRODUCTION RATES			Reached D+	MFR	ADMIN LEAD TIME		MFR After 1 Oct	TOTAL After 1 Oct	REMARKS	
		MIN	1-8-5	MAX			Prior 1 Oct	After 1 Oct				
1	ALLIANT TECH (LCAAP), INDEPENDENCE, MO		13.85	47.80		1	Initial	6	4	9	13	SHARED LINE FOR ALL 7.62MM AMMUNITION PRODUCED AT LAKE CITY ARMY AMMUNITION PLANT
							Reorder	6	4	9	13	
2	GENERAL DYNAMICS ORD& TAC SYS, ST PETERSBURG, FL		5.00	10.00		2	Initial	6	9	9	18	
							Reorder	6	9	9	18	
3	TO BE SELECTED		13.80	47.80		3	Initial	6	4	9	13	
							Reorder	6	4	9	13	
							Initial					
							Reorder					
							Initial					
							Reorder					

FY 08 / 09 BUDGET PRODUCTION SCHEDULE

P-1 ITEM NOMENCLATURE
CTG 7.62MM 4 BALL/1 TRACER LINKED (E02002)

Date: February 2008

Table with columns: COST ELEMENTS, Fiscal Year 08, Fiscal Year 09, MFR, FY, SE, PROC QTY, ACCEP PRIOR, BAL DUE, Calendar Year 08 (OCT-SEP), Calendar Year 09 (OCT-SEP), Later. Includes 'Total' row and 'OCT SEP' column headers.

Table with columns: MFR, Name - Location, PRODUCTION RATES (MIN, 1-8-5, MAX), Reached, MFR, ADMIN LEAD TIME (Prior/After 1 Oct), MFR (After 1 Oct), TOTAL (After 1 Oct), REMARKS. Includes 'ALLIANT TECH (LCAAP), INDEPENDENCE, MO' and 'GENERAL DYNAMICS ORD& TAC SYS, ST PETERSBURG, FL'.

<b>FY 10 / 11 BUDGET PRODUCTION SCHEDULE</b>	P-1 ITEM NOMENCLATURE CTG 7.62MM 4 BALL/1 TRACER LINKED (E02002)	Date: February 2008
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COST ELEMENTS						Fiscal Year 10													Fiscal Year 11													Later
M F R	FY	S E R V	PROC QTY x1Mil	ACCEP PRIOR TO 1 OCT	BAL DUE AS OF 1 OCT	Calendar Year 10													Calendar Year 11													
						O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P			

<b>COMPLETE ROUND</b>																																	
1	FY 07	A	37.70	37.70																												0.00	
2	FY 07	A	72.20	72.20																												0.00	
1	FY 08	A	34.60	34.60																												0.00	
3	FY 09	A	32.30	0.00	32.30	2.70	2.70	2.70	2.70	2.70	2.70	2.70	2.70	2.70	2.70	2.60																0.00	
1	FY 07	AF	1.08	1.08																												0.00	
1	FY 08	AF	4.06	4.06																												0.00	
3	FY 09	AF	0.62	0.00	0.62	0.10	0.10	0.10	0.10	0.10	0.10	0.02																			0.00		
2	FY 09	AF	0.67	0.00	0.67							0.10	0.10	0.10	0.10	0.10	0.07																0.00
1	FY 07	CG	4.82	4.82																												0.00	
1	FY 08	CG	4.82	4.82																												0.00	
3	FY 09	CG	2.31	0.00	2.31	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.11																0.00	
2	FY 09	CG	2.51	0.00	2.51							0.20	0.30	0.20	0.30	0.20	0.30	0.20	0.20	0.20	0.10	0.11											0.00
1	FY 07	MC	39.50	39.50																												0.00	
2	FY 07	MC	3.82	3.82																												0.00	
1	FY 08	MC	27.70	27.70																												0.00	
						O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P				

M F R	Name - Location	PRODUCTION RATES			Reached D+	MFR	ADMIN LEAD TIME		MFR After 1 Oct	TOTAL After 1 Oct	REMARKS SHARED LINE FOR ALL 7.62MM AMMUNITION PRODUCED AT LAKE CITY ARMY AMMUNITION PLANT
		MIN	1-8-5	MAX			Prior 1 Oct	After 1 Oct			
1	ALLIANT TECH (LCAAP), INDEPENDENCE, MO		13.85	47.80		1	Initial	6	4	9	13
							Reorder	6	4	9	13
2	GENERAL DYNAMICS ORD& TAC SYS, ST PETERSBURG, FL		5.00	10.00		2	Initial	6	9	9	18
							Reorder	6	9	9	18
3	TO BE SELECTED		13.80	47.80		3	Initial	6	4	9	13
							Reorder	6	4	9	13
							Initial				
							Reorder				
							Initial				
							Reorder				

**FY 10 / 11 BUDGET PRODUCTION SCHEDULE**

P-1 ITEM NOMENCLATURE  
CTG 7.62MM 4 BALL/1 TRACER LINKED (E02002)

Date: February 2008

COST ELEMENTS						Fiscal Year 10													Fiscal Year 11													Later
M F R	FY	S E R V	PROC QTY x1Mil	ACCEP PRIOR TO 1 OCT	BAL DUE AS OF 1 OCT	Calendar Year 10													Calendar Year 11													
						O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P			
3	FY 09	MC	25.20	0.00	25.20	2.10	2.10	2.10	2.10	2.10	2.10	2.10	2.10	2.10	2.10	2.10																0.00
1	FY 07	NS	4.00	4.00																											0.00	
1	FY 08	NS	5.00	5.00																											0.00	
3	FY 09	NS	2.78	0.00	2.78	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.30	0.30	0.30	0.28														0.00	
2	FY 09	NS	3.02	0.00	3.02					0.20	0.30	0.20	0.30	0.20	0.30	0.20	0.30	0.20	0.30	0.20	0.30	0.20	0.32								0.00	
1	FY 07	SOF	3.00	3.00																											0.00	
1	FY 08	SOF	5.00	5.00																											0.00	
3	FY 09	SOF	1.92	0.00	1.92	0.10	0.10	0.10	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.02															0.00	
2	FY 09	SOF	2.08	0.00	2.08					0.10	0.10	0.10	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.18										0.00	
Total			320.71	247.30	73.41	5.40	5.40	5.40	5.50	5.50	6.10	6.22	6.00	6.40	6.20	6.40	5.78	0.70	0.60	0.70	0.50	0.61										
						O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P			

M F R	Name - Location	PRODUCTION RATES			Reached D+	MFR	ADMIN LEAD TIME		MFR After 1 Oct	TOTAL After 1 Oct	REMARKS
		MIN	1-8-5	MAX			Prior 1 Oct	After 1 Oct			
1	ALLIANT TECH (LCAAP), INDEPENDENCE, MO		13.85	47.80		1	6	4	9	13	SHARED LINE FOR ALL 7.62MM AMMUNITION PRODUCED AT LAKE CITY ARMY AMMUNITION PLANT
						Reorder	6	4	9	13	
2	GENERAL DYNAMICS ORD& TAC SYS, ST PETERSBURG, FL		5.00	10.00		2	6	9	9	18	
						Reorder	6	9	9	18	
3	TO BE SELECTED		13.80	47.80		3	6	4	9	13	
						Reorder	6	4	9	13	
						Initial					
						Reorder					
						Initial					
						Reorder					

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

Date: February 2008

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

P-1 Item Nomenclature  
CTG 7.62MM BALL M80 LINKED/M13 (E02003)

Program Elements for Code B Items:

Code:  
A

Other Related Program Elements:

	Prior Years	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013	To Complete	Total Prog
Proc Qty	331296	15949	8889	5687	6197	6173	7293	7487		388971
Gross Cost	119.7	10.0	5.6	5.8	5.9	6.0	6.1	6.3		165.4
Less PY Adv Proc										
Plus CY Adv Proc										
Net Proc P1	119.7	10.0	5.6	5.8	5.9	6.0	6.1	6.3		165.4
Initial Spares										
Total Proc Cost	119.7	10.0	5.6	5.8	5.9	6.0	6.1	6.3		165.4
Flyaway U/C										
Weapon System Proc U/C										

**Description:**

The 7.62mm cartridge is for use in the M60 and M240 Machine Gun Series. The bullet consists of a gilding-metal steel jacket with a lead-antimony slug. The cartridge case is brass and the bullet is unpainted. This item is Code A, approved for service use.

**Justification:**

This is a training unique item not intended for use in combat. FY 2009 procurement supports annual training and builds a depot level in accordance with the Army's procurement goals.

TYPE CLASSIFICATION DATE: 1979

<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 BALL M80 LINKED/M13 (E02003)			Weapon System Type:		Date: February 2008		
<b>AMMO Cost Elements</b>		ID CD	<b>FY 07</b>			<b>FY 08</b>			<b>FY 09</b>		
			Total Cost \$000	Qty x1000	Unit Cost \$	Total Cost \$000	Qty x1000	Unit Cost \$	Total Cost \$000	Qty x1000	Unit Cost \$
<b>HARDWARE</b>											
COMPLETE ROUND			8440	15949	0.53	5116	8889	0.58	3947	5687	0.69
<b>H/W SUBTOTAL</b>			<b>8440</b>			<b>5116</b>			<b>3947</b>		
<b>PRODUCTION SUPPORT COSTS</b>											
PRODUCTION ENGINEERING			341			508			422		
QUALITY ASSURANCE						8			7		
ACCEPTANCE TESTING			871						7		
<b>PROD SUPPORT SUBTOTAL</b>			<b>1212</b>			<b>516</b>			<b>436</b>		
<b>NON-RECURRING COSTS</b>											
PLANT MODERNIZATION									700		
ATK INTELLECTUAL PROP SETTLEMENT			327								
PRODUCT IMPROVEMENT									700		
<b>NON-RECURRING SUBTOTAL</b>			<b>327</b>						<b>1400</b>		
<b>Total:</b>			<b>9979</b>		<b>0.63</b>	<b>5632</b>		<b>0.63</b>	<b>5783</b>		<b>1.02</b>

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

Date:  
February 2008

Appropriation/Budget Activity/Serial No: Procurement of Ammunition, Army/ 1/ Ammunition		Weapon System Type:	P-1 Line Item Nomenclature: CTG 7.62MM BALL M80 LINKED/M13 (E02003)							
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>COMPLETE ROUND</b>										
FY 2007	ALLIANT TECH (LCAAP) INDEPENDENCE, MO	SS/FP	ROCK ISLAND, IL	Jan 07	Oct 07	15949	0.53			
FY 2008	ALLIANT TECH (LCAAP) INDEPENDENCE, MO	SS/FP	ROCK ISLAND, IL	Jan 08	Oct 08	8889	0.58	Y		
FY 2009	TO BE SELECTED	OTHER	ROCK ISLAND, IL	Jan 09	Oct 09	5687	0.69	Y		

REMARKS: OTHER - COMPETITION STRATEGY IS BEING FINALIZED.

<b>FY 08 / 09 BUDGET PRODUCTION SCHEDULE</b>	P-1 ITEM NOMENCLATURE CTG 7.62MM BALL M80 LINKED/M13 (E02003)	Date: February 2008
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COST ELEMENTS						Fiscal Year 08												Fiscal Year 09												Later
M F R	FY	S E R V	PROC QTY x1Mil	ACCEP PRIOR TO 1 OCT	BAL DUE AS OF 1 OCT	Calendar Year 08												Calendar Year 09												
						O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	

<b>COMPLETE ROUND</b>																															
1	FY 07	A	15.90	0.00	15.90	1.30	1.30	1.30	1.30	1.30	1.30	1.30	1.30	1.30	1.40	1.40														0.00	
1	FY 08	A	8.89	0.00	8.89				A									0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.80	0.80	0.80	0.80	0.80	0.69	0.00
2	FY 09	A	5.69	0.00	5.69																A									5.69	
1	FY 07	AF	1.59	0.00	1.59	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.49														0.00	
1	FY 08	AF	0.84	0.00	0.84													0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.04		0.00	
2	FY 09	AF	0.69	0.00	0.69																									0.69	
1	FY 07	MC	1.07	0.00	1.07	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.07															0.00	
1	FY 08	MC	15.40	0.00	15.40													1.30	1.30	1.30	1.30	1.30	1.30	1.30	1.30	1.30	1.30	1.30	1.10	0.00	
2	FY 09	MC	1.38	0.00	1.38																									1.38	
1	FY 07	NS	1.67	0.00	1.67	0.10	0.20	0.10	0.20	0.10	0.20	0.10	0.20	0.10	0.07															0.00	
1	FY 08	NS	1.00	0.00	1.00													0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10		0.00	
2	FY 09	NS	0.90	0.00	0.90																									0.90	
1	FY 07	SOF	1.00	0.00	1.00	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10																0.00	
2	FY 09	SOF	0.50	0.00	0.50																									0.50	
<b>Total</b>			56.52		56.52	1.70	1.80	1.70	1.80	1.70	1.80	1.70	1.80	1.70	1.90	1.67	1.96	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.30	2.30	2.24	2.20	2.10	1.79	9.16
						O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P		

M F R	Name - Location	PRODUCTION RATES			Reached D+	MFR	ADMIN LEAD TIME		MFR After 1 Oct	TOTAL After 1 Oct	REMARKS SHARED LINE FOR ALL 7.62MM AMMUNITION PRODUCED AT LAKE CITY ARMY AMMUNITION PLANT
		MIN	1-8-5	MAX			Prior 1 Oct	After 1 Oct			
1	ALLIANT TECH (LCAAP), INDEPENDENCE, MO		11.08	38.24		1	6	4	9	13	
2	TO BE SELECTED		1.00	30.00		2	6	4	9	13	



<b>FY 10 / 11 BUDGET PRODUCTION SCHEDULE</b>	P-1 ITEM NOMENCLATURE CTG 7.62MM BALL M80 LINKED/M13 (E02003)	Date: February 2008
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COST ELEMENTS						Fiscal Year 10														Fiscal Year 11														Later
M F R	FY	S E R V	PROC QTY x1Mil	ACCEP PRIOR TO 1 OCT	BAL DUE AS OF 1 OCT	Calendar Year 10														Calendar Year 11														
						O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P					

<b>COMPLETE ROUND</b>																																			
1	FY 07	A	15.90	15.90																															0.00
1	FY 08	A	8.89	8.89																															0.00
2	FY 09	A	5.69	0.00	5.69	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.40	0.40	0.39																		0.00
1	FY 07	AF	1.59	1.59																															0.00
1	FY 08	AF	0.84	0.84																															0.00
2	FY 09	AF	0.69	0.00	0.69	0.10	0.10	0.10	0.10	0.10	0.10	0.09																							0.00
1	FY 07	MC	1.07	1.07																															0.00
1	FY 08	MC	15.40	15.40																															0.00
2	FY 09	MC	1.38	0.00	1.38	0.10	0.10	0.10	0.10	0.10	0.10	0.20	0.20	0.10	0.10	0.10	0.08																		0.00
1	FY 07	NS	1.67	1.67																															0.00
1	FY 08	NS	1.00	1.00																															0.00
2	FY 09	NS	0.90	0.00	0.90	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10																					0.00
1	FY 07	SOF	1.00	1.00																															0.00
2	FY 09	SOF	0.50	0.00	0.50	0.10	0.10	0.10	0.10	0.10																									0.00
<b>Total</b>			56.52	47.36	9.16	0.90	0.90	0.90	0.90	0.90	0.80	0.89	0.80	0.70	0.50	0.50	0.47																		
						O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P						

M F R	Name - Location	PRODUCTION RATES			Reached D+	MFR	ADMIN LEAD TIME		MFR After 1 Oct	TOTAL After 1 Oct	REMARKS SHARED LINE FOR ALL 7.62MM AMMUNITION PRODUCED AT LAKE CITY ARMY AMMUNITION PLANT
		MIN	1-8-5	MAX			Prior 1 Oct	After 1 Oct			
1	ALLIANT TECH (LCAAP), INDEPENDENCE, MO		11.08	38.24		1	Initial	6	4	9	13
							Reorder	6	4	9	13
2	TO BE SELECTED		1.00	30.00		2	Initial	6	4	9	13
							Reorder	6	4	9	13
							Initial				
							Reorder				
							Initial				
							Reorder				
							Initial				
							Reorder				

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

Date: February 2008

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

P-1 Item Nomenclature  
CTG 7.62MM ARMOR PIERCING M993 (F47500)

Program Elements for Code B Items:

Code:  
A

Other Related Program Elements:

	Prior Years	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013	To Complete	Total Prog
Proc Qty	22865	7610	5613	5161	5099	5032	2717	872		54969
Gross Cost	35.2	14.1	9.9	10.0	10.0	10.0	6.0	2.0		97.2
Less PY Adv Proc										
Plus CY Adv Proc										
Net Proc P1	35.2	14.1	9.9	10.0	10.0	10.0	6.0	2.0		97.2
Initial Spares										
Total Proc Cost	35.2	14.1	9.9	10.0	10.0	10.0	6.0	2.0		97.2
Flyaway U/C										
Weapon System Proc U/C										

**Description:**

The 7.62mm M993 Armor Piercing (AP) cartridge is designed for use in the M240 Machine Gun and the M24 Sniper Weapon. The cartridge consists of a projectile and a propelling charge contained in a brass cartridge case to which the projectile is secured. The projectile consists of a tungsten core penetrator, which is enclosed by metal jacket. The armor penetrating capabilities provide for a cartridge that can defeat lightly armored targets within typical medium machine gun engagement ranges. The item is Code A, approved for service use.

**Justification:**

This is a training standard item used in both training and combat. FY 2009 procurement supports annual training and builds a war reserve inventory in accordance with the Army's procurement goals.

TYPE CLASSIFICATION DATE: February 1996

<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 ARMOR PIERCING M993 (F47500)			Weapon System Type:		Date: February 2008	
<b>AMMO Cost Elements</b>		ID CD	<b>FY 07</b>			<b>FY 08</b>			<b>FY 09</b>		
			Total Cost \$000	Qty x1000	Unit Cost \$	Total Cost \$000	Qty x1000	Unit Cost \$	Total Cost \$000	Qty x1000	Unit Cost \$
<b>HARDWARE</b>											
LOAD, ASSEMBLE, PACK			2158	7610	0.28	1473	5613	0.26	1412	5161	0.27
M993 7.62MM AP PENETRATOR			11517	6088	1.89	8119	4490	1.81	8042	4129	1.95
<b>H/W SUBTOTAL</b>			<b>13675</b>			<b>9592</b>			<b>9454</b>		
<b>PRODUCTION SUPPORT COSTS</b>											
PRODUCTION ENGINEERING			444			341			546		
<b>PROD SUPPORT SUBTOTAL</b>			<b>444</b>			<b>341</b>			<b>546</b>		
<b>Total:</b>			<b>14119</b>		<b>1.86</b>	<b>9933</b>		<b>1.77</b>	<b>10000</b>		<b>1.94</b>

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

Date:  
February 2008

Appropriation/Budget Activity/Serial No: Procurement of Ammunition, Army/ 1/ Ammunition		Weapon System Type:	P-1 Line Item Nomenclature: CTG 7.62MM ARMOR PIERCING M993 (F47500)							
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>LOAD, ASSEMBLE, PACK</b>										
FY 2007	ALLIANT TECH (LCAAP) INDEPENDENCE, MO	SS/FP	ROCK ISLAND, IL	Mar 07	Jan 08	7610	0.28			
FY 2008	ALLIANT TECH (LCAAP) INDEPENDENCE, MO	SS/FP	ROCK ISLAND, IL	Mar 08	Jan 09	5613	0.26	Y		
FY 2009	TO BE SELECTED	OTHER	ROCK ISLAND, IL	Mar 09	Jan 10	5161	0.27	Y		
<b>M993 7.62MM AP PENETRATOR</b>										
FY 2007	NORDIC AMMUNITION CO (NAMMO) KARLSBORG, SWEDEN	SS/OPT	ROCK ISLAND, IL	Nov 06	Sep 07	6088	1.89			
FY 2008	NORDIC AMMUNITION CO (NAMMO) KARLSBORG, SWEDEN	SS/OPT	ROCK ISLAND, IL	Nov 07	Sep 08	4490	1.81	Y		
FY 2009	NORDIC AMMUNITION CO (NAMMO) KARLSBORG, SWEDEN	SS/OPT	ROCK ISLAND, IL	Nov 08	Sep 09	4129	1.95	Y		

REMARKS: OTHER - COMPETITION STRATEGY IS BEING FINALIZED.

**FY 08 / 09 BUDGET PRODUCTION SCHEDULE**

P-1 ITEM NOMENCLATURE  
CTG 7.62MM ARMOR PIERCING M993 (F47500)

Date: February 2008

COST ELEMENTS						Fiscal Year 08														Fiscal Year 09														Later
MFR	FY	SERV	PROC QTY x1Mil	ACCEP PRIOR TO 1 OCT	BAL DUE AS OF 1 OCT	Calendar Year 08														Calendar Year 09														
						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, PACK																																	
1	FY 07	A	7.61	0.00	7.61				0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.70	0.70	0.70	0.70	0.61								0.00					
1	FY 08	A	5.61	0.00	5.61						A										0.50	0.50	0.50	0.50	0.50	0.50	0.50	1.11					
2	FY 09	A	5.16	0.00	5.16																		A					5.16					
1	FY 08	AF	0.58	0.00	0.58																0.10	0.10	0.10	0.10	0.10	0.08		0.00					
1	FY 07	NS	0.22	0.00	0.22				0.08		0.08			0.06														0.00					
1	FY 08	NS	0.10	0.00	0.10																0.10							0.00					
2	FY 09	NS	0.10	0.00	0.10																							0.10					
1	FY 08	SOF	0.48	0.00	0.48																0.10	0.10	0.10	0.10	0.08			0.00					
Total			19.86		19.86				0.68	0.60	0.68	0.60	0.66	0.60	0.70	0.70	0.70	0.70	0.61	0.80	0.70	0.70	0.70	0.68	0.58	0.50	0.50	0.50	6.37				
									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	ADMIN LEAD TIME		MFR After 1 Oct	TOTAL After 1 Oct	REMARKS	
		MIN	1-8-5	MAX			Prior 1 Oct	After 1 Oct				
1	ALLIANT TECH (LCAAP), INDEPENDENCE, MO		1.50	4.00		1	Initial	2	6	10	16	
							Reorder	2	6	10	16	
2	TO BE SELECTED		1.50	4.00		2	Initial	2	6	10	16	
							Reorder	2	6	10	16	
							Initial					
							Reorder					
							Initial					
							Reorder					
							Initial					
							Reorder					

<b>FY 10 / 11 BUDGET PRODUCTION SCHEDULE</b>	P-1 ITEM NOMENCLATURE CTG 7.62MM ARMOR PIERCING M993 (F47500)	Date: February 2008
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COST ELEMENTS						Fiscal Year 10												Fiscal Year 11												Later
M F R	FY	S E R V	PROC QTY x1Mil	ACCEP PRIOR TO 1 OCT	BAL DUE AS OF 1 OCT	Calendar Year 10												Calendar Year 11												
						O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	

LOAD, ASSEMBLE, PACK																																				
1	FY 07	A	7.61	7.61																																0.00
1	FY 08	A	5.61	4.50	1.11	0.40	0.40	0.31																												0.00
2	FY 09	A	5.16	0.00	5.16				0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.50	0.50	0.50	0.50	0.36																0.00
1	FY 08	AF	0.58	0.58																																0.00
1	FY 07	NS	0.22	0.22																																0.00
1	FY 08	NS	0.10	0.10																																0.00
2	FY 09	NS	0.10	0.00	0.10				0.10																											0.00
1	FY 08	SOF	0.48	0.48																																0.00
Total			19.86	13.49	6.37	0.40	0.40	0.31	0.50	0.40	0.40	0.40	0.40	0.40	0.40	0.50	0.50	0.50	0.50	0.36																
						O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P							

M F R	Name - Location	PRODUCTION RATES			Reached D+	MFR	ADMIN LEAD TIME		MFR After 1 Oct	TOTAL After 1 Oct	REMARKS	
		MIN	1-8-5	MAX			Prior 1 Oct	After 1 Oct				
		1	Initial	2			6	10	16			
1	ALLIANT TECH (LCAAP), INDEPENDENCE, MO		1.50	4.00		1	Initial	2	6	10	16	
						1	Reorder	2	6	10	16	
2	TO BE SELECTED		1.50	4.00		2	Initial	2	6	10	16	
						2	Reorder	2	6	10	16	
							Initial					
							Reorder					
							Initial					
							Reorder					

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

Date: February 2008

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

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

Program Elements for Code B Items:

Code:  
A

Other Related Program Elements:

	Prior Years	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013	To Complete	Total Prog
Proc Qty										
Gross Cost	97.7	4.9	6.1	6.3	6.4	6.6	8.0	8.2		144.0
Less PY Adv Proc										
Plus CY Adv Proc										
Net Proc P1	97.7	4.9	6.1	6.3	6.4	6.6	8.0	8.2		144.0
Initial Spares										
Total Proc Cost	97.7	4.9	6.1	6.3	6.4	6.6	8.0	8.2		144.0
Flyaway U/C										
Weapon System Proc U/C										

**Description:**

This item consists of the 9MM Ball M882, 9MM Ball M882 Commercial Pack and 9MM Marking XM1041.

FY 2007 funding total includes \$0 received in GWOT supplemental.

FY 2008 funding total includes \$0 received in The Consolidated Appropriations Act, 2008 (P.L. 110-161).

FY 2008 funding totals do not includes \$0 previously requested for current FY 2008 GWOT requirements.

Actual amount for FY07 reflect changes since the publication of the P-1.

<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, HANDGUN, ALL TYPES (EA3000)			Weapon System Type:		Date: February 2008	
<b>AMMO Cost Elements</b>		ID CD	<b>FY 07</b>			<b>FY 08</b>			<b>FY 09</b>		
			Total Cost	Qty	Unit Cost	Total Cost	Qty	Unit Cost	Total Cost	Qty	Unit Cost
			\$000	Units	\$000	\$000	Units	\$000	\$000	Units	\$000
E05210 CTG 9MM BALL M882			957	5410	0.18	1538	9153	0.17	1619	9631	0.17
E96105 CTG 9MM MARKING XM1041						279	459	0.61	287	565	0.51
E99900 CTG 9MM BALL M882 COMMERCIAL PACK			2297	18258	0.13	2679	20828	0.13	2752	19159	0.14
E32900 SHOULDER LAUNCHED MUNIT TRNG RD			1641	2196	0.75	1574	2201	0.72	1618	1583	1.02
<b>Total:</b>			<b>4895</b>			<b>6070</b>			<b>6276</b>		



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

Date: February 2008

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 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013	To Complete	Total Prog
Proc Qty										
Gross Cost	1014.3	177.9	178.3	183.8	177.4	177.8	146.1	127.9		2183.4
Less PY Adv Proc										
Plus CY Adv Proc										
Net Proc P1	1014.3	177.9	178.3	183.8	177.4	177.8	146.1	127.9		2183.4
Initial Spares										
Total Proc Cost	1014.3	177.9	178.3	183.8	177.4	177.8	146.1	127.9		2183.4
Flyaway U/C										
Weapon System Proc U/C										

**Description:**

This budget line includes .50 CAL ALL TYPES.

FY 2007 funding total includes \$101.9 million received in GWOT supplemental.

FY 2008 funding total includes \$0 received in The Consolidated Appropriations Act, 2008 (P.L. 110-161).

FY 2008 funding totals do not includes \$13.5 million previously requested for current FY 2008 GWOT 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: CTG, .50 CAL, ALL TYPES (E08000)			Weapon System Type:		Date: February 2008	
<b>AMMO Cost Elements</b>		ID CD	<b>FY 07</b>			<b>FY 08</b>			<b>FY 09</b>		
			Total Cost \$000	Qty Units	Unit Cost \$000	Total Cost \$000	Qty Units	Unit Cost \$000	Total Cost \$000	Qty Units	Unit Cost \$000
E06903CAL .50 LKD 4 API/1 API T/W/M9 LINK			31651	11470	2.76	44696	17811	2.51	55706	16745	3.33
E07000 CAL .50 SHORT RG LINKED 4/1			1296	468	2.77	3481	1200	2.90	3576	1175	3.04
E07100 CAL .50 BALL M33 W/M9 LINK			14392	6017	2.39	20417	8966	2.28	21630	8022	2.70
E07200 CAL .50 4 BALL/1 TRACER W/M9 LINK			83227	32324	2.58	70947	28354	2.50	72860	24972	2.92
E07302 CAL .50 BLANK M1A1 LK W/M9 LK			8359	6183	1.35	17789	13753	1.30	8784	6020	1.46
E07900 CAL .50 HIGH PRESSURE TEST						500					
E19700 CAL .50 API MK211 MOD 0 MULTIPU			1880	224	8.39	430	52	8.27	442	43	10.28
E96130 CAL .50 SNIPER XM1022						2484	703	3.53	2622	532	4.93
E99906 CAL .50 SLAP-T M962			4090	281	14.56	3109	216	14.39	3193	223	14.32
F47400 CAL .50 API MK211 MOD O LKD 4/1			337								
F88000 CAL .50 SLAP-T M903 (M962 TR)			32640	2903	11.24	14400	1063	13.55	15000	1128	13.29
<b>Total:</b>			<b>177872</b>			<b>178253</b>			<b>183813</b>		

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

Date: February 2008

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

P-1 Item Nomenclature  
CTG CAL .50 LEADFREE BALL M33/1 TRACE M17 W/M9 LNK (E06903)

Program Elements for Code B Items:

Code:  
A

Other Related Program Elements:

	Prior Years	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013	To Complete	Total Prog
Proc Qty	37111	11470	17811	16745	13498	12377	7033	1322		117367
Gross Cost	84.2	31.7	44.7	55.7	47.0	45.0	25.0	5.0		338.3
Less PY Adv Proc										
Plus CY Adv Proc										
Net Proc P1	84.2	31.7	44.7	55.7	47.0	45.0	25.0	5.0		338.3
Initial Spares										
Total Proc Cost	84.2	31.7	44.7	55.7	47.0	45.0	25.0	5.0		338.3
Flyaway U/C										
Weapon System Proc U/C										

**Description:**

The .50 caliber item consists of Cartridge, Armor Piercing Incendiary M8 and Cartridge, Tracer M20 linked 4-to-1 in 100-round belts with the M9 link for use in the M2 Machine Gun to defeat personnel and light armor targets. This item is Code A, approved for service use.

**Justification:**

This is a training standard item used in both training and combat. FY 2009 procurement supports annual training and builds a war reserve inventory in accordance with the Army's procurement goals.

TYPE CLASSIFICATION DATE: Mid-1940's

Exhibit P-5, Weapon AMMO Cost Analysis	Appropriation/Budget Activity/Serial No: Procurement of Ammunition, Army / 1 / Ammunition	P-1 Line Item Nomenclature: CTG CAL .50 LEADFREE BALL M33/1 TRACE M17 W/M9 LNK (E06903)			Weapon System Type:			Date: February 2008		
AMMO Cost Elements	ID	FY 07			FY 08			FY 09		
	CD	Total Cost	Qty	Unit Cost	Total Cost	Qty	Unit Cost	Total Cost	Qty	Unit Cost
		\$000	x1000	\$	\$000	x1000	\$	\$000	x1000	\$
<b>HARDWARE</b>										
LOAD, ASSEMBLE, PACK		29725	11470	2.59	42561	17811	2.39	50318	16745	3.00
BOX METAL M2A1		427	47	9.08	1967	182	10.83	1891	169	11.18
<b>H/W SUBTOTAL</b>		<b>30152</b>			<b>44528</b>			<b>52209</b>		
<b>PRODUCTION SUPPORT COSTS</b>										
PRODUCTION ENGINEERING		245			155			2278		
QUALITY ASSURANCE		5			5			10		
ACCEPTANCE TESTING		22			8			9		
<b>PROD SUPPORT SUBTOTAL</b>		<b>272</b>			<b>168</b>			<b>2297</b>		
<b>NON-RECURRING COSTS</b>										
PLANT MODERNIZATION		274								
PROGRAM SUPPORT		907								
GREEN AMMO CONVERSION								300		
PRODUCT IMPROVEMENT								900		
ATK INTELLECTUAL PROP SETTLEMENT		46								
<b>NON-RECURRING SUBTOTAL</b>		<b>1227</b>						<b>1200</b>		
<b>Total:</b>		<b>31651</b>		<b>2.76</b>	<b>44696</b>		<b>2.51</b>	<b>55706</b>		<b>3.33</b>

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

Date:  
February 2008

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
Appropriation/Budget Activity/Serial No: Procurement of Ammunition, Army/ 1/ Ammunition										
		Weapon System Type:	P-1 Line Item Nomenclature: CTG CAL .50 LEADFREE BALL M33/1 TRACE M17 W/M9 LNK (E06903)							
<b>LOAD, ASSEMBLE, PACK</b>										
FY 2007	ALLIANT TECH (LCAAP) INDEPENDENCE, MO	SS/FP	ROCK ISLAND, IL	Jan 07	Apr 08	5669	2.59			
FY 2007	GENERAL DYNAMICS ORD& TAC SYS ST PETERSBURG, FL	SS/FP	ROCK ISLAND, IL	Jun 07	Jan 09	5801	2.59			
FY 2008	ALLIANT TECH (LCAAP) INDEPENDENCE, MO	SS/FP	ROCK ISLAND, IL	Jan 08	Jan 09	17811	2.39	Y		
FY 2009	TO BE SELECTED	OTHER	ROCK ISLAND, IL	Jan 09	Oct 09	16745	3.00	Y		
<b>BOX METAL M2A1</b>										
FY 2007	BWAY CORPORATION ATLANTA, GA	C/OPT	ROCK ISLAND, IL	Mar 07	Sep 07	40	9.08			
FY 2007	BEST FOAM FAB CHICAGO, IL	C/OPT	ROCK ISLAND, IL	Mar 07	Sep 07	7	9.08			
FY 2008	BWAY CORPORATION ATLANTA, GA	C/OPT	ROCK ISLAND, IL	Mar 08	Oct 08	145	10.83	Y		
FY 2008	BEST FOAM FAB CHICAGO, IL	C/OPT	ROCK ISLAND, IL	Mar 08	Sep 08	37	10.83	Y		
FY 2009	BWAY CORPORATION ATLANTA, GA	C/OPT	ROCK ISLAND, IL	Mar 09	Sep 09	135	11.18	Y		
FY 2009	BEST FOAM FAB CHICAGO, IL	C/OPT	ROCK ISLAND, IL	Mar 09	Sep 09	34	11.18	Y		

REMARKS: OTHER - COMPETITION STRATEGY IS BEING FINALIZED.

FY 2007 LOAD, ASSEMBLE, PACK (LAP) IS AN AVERAGE UNIT COST FOR MULTIPLE PRODUCERS.

FY 2008 - FY 2009 BOX METAL M2A1 IS AN AVERAGE UNIT COST FOR MULTIPLE PRODUCERS.

<b>FY 08 / 09 BUDGET PRODUCTION SCHEDULE</b>	P-1 ITEM NOMENCLATURE CTG CAL .50 LEADFREE BALL M33/1 TRACE M17 W/M9 LNK (E06903)	Date: February 2008
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COST ELEMENTS						Fiscal Year 08												Fiscal Year 09												Later
M F R	FY	S E R V	PROC QTY x1Mil	ACCEP PRIOR TO 1 OCT	BAL DUE AS OF 1 OCT	Calendar Year 08												Calendar Year 09												
						O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	

LOAD, ASSEMBLE, PACK																															
1	FY 07 P	A	2.72	1.76	0.96	0.58	0.38																								0.00
2	FY 07 P	A	6.81	2.94	3.87	1.10		0.66		1.70	0.41																				0.00
1	FY 07	A	5.67	0.00	5.67							0.63	0.64	0.63	0.63	0.64	0.61	0.76	0.84	0.29											0.00
2	FY 07	A	5.80	0.00	5.80																0.48	0.48	0.49	0.48	0.49	0.48	0.48	0.48	0.48	0.49	1.45
1	FY 08	A	17.80	0.00	17.80				A												1.90	1.90	2.00	2.00	2.00	2.00	2.00	2.00	2.00	0.00	
3	FY 09	A	16.70	0.00	16.70																A									16.70	
1	FY 07 P	AF	2.03	2.01	0.02	0.02																									0.00
1	FY 07	AF	1.41	0.00	1.41							0.21	0.22	0.21	0.22	0.21	0.21	0.13													0.00
1	FY 08	AF	0.98	0.00	0.98																0.09	0.09	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.00	
						O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P		

M F R	Name - Location	PRODUCTION RATES			Reached D+	MFR	ADMIN LEAD TIME		MFR After 1 Oct	TOTAL After 1 Oct	REMARKS
		MIN	1-8-5	MAX			Prior 1 Oct	After 1 Oct			
1	ALLIANT TECH (LCAAP), INDEPENDENCE, MO		1.15	3.96		1	6	4	9	13	
							6	4	9	13	
2	GENERAL DYNAMICS ORD& TAC SYS, ST PETERSBURG, FL		0.30	0.75		2	6	4	9	13	
							6	4	9	13	
3	TO BE SELECTED		1.15	3.96		3	6	4	9	13	
							6	4	9	13	
							Initial				
							Reorder				
							Initial				
							Reorder				

FY 08 / 09 BUDGET PRODUCTION SCHEDULE					P-1 ITEM NOMENCLATURE CTG CAL .50 LEADFREE BALL M33/1 TRACE M17 W/M9 LNK (E06903)																		Date: February 2008							
COST ELEMENTS						Fiscal Year 08											Fiscal Year 09													
MFR	FY	SERV	PROC QTY x1Mil	ACCEP PRIOR TO 1 OCT	BAL DUE AS OF 1 OCT	Calendar Year 08											Calendar Year 09											Later		
						OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL		AUG	SEP
3	FY 09	AF	0.06	0.00	0.06																						0.06			
3	FY 09	AF	0.12	0.00	0.12																						0.12			
1	FY 07	CG	0.38	0.00	0.38								0.07	0.08	0.07	0.08	0.08										0.00			
3	FY 08	CG	0.39	0.00	0.39																						0.39			
2	FY 09	CG	0.19	0.00	0.19																						0.19			
2	FY 07 P	MC	2.20	1.37	0.83			0.38		0.36	0.09																0.00			
1	FY 07 P	MC	14.00	5.89	8.11		0.96	1.30	1.20	1.00	1.10	0.09	0.58	0.55	0.48	0.09	0.37	0.39									0.00			
1	FY 07	MC	0.88	0.00	0.88												0.30	0.58									0.00			
2	FY 07	MC	2.20	0.00	2.20															0.18	0.18	0.19	0.18	0.19	0.19	0.18	0.18	0.19	0.54	
1	FY 08	MC	7.64	0.00	7.64														0.70	0.69	0.69	0.69	0.70	0.70	0.69	0.69	0.70	0.69	0.70	0.00
3	FY 09	MC	6.67	0.00	6.67																							6.67		
1	FY 07	NS	6.30	2.85	3.45	0.50	0.22	0.62	0.48	0.55	0.42	0.11	0.55														0.00			
						OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	

MFR	Name - Location	PRODUCTION RATES			Reached D+	MFR		ADMIN LEAD TIME		MFR After 1 Oct	TOTAL After 1 Oct	REMARKS
		MIN	1-8-5	MAX				Prior 1 Oct	After 1 Oct			
1	ALLIANT TECH (LCAAP), INDEPENDENCE, MO		1.15	3.96		1	Initial	6	4	9	13	
							Reorder	6	4	9	13	
2	GENERAL DYNAMICS ORD& TAC SYS, ST PETERSBURG, FL		0.30	0.75		2	Initial	6	4	9	13	
							Reorder	6	4	9	13	
3	TO BE SELECTED		1.15	3.96		3	Initial	6	4	9	13	
							Reorder	6	4	9	13	
							Initial					
							Reorder					
							Initial					
							Reorder					

**FY 08 / 09 BUDGET PRODUCTION SCHEDULE**

P-1 ITEM NOMENCLATURE  
CTG CAL .50 LEADFREE BALL M33/1 TRACE M17 W/M9 LNK  
(E06903)

Date: February 2008

COST ELEMENTS						Fiscal Year 08												Fiscal Year 09												Later
MFR	FY	SERV	PROC QTY x1Mil	ACCEP PRIOR TO 1 OCT	BAL DUE AS OF 1 OCT	Calendar Year 08												Calendar Year 09												
						OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	
2	FY 08	NS	1.00	0.00	1.00															0.08	0.08	0.09	0.08	0.08	0.08	0.08	0.08	0.09	0.09	0.25
1	FY 09	NS	1.60	0.00	1.60											0.14	0.13	0.13	0.13	0.13	0.14	0.13	0.14	0.13	.13	0.13	0.14	0.00		
1	FY 07	SOF	0.20	0.00	0.20						0.20																	0.00		
2	FY 08	SOF	0.50	0.00	0.50											0.05	0.04	0.04	0.04	0.04	0.04	0.05	0.04	0.04	0.04	0.04	0.04	0.04		
<b>Total</b>						2.20	1.56	2.96	1.68	3.61	2.02	1.03	2.05	1.48	1.39	1.03	1.27	1.85	2.42	1.24	3.59	3.60	3.76	3.71	3.73	3.71	3.58	3.71	3.75	26.37
						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	ADMIN LEAD TIME		MFR After 1 Oct	TOTAL After 1 Oct	REMARKS	
		MIN	1-8-5	MAX			Prior 1 Oct	After 1 Oct				
1	ALLIANT TECH (LCAAP), INDEPENDENCE, MO		1.15	3.96		1	Initial	6	4	9	13	
							Reorder	6	4	9	13	
2	GENERAL DYNAMICS ORD& TAC SYS, ST PETERSBURG, FL		0.30	0.75		2	Initial	6	4	9	13	
							Reorder	6	4	9	13	
3	TO BE SELECTED		1.15	3.96		3	Initial	6	4	9	13	
							Reorder	6	4	9	13	
							Initial					
							Reorder					
							Initial					
							Reorder					



<b>FY 10 / 11 BUDGET PRODUCTION SCHEDULE</b>	P-1 ITEM NOMENCLATURE CTG CAL .50 LEADFREE BALL M33/1 TRACE M17 W/M9 LNK (E06903)	Date: February 2008
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COST ELEMENTS						Fiscal Year 10												Fiscal Year 11												Later
M F R	FY	S E R V	PROC QTY x1Mil	ACCEP PRIOR TO 1 OCT	BAL DUE AS OF 1 OCT	Calendar Year 10												Calendar Year 11												
						O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	

LOAD, ASSEMBLE, PACK																															
1	FY 07 P	A	2.72	2.72																											0.00
2	FY 07 P	A	6.81	6.81																											0.00
1	FY 07	A	5.67	5.67																											0.00
2	FY 07	A	5.80	4.35	1.45	0.49	0.48	0.48																							0.00
1	FY 08	A	17.80	17.80																											0.00
3	FY 09	A	16.70	0.00	16.70	1.40	1.40	1.30	1.40	1.40	1.40	1.40	1.40	1.40	1.40	1.40															0.00
1	FY 07 P	AF	2.03	2.03																											0.00
1	FY 07	AF	1.41	1.41																											0.00
1	FY 08	AF	0.98	0.98																											0.00

M F R	Name - Location	PRODUCTION RATES			Reached D+	MFR	ADMIN LEAD TIME		MFR After 1 Oct	TOTAL After 1 Oct	REMARKS
		MIN	1-8-5	MAX			Prior 1 Oct	After 1 Oct			
1	ALLIANT TECH (LCAAP), INDEPENDENCE, MO		1.15	3.96		1	6	4	9	13	
2	GENERAL DYNAMICS ORD& TAC SYS, ST PETERSBURG, FL		0.30	0.75		2	6	4	9	13	
3	TO BE SELECTED		1.15	3.96		3	6	4	9	13	
							6	4	9	13	
							Initial				
							Reorder				
							Initial				
							Reorder				

<b>FY 10 / 11 BUDGET PRODUCTION SCHEDULE</b>	P-1 ITEM NOMENCLATURE CTG CAL .50 LEADFREE BALL M33/1 TRACE M17 W/M9 LNK (E06903)	Date: February 2008
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COST ELEMENTS						Fiscal Year 10												Fiscal Year 11												Later									
MFR	FY	SERV	PROC QTY x1Mil	ACCEP PRIOR TO 1 OCT	BAL DUE AS OF 1 OCT	Calendar Year 10												Calendar Year 11																					
						OC T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	OC T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P										
3	FY 09	AF	0.06	0.00	0.06						0.01		0.01		0.01			0.01																					0.00
3	FY 09	AF	0.12	0.00	0.12	0.01		0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01																						0.00	
1	FY 07	CG	0.38	0.38																																		0.00	
3	FY 08	CG	0.39	0.00	0.39	0.04		0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.04																						0.00	
2	FY 09	CG	0.19	0.00	0.19						0.02	0.02	0.02	0.01	0.02	0.02	0.02		0.02	0.01	0.01	0.01	0.01															0.00	
2	FY 07 P	MC	2.20	2.20																																		0.00	
1	FY 07 P	MC	14.00	14.00																																		0.00	
1	FY 07	MC	0.88	0.88																																		0.00	
2	FY 07	MC	2.20	1.66	0.54	0.18		0.18	0.18																													0.00	
1	FY 08	MC	7.64	7.64																																		0.00	
3	FY 09	MC	6.67	0.00	6.67	0.56		0.55	0.55	0.55	0.56	0.56	0.55	0.55	0.55	0.56	0.55	0.56																				0.00	
1	FY 07	NS	6.30	6.30																																		0.00	
						O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P										

MFR	Name - Location	PRODUCTION RATES			Reached D+	MFR		ADMIN LEAD TIME		MFR After 1 Oct	TOTAL After 1 Oct	REMARKS
		MIN	1-8-5	MAX				Prior 1 Oct	After 1 Oct			
1	ALLIANT TECH (LCAAP), INDEPENDENCE, MO		1.15	3.96		1	Initial	6	4	9	13	
								6	4	9	13	
2	GENERAL DYNAMICS ORD& TAC SYS, ST PETERSBURG, FL		0.30	0.75		2	Initial	6	4	9	13	
								6	4	9	13	
3	TO BE SELECTED		1.15	3.96		3	Initial	6	4	9	13	
								6	4	9	13	
							Initial					
							Reorder					
							Initial					
							Reorder					

**FY 10 / 11 BUDGET PRODUCTION SCHEDULE**

P-1 ITEM NOMENCLATURE  
CTG CAL .50 LEADFREE BALL M33/1 TRACE M17 W/M9 LNK  
(E06903)

Date: February 2008

COST ELEMENTS						Fiscal Year 10														Fiscal Year 11														Later
M F R	FY	S E R V	PROC QTY x1Mil	ACCEP PRIOR TO 1 OCT	BAL DUE AS OF 1 OCT	Calendar Year 10														Calendar Year 11														
						O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P					
2	FY 08	NS	1.00	0.75	0.25	0.09	0.08	0.08																										0.00
1	FY 09	NS	1.60	1.60																													0.00	
1	FY 07	SOF	0.20	0.20																												0.00		
2	FY 08	SOF	0.50	0.50																												0.00		
<b>Total</b>						2.77	2.73	2.63	1.99	2.00	2.04	2.01	2.02	2.01	2.02	2.05	0.02	0.02	0.01	0.02	0.01													
						O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P					

M F R	Name - Location	PRODUCTION RATES			Reached D+	MFR	ADMIN LEAD TIME		MFR After 1 Oct	TOTAL After 1 Oct	REMARKS	
		MIN	1-8-5	MAX			Prior 1 Oct	After 1 Oct				
		1	ALLIANT TECH (LCAAP), INDEPENDENCE, MO				1.15	3.96		1		Initial
							Reorder	6	4	9	13	
2	GENERAL DYNAMICS ORD& TAC SYS, ST PETERSBURG, FL		0.30	0.75		2	Initial	6	4	9	13	
							Reorder	6	4	9	13	
3	TO BE SELECTED		1.15	3.96		3	Initial	6	4	9	13	
							Reorder	6	4	9	13	
							Initial					
							Reorder					
							Initial					
							Reorder					

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

Date: February 2008

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

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

Program Elements for Code B Items:

Code:  
A

Other Related Program Elements:

	Prior Years	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013	To Complete	Total Prog
Proc Qty	79155	6017	8966	8022	8189	8397	8842	9087		136675
Gross Cost	125.3	14.4	20.4	21.6	22.7	23.8	25.6	26.8		280.8
Less PY Adv Proc										
Plus CY Adv Proc										
Net Proc P1	125.3	14.4	20.4	21.6	22.7	23.8	25.6	26.8		280.8
Initial Spares										
Total Proc Cost	125.3	14.4	20.4	21.6	22.7	23.8	25.6	26.8		280.8
Flyaway U/C										
Weapon System Proc U/C										

**Description:**

The .50 caliber item consists of Cartridge Ball M33 linked in 100-round belts with the M9 link for use in either Machine Gun M2 or M3. This round is 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 standard item used in both training and combat. FY 2009 procurement supports annual training and builds a war reserve inventory in accordance with the Army's procurement goals.

TYPE CLASSIFICATION DATE: 1951

<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 LEADFREE BALL M33 W/M9 LINK (E07100)			Weapon System Type:		Date: February 2008	
<b>AMMO Cost Elements</b>		ID CD	<b>FY 07</b>			<b>FY 08</b>			<b>FY 09</b>		
			Total Cost \$000	Qty x1000	Unit Cost \$	Total Cost \$000	Qty x1000	Unit Cost \$	Total Cost \$000	Qty x1000	Unit Cost \$
<b>HARDWARE</b>											
LOAD, ASSEMBLE, PACK			10468	6017	1.74	18860	8966	2.10	19604	8022	2.44
BOX METAL M2A1			560	61	9.13	990	91	10.83	906	81	11.18
<b>H/W SUBTOTAL</b>			<b>11028</b>			<b>19850</b>			<b>20510</b>		
<b>PRODUCTION SUPPORT COSTS</b>											
PRODUCTION ENGINEERING			493			537			1106		
QUALITY ASSURANCE			4			5			3		
ACCEPTANCE TESTING			43			25			11		
<b>PROD SUPPORT SUBTOTAL</b>			<b>540</b>			<b>567</b>			<b>1120</b>		
<b>NON-RECURRING COSTS</b>											
PLANT MODERNIZATION			760								
PROGRAM SUPPORT			710								
ATK INTELLECTUAL PROP SETTLEMENT			357								
PRODUCT IMPROVEMENT			997								
<b>NON-RECURRING SUBTOTAL</b>			<b>2824</b>								
<b>Total:</b>			<b>14392</b>		<b>2.39</b>	<b>20417</b>		<b>2.28</b>	<b>21630</b>		<b>2.70</b>

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

Date:  
February 2008

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
Appropriation/Budget Activity/Serial No: Procurement of Ammunition, Army/ 1/ Ammunition										
		Weapon System Type:	P-1 Line Item Nomenclature: CTG CAL .50 LEADFREE BALL M33 W/M9 LINK (E07100)							
<b>LOAD, ASSEMBLE, PACK</b>										
FY 2007	ALLIANT TECH (LCAAP) INDEPENDENCE, MO	SS/FP	ROCK ISLAND, IL	Jan 07	May 07	6017	1.74			
FY 2008	ALLIANT TECH (LCAAP) INDEPENDENCE, MO	SS/FP	ROCK ISLAND, IL	Jan 08	Oct 08	4842	2.10	Y		
FY 2008	GENERAL DYNAMICS ORD& TAC SYS ST PETERSBURG, FL	SS/FP	ROCK ISLAND, IL	Jun 08	Mar 09	4124	2.10	Y		
FY 2009	TO BE SELECTED	OTHER	ROCK ISLAND, IL	Jan 09	Oct 09	8022	2.44	Y		
<b>BOX METAL M2A1</b>										
FY 2007	BWAY CORPORATION ATLANTA, GA	C/OPTION	ROCK ISLAND, IL	Mar 07	Apr 07	51	9.13			
FY 2007	BEST FOAM FAB CHICAGO, IL	C/OPTION	ROCK ISLAND, IL	Mar 07	Apr 07	10	9.13			
FY 2008	BWAY CORPORATION ATLANTA, GA	C/OPTION	ROCK ISLAND, IL	Mar 08	Sep 08	73	10.83	Y		
FY 2008	BEST FOAM FAB CHICAGO, IL	C/OPTION	ROCK ISLAND, IL	Mar 08	Sep 08	18	10.83	Y		
FY 2009	BWAY CORPORATION ATLANTA, GA	C/OPTION	ROCK ISLAND, IL	Mar 09	Sep 09	65	11.18	Y		
FY 2009	BEST FOAM FAB CHICAGO, IL	C/OPTION	ROCK ISLAND, IL	Mar 09	Sep 09	16	11.18	Y		

REMARKS: OTHER - COMPETITION STRATEGY IS BEING FINALIZED.

FY 2008 LOAD, ASSEMBLE, PACK (LAP) IS AN AVERAGE UNIT COST FOR MULTIPLE PRODUCERS.

FY 2008 - FY 2009 BOX METAL M2A1 IS AN AVERAGE UNIT COST FOR MULTIPLE PRODUCERS.

<b>FY 08 / 09 BUDGET PRODUCTION SCHEDULE</b>	P-1 ITEM NOMENCLATURE CTG CAL .50 LEADFREE BALL M33 W/M9 LINK (E07100)	Date: February 2008
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COST ELEMENTS						Fiscal Year 08												Fiscal Year 09												Later
M F R	FY	S E R V	PROC QTY x1Mil	ACCEP PRIOR TO 1 OCT	BAL DUE AS OF 1 OCT	Calendar Year 08												Calendar Year 09												
						O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	

LOAD, ASSEMBLE, PACK																																
1	FY 07 P	A	4.42	0.00	4.42	1.20					0.12					1.30			1.80												0.00	
2	FY 07	A	6.02	2.41	3.61	0.32	0.04	0.55	0.66	0.38	0.41	0.42		0.54	0.25	0.04																0.00
2	FY 08	A	4.84	0.00	4.84				A									0.41	0.40	0.40	0.40	0.40	0.41	0.40	0.41	0.40	0.40	0.40	0.41	0.00		
1	FY 08	A	4.12	0.00	4.12								A									0.35	0.34	0.35	0.34	0.34	0.34	0.35	1.71			
3	FY 09	A	8.02	0.00	8.02															A										8.02		
2	FY 07	AF	0.50	0.00	0.50	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.05	0.05														0.00	
1	FY 07	AF	0.41	0.00	0.41		0.20	0.21																							0.00	
2	FY 08	AF	0.48	0.00	0.48													0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.00		
1	FY 08	AF	0.41	0.00	0.41																	0.04	0.03	0.04	0.03	0.03	0.04	0.04	0.16			
3	FY 09	AF	0.44	0.00	0.44																									0.44		
1	FY 07 P	MC	1.92	0.00	1.92			0.19			0.45							0.54			0.74									0.00		
						O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P			

M F R	Name - Location	PRODUCTION RATES			Reached D+	MFR	ADMIN LEAD TIME		MFR After 1 Oct	TOTAL After 1 Oct	REMARKS	
		MIN	1-8-5	MAX			Prior 1 Oct	After 1 Oct				
1	GENERAL DYNAMICS ORD& TAC SYS, ST PETERSBURG, FL		0.33	0.83		1	Initial	6	9	9	18	SHARED LINE FOR ALL .50 CAL AMMUNITION PRODUCED AT LAKE CITY ARMY AMMUNITION PLANT
						2	Reorder	6	9	9	18	
2	ALLIANT TECH (LCAAP), INDEPENDENCE, MO		5.99	20.77		1	Initial	6	4	9	13	
						2	Reorder	6	4	9	13	
3	TO BE SELECTED		5.99	20.77		1	Initial	6	4	9	13	
						2	Reorder	6	4	9	13	
						1	Initial					
						2	Reorder					
						1	Initial					
						2	Reorder					





<b>FY 10 / 11 BUDGET PRODUCTION SCHEDULE</b>	P-1 ITEM NOMENCLATURE CTG CAL .50 LEADFREE BALL M33 W/M9 LINK (E07100)	Date: February 2008
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COST ELEMENTS					Fiscal Year 10													Fiscal Year 11													Later	
M F R	FY	S E R V	PROC QTY x1Mil	ACCEP PRIOR TO 1 OCT	BAL DUE AS OF 1 OCT	Calendar Year 10													Calendar Year 11													
						O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P			

LOAD, ASSEMBLE, PACK																														
1	FY 07 P	A	4.42	4.42																								0.00		
2	FY 07	A	6.02	6.02																								0.00		
2	FY 08	A	4.84	4.84																								0.00		
1	FY 08	A	4.12	2.41	1.71	0.35	0.34	0.34	0.34	0.34																		0.00		
3	FY 09	A	8.02	0.00	8.02	0.67	0.67	0.66	0.66	0.67	0.67	0.67	0.67	0.67	0.67	0.67												0.00		
2	FY 07	AF	0.50	0.50																								0.00		
1	FY 07	AF	0.41	0.41																								0.00		
2	FY 08	AF	0.48	0.48																								0.00		
1	FY 08	AF	0.41	0.25	0.16	0.04	0.03	0.03	0.03	0.03																		0.00		
3	FY 09	AF	0.44	0.00	0.44	0.04	0.03	0.03	0.03	0.03	0.04	0.04	0.04	0.04	0.04	0.04												0.00		
1	FY 07 P	MC	1.92	1.92																								0.00		
						O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	

M F R	Name - Location	PRODUCTION RATES			Reached D+	MFR	ADMIN LEAD TIME		MFR After 1 Oct	TOTAL After 1 Oct	REMARKS
		MIN	1-8-5	MAX			Prior 1 Oct	After 1 Oct			
1	GENERAL DYNAMICS ORD& TAC SYS, ST PETERSBURG, FL		0.33	0.83		1	6	9	9	18	SHARED LINE FOR ALL .50 CAL AMMUNITION PRODUCED AT LAKE CITY ARMY AMMUNITION PLANT
						2	6	9	9	18	
2	ALLIANT TECH (LCAAP), INDEPENDENCE, MO		5.99	20.77		1	6	4	9	13	
						2	6	4	9	13	
3	TO BE SELECTED		5.99	20.77		1	6	4	9	13	
						2	6	4	9	13	
						3	6	4	9	13	
						1					
						2					
						3					
						1					



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

Date: February 2008

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

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

Program Elements for Code B Items:

Code:  
A

Other Related Program Elements:

	Prior Years	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013	To Complete	Total Prog
Proc Qty	533082	32324	28354	24972	24746	24625	25001	25042		718146
Gross Cost	579.2	83.2	70.9	72.9	74.3	75.8	77.3	78.9		1112.6
Less PY Adv Proc										
Plus CY Adv Proc										
Net Proc P1	579.2	83.2	70.9	72.9	74.3	75.8	77.3	78.9		1112.6
Initial Spares										
Total Proc Cost	579.2	83.2	70.9	72.9	74.3	75.8	77.3	78.9		1112.6
Flyaway U/C										
Weapon System Proc U/C										

**Description:**

The .50 caliber item consists of Cartridge, Ball M33 and Cartridge, Tracer M17 linked 4-to-1 in a 100-round belt with the M9 link for use in either the M2 or M3 Machine Gun. The tracer cartridge permits observation of the bullet's trajectory to the point of impact. This item is Code A, approved for service use.

**Justification:**

This is a training standard item used in both training and combat. FY 2009 procurement supports annual training and builds a war reserve inventory in accordance with the Army's procurement goals.

TYPE CLASSIFICATION DATE: 1968

Exhibit P-5, Weapon AMMO Cost Analysis	Appropriation/Budget Activity/Serial No: Procurement of Ammunition, Army / 1 / Ammunition	P-1 Line Item Nomenclature: CTG CAL .50 4 BALL/1 TRACER W/M9 LINK (E07200)			Weapon System Type:	Date: February 2008				
AMMO Cost Elements	ID	FY 07			FY 08			FY 09		
	CD	Total Cost	Qty	Unit Cost	Total Cost	Qty	Unit Cost	Total Cost	Qty	Unit Cost
		\$000	x1000	\$	\$000	x1000	\$	\$000	x1000	\$
<b>HARDWARE</b>										
LOAD, ASSEMBLE, PACK		71232	32324		63068	28354	2.22	65160	24972	2.61
BOX METAL M2A1		1730	191	9.07	3131	289	10.83	2820	252	11.18
<b>H/W SUBTOTAL</b>		<b>72962</b>			<b>66199</b>			<b>67980</b>		
<b>PRODUCTION SUPPORT COSTS</b>										
PRODUCTION ENGINEERING		3667			3391			3698		
QUALITY ASSURANCE		26			25			17		
ACCEPTANCE TESTING		309			132			65		
<b>PROD SUPPORT SUBTOTAL</b>		<b>4002</b>			<b>3548</b>			<b>3780</b>		
<b>NON-RECURRING COSTS</b>										
PLANT MODERNIZATION		1035			700			700		
PROGRAM SUPPORT		5022								
PRODUCT IMPROVEMENT		206			500			400		
<b>NON-RECURRING SUBTOTAL</b>		<b>6263</b>			<b>1200</b>			<b>1100</b>		
<b>Total:</b>		<b>83227</b>		<b>2.58</b>	<b>70947</b>		<b>2.50</b>	<b>72860</b>		<b>2.92</b>

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

Date:  
February 2008

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 \$000	Specs Avail Now?	Date Revsn Avail	RFP Issue Date
<b>LOAD, ASSEMBLE, PACK</b>										
FY 2007	ALLIANT TECH (LCAAP) INDEPENDENCE, MO	SS/FP	ROCK ISLAND, IL	Jan 07	Feb 08	17829	2.20			
FY 2007	GENERAL DYNAMICS ORD& TAC SYS ST PETERSBURG, FL	SS/FP	ROCK ISLAND, IL	Jan 07	Jan 09	14495	2.20			
FY 2008	ALLIANT TECH (LCAAP) INDEPENDENCE, MO	SS/FP	ROCK ISLAND, IL	Jan 08	Feb 09	16445	2.22	Y		
FY 2008	GENERAL DYNAMICS ORD& TAC SYS ST PETERSBURG, FL	SS/FP	ROCK ISLAND, IL	Jun 08	Nov 09	11909	2.22	Y		
FY 2009	TO BE SELECTED	OTHER	ROCK ISLAND, IL	Jan 09	Oct 09	24972	2.61	Y		
<b>BOX METAL M2A1</b>										
FY 2007	BWAY CORPORATION ATLANTA, GA	C/OPT	ROCK ISLAND, IL	Mar 07	Sep 07	161	9.07			
FY 2007	BEST FOAM FAB CHICAGO, IL	C/OPT	ROCK ISLAND, IL	Mar 07	Sep 07	30	9.07			
FY 2008	BWAY CORPORATION ATLANTA, GA	C/OPT	ROCK ISLAND, IL	Mar 08	Sep 08	231	10.83	Y		
FY 2008	BEST FOAM FAB CHICAGO, IL	C/OPT	ROCK ISLAND, IL	Mar 08	Sep 08	58	10.83	Y		
FY 2009	BWAY CORPORATION ATLANTA, GA	C/OPT	ROCK ISLAND, IL	Mar 09	Sep 09	202	11.18	Y		
FY 2009	BEST FOAM FAB CHICAGO, IL	C/OPT	ROCK ISLAND, IL	Mar 09	Sep 09	50	11.18	Y		

REMARKS: OTHER - COMPETITION STRATEGY IS BEING FINALIZED.

FY 2007 - FY 2008 LOAD, ASSEMBLE, PACK (LAP) IS AN AVERAGE UNIT COST FOR MULTIPLE PRODUCERS.

FY 2008 - FY 2009 BOX METAL M2A1 IS AN AVERAGE UNIT COST FOR MULTIPLE PRODUCERS.

<b>FY 08 / 09 BUDGET PRODUCTION SCHEDULE</b>	P-1 ITEM NOMENCLATURE CTG CAL .50 4 BALL/1 TRACER W/M9 LINK (E07200)	Date: February 2008
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COST ELEMENTS						Fiscal Year 08												Fiscal Year 09												Later
M F R	FY	S E R V	PROC QTY x1Mil	ACCEP PRIOR TO 1 OCT	BAL DUE AS OF 1 OCT	Calendar Year 08												Calendar Year 09												
						O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	

LOAD, ASSEMBLE, PACK																														
2	FY 07 P	A	23.90	3.80	20.10	1.70	0.60	0.60	1.40	1.80	3.40	0.75	0.75	4.20				2.50		2.40								0.00		
1	FY 07 P	A	17.10	9.71	7.39	2.50	1.90	1.00	1.20	0.79																		0.00		
1	FY 07	A	17.80	0.00	17.80					0.30	1.40	1.70	1.40	1.20	1.20	1.40	1.70	2.20	2.30	1.60	1.40							0.00		
2	FY 07	A	14.50	0.00	14.50																1.30	1.30	1.40	1.40	1.40	1.40	1.30	1.40	1.40	2.20
1	FY 08	A	16.40	0.00	16.40				A													2.00	2.10	2.00	2.10	2.00	2.00	2.10	2.10	0.00
2	FY 08	A	11.90	0.00	11.90								A															11.90		
3	FY 09	A	25.00	0.00	25.00																	A						25.00		
1	FY 07	AF	0.41	0.00	0.41			0.04	0.04	0.04	0.05	0.04	0.04	0.04	0.04	0.04												0.00		
1	FY 08	AF	1.09	0.00	1.09													0.10	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.00	
2	FY 08	AF	0.36	0.00	0.36																	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.15	
3	FY 09	AF	0.23	0.00	0.23																							0.23		
						O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	

M F R	Name - Location	PRODUCTION RATES			Reached D+	MFR	ADMIN LEAD TIME		MFR After 1 Oct	TOTAL After 1 Oct	REMARKS	
		MIN	1-8-5	MAX			Prior 1 Oct	After 1 Oct				
1	ALLIANT TECH (LCAAP), INDEPENDENCE, MO		5.99	20.77		1	Initial	6	4	9	13	SHARED LINE FOR ALL .50 CAL AMMUNITION PRODUCED AT LAKE CITY ARMY AMMUNITION PLANT.
						1	Reorder	6	4	9	13	
2	GENERAL DYNAMICS ORD& TAC SYS, ST PETERSBURG, FL		1.13	2.83		2	Initial	6	9	9	18	
						2	Reorder	6	9	9	18	
3	TO BE SELECTED		1.13	2.83		3	Initial	6	4	9	13	
						3	Reorder	6	4	9	13	
							Initial					
							Reorder					
							Initial					
							Reorder					



<b>FY 10 / 11 BUDGET PRODUCTION SCHEDULE</b>	P-1 ITEM NOMENCLATURE CTG CAL .50 4 BALL/1 TRACER W/M9 LINK (E07200)	Date: February 2008
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COST ELEMENTS						Fiscal Year 10													Fiscal Year 11													Later
M F R	FY	S E R V	PROC QTY x1Mil	ACCEP PRIOR TO 1 OCT	BAL DUE AS OF 1 OCT	Calendar Year 10													Calendar Year 11													
						O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P			

LOAD, ASSEMBLE, PACK																																	
2	FY 07 P	A	23.90	23.90																													0.00
1	FY 07 P	A	17.10	17.10																													0.00
1	FY 07	A	17.80	17.80																													0.00
2	FY 07	A	14.50	12.30	2.20	1.40	0.80																										0.00
1	FY 08	A	16.40	16.40																													0.00
2	FY 08	A	11.90	0.00	11.90		0.60	1.30	1.30	1.30	1.40	1.40	1.40	1.40	1.40	0.40																	0.00
3	FY 09	A	25.00	0.00	25.00	2.10	2.10	2.00	2.00	2.10	2.10	2.10	2.10	2.10	2.10	2.10																	0.00
1	FY 07	AF	0.41	0.41																													0.00
1	FY 08	AF	1.09	1.09																													0.00
2	FY 08	AF	0.36	0.21	0.15	0.03	0.03	0.03	0.03	0.03																						0.00	
3	FY 09	AF	0.23	0.00	0.23	0.02	0.02	0.01	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02																	0.00
						O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P				

M F R	Name - Location	PRODUCTION RATES			Reached D+	MFR	ADMIN LEAD TIME		MFR After 1 Oct	TOTAL After 1 Oct	REMARKS	
		MIN	1-8-5	MAX			Prior 1 Oct	After 1 Oct				
1	ALLIANT TECH (LCAAP), INDEPENDENCE, MO		5.99	20.77		1	Initial	6	4	9	13	SHARED LINE FOR ALL .50 CAL AMMUNITION PRODUCED AT LAKE CITY ARMY AMMUNITION PLANT.
						1	Reorder	6	4	9	13	
2	GENERAL DYNAMICS ORD& TAC SYS, ST PETERSBURG, FL		1.13	2.83		2	Initial	6	9	9	18	
						2	Reorder	6	9	9	18	
3	TO BE SELECTED		1.13	2.83		3	Initial	6	4	9	13	
						3	Reorder	6	4	9	13	
							Initial					
							Reorder					
							Initial					
							Reorder					



**FY 10 / 11 BUDGET PRODUCTION SCHEDULE**

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

Date: February 2008

COST ELEMENTS						Fiscal Year 10													Fiscal Year 11													Later				
M F R	FY	S E R V	PROC QTY x1Mil	ACCEP PRIOR TO 1 OCT	BAL DUE AS OF 1 OCT	Calendar Year 10													Calendar Year 11																	
						O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P							
3	FY 09	AF	0.13	0.00	0.13							0.01	0.01	0.01	0.01	0.01	0.01	0.02	0.01	0.01	0.01	0.01														0.00
1	FY 07	CG	0.58	0.58																																0.00
3	FY 09	CG	0.37	0.00	0.37	0.04	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03																		0.00	
2	FY 09	CG	0.21	0.00	0.21							0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.01	0.01	0.01												0.00	
1	FY 07	NS	4.14	4.14																															0.00	
1	FY 08	NS	3.33	3.33																															0.00	
2	FY 08	NS	1.11	0.65	0.46	0.10	0.09	0.09	0.09	0.09																									0.00	
3	FY 09	NS	2.23	0.00	2.23	0.19	0.18	0.18	0.18	0.18	0.19	0.19	0.19	0.19	0.18	0.19	0.19																		0.00	
2	FY 09	NS	1.25	0.00	1.25							0.11	0.11	0.11	0.10	0.10	0.11	0.10	0.11	0.10	0.10	0.10	0.10	0.10										0.00		
Total			142.04	97.91	44.13	3.88	3.85	3.64	3.65	3.75	3.88	3.88	3.88	3.87	3.86	2.88	2.47	0.15	0.13	0.12	0.12	0.12														
						O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P							

M F R	Name - Location	PRODUCTION RATES			Reached D+	MFR	ADMIN LEAD TIME		MFR After 1 Oct	TOTAL After 1 Oct	REMARKS	
		MIN	1-8-5	MAX			Prior 1 Oct	After 1 Oct				
1	ALLIANT TECH (LCAAP), INDEPENDENCE, MO		5.99	20.77		1	Initial	6	4	9	13	SHARED LINE FOR ALL .50 CAL AMMUNITION PRODUCED AT LAKE CITY ARMY AMMUNITION PLANT.
						1	Reorder	6	4	9	13	
2	GENERAL DYNAMICS ORD& TAC SYS, ST PETERSBURG, FL		1.13	2.83		2	Initial	6	9	9	18	
						2	Reorder	6	9	9	18	
3	TO BE SELECTED		1.13	2.83		3	Initial	6	4	9	13	
						3	Reorder	6	4	9	13	
							Initial					
							Reorder					
							Initial					
							Reorder					

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

Date: February 2008

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

P-1 Item Nomenclature  
CTG CAL .50 BLANK M1A1 LKD W/M9 LINK F/M (E07302)

Program Elements for Code B Items:

Code:  
A

Other Related Program Elements:

	Prior Years	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013	To Complete	Total Prog
Proc Qty	85611	6183	13753	6020	5328	4764	5551	4389		131599
Gross Cost	78.9	8.4	17.8	8.8	8.3	7.8	7.6	6.3		143.8
Less PY Adv Proc										
Plus CY Adv Proc										
Net Proc P1	78.9	8.4	17.8	8.8	8.3	7.8	7.6	6.3		143.8
Initial Spares										
Total Proc Cost	78.9	8.4	17.8	8.8	8.3	7.8	7.6	6.3		143.8
Flyaway U/C										
Weapon System Proc U/C										

**Description:**

The .50 caliber item consists of cartridge, M1A1 linked in 100-round belts with the M9 link. This round is a blank cartridge with a rosette crimp at the mouth used to simulate firing in training exercises in conjunction with the M19 Blank Firing Attachment (BFA). This item is Code A, approved for service use.

**Justification:**

This is a training unique item not used in combat. FY 2009 procurement supports annual training and builds a depot level in accordance with the Army's procurement goals.

TYPE CLASSIFICATION DATE: 1980

<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 BLANK M1A1 LKD W/M9 LINK F/M (E07302)			Weapon System Type:		Date: February 2008		
<b>AMMO Cost Elements</b>		ID CD	<b>FY 07</b>			<b>FY 08</b>			<b>FY 09</b>		
			Total Cost \$000	Qty x1000	Unit Cost \$	Total Cost \$000	Qty x1000	Unit Cost \$	Total Cost \$000	Qty x1000	Unit Cost \$
<b>HARDWARE</b>											
LOAD, ASSEMBLE, PACK			5574	6183	0.90	13815	13753	1.00	5871	6020	0.98
BOX METAL M2A1			580	63	9.19	1519	140	10.83	680	61	11.18
<b>H/W SUBTOTAL</b>			<b>6154</b>			<b>15334</b>			<b>6551</b>		
<b>PRODUCTION SUPPORT COSTS</b>											
PRODUCTION ENGINEERING			320			349			929		
QUALITY ASSURANCE			5			6			4		
<b>PROD SUPPORT SUBTOTAL</b>			<b>325</b>			<b>355</b>			<b>933</b>		
<b>NON-RECURRING COSTS</b>											
PLANT MODERNIZATION			400								
PROGRAM SUPPORT			56								
PRODUCT IMPROVEMENT			1134			2100			1300		
ATK INTELLECTUAL PROP SETTLEMENT			171								
TECH & ENGR SUPPORT			119								
<b>NON-RECURRING SUBTOTAL</b>			<b>1880</b>			<b>2100</b>			<b>1300</b>		
<b>Total:</b>			<b>8359</b>		<b>1.35</b>	<b>17789</b>		<b>1.30</b>	<b>8784</b>		<b>1.46</b>

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

Date:  
February 2008

Appropriation/Budget Activity/Serial No: Procurement of Ammunition, Army/ 1/ Ammunition	Weapon System Type:	P-1 Line Item Nomenclature: CTG CAL .50 BLANK M1A1 LKD W/M9 LINK F/M (E07302)								
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>LOAD, ASSEMBLE, PACK</b>										
FY 2007	ALLIANT TECH (LCAAP) INDEPENDENCE, MO	SS/FP	ROCK ISLAND, IL	Jan 07	Dec 07	6183	0.90			
FY 2008	ALLIANT TECH (LCAAP) INDEPENDENCE, MO	SS/FP	ROCK ISLAND, IL	Jan 08	Apr 09	13753	1.00	Y		
FY 2009	TO BE SELECTED	OTHER	ROCK ISLAND, IL	Jan 09	Oct 09	6020	0.98	Y		
<b>BOX METAL M2A1</b>										
FY 2007	BWAY CORPORATION ATLANTA, GA	C/OPT	ROCK ISLAND, IL	Mar 07	Sep 07	50	9.19			
FY 2007	BEST FOAM FAB CHICAGO, IL	C/OPT	ROCK ISLAND, IL	Mar 07	Sep 07	13	9.19			
FY 2008	BWAY CORPORATION ATLANTA, GA	C/OPT	ROCK ISLAND, IL	Mar 08	Sep 08	112	10.83	Y		
FY 2008	BEST FOAM FAB CHICAGO, IL	C/OPT	ROCK ISLAND, IL	Mar 08	Sep 08	28	10.83	Y		
FY 2009	BWAY CORPORATION ATLANTA, GA	C/OPT	ROCK ISLAND, IL	Mar 09	Sep 09	49	11.18	Y		
FY 2009	BEST FOAM FAB CHICAGO, IL	C/OPT	ROCK ISLAND, IL	Mar 09	Sep 09	12	11.18	Y		

REMARKS: OTHER - COMPETITION STRATEGY IS BEING FINALIZED.

FY 2008 - FY 2009 BOX METAL M2A1 IS AN AVERAGE UNIT COST FOR MULTIPLE PRODUCERS.

**FY 08 / 09 BUDGET PRODUCTION SCHEDULE**

P-1 ITEM NOMENCLATURE  
CTG CAL .50 BLANK M1A1 LKD W/M9 LINK F/M (E07302)

Date:  
February 2008

**COST ELEMENTS**

**Fiscal Year 08**

**Fiscal Year 09**

M F R	FY	S E R V	PROC QTY  x1Mil	ACCEP PRIOR  TO 1 OCT	BAL DUE  AS OF 1 OCT	Calendar Year 08													Calendar Year 09										Later
						O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	

**LOAD, ASSEMBLE, PACK**

1	FY 07 P	A	3.53	2.74	0.79	0.74	0.05																											0.00
1	FY 07	A	6.18	0.00	6.18		0.21	0.21	0.31	0.31	0.31	0.26	0.26	0.23	0.44	0.54	0.49	0.49	0.39	0.49	0.55	0.55	0.14											0.00
1	FY 08	A	13.80	0.00	13.80				A																2.00	2.30	2.30	2.40	2.40	2.40	2.40			0.00
2	FY 09	A	6.02	0.00	6.02																A												6.02	
1	FY 07	AF	0.12	0.00	0.12				0.12																									0.00
1	FY 08	AF	0.09	0.00	0.09													0.01	0.01					0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.00
2	FY 09	AF	0.09	0.00	0.09																													0.09
1	FY 07	CG	0.07	0.00	0.07		0.07																											0.00
2	FY 09	CG	0.07	0.00	0.07																													0.07
1	FY 07 P	MC	2.28	0.00	2.28		0.50		0.16	0.24	0.24	0.25	0.24	0.24	0.24				0.06	0.06	0.05												0.00	
1	FY 07	MC	0.18	0.00	0.18											0.06	0.06	0.06																0.00

O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P
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M F R	Name - Location	PRODUCTION RATES			Reached D+	MFR	ADMIN LEAD TIME		MFR After 1 Oct	TOTAL After 1 Oct	REMARKS	
		MIN	1-8-5	MAX			Prior 1 Oct	After 1 Oct				
1	ALLIANT TECH (LCAAP), INDEPENDENCE, MO		2.74	9.47		1	Initial	6	4	9	13	SHARED LINE FOR ALL .50 CAL AMMUNITION PRODUCED AT LAKE CITY ARMY AMMUNITION PLANT.
							Reorder	6	4	9	13	
2	TO BE SELECTED		2.74	9.47		2	Initial	6	4	9	13	
							Reorder	6	4	9	13	
							Initial					
							Reorder					
							Initial					
							Reorder					

**FY 08 / 09 BUDGET PRODUCTION SCHEDULE**

P-1 ITEM NOMENCLATURE  
CTG CAL .50 BLANK M1A1 LKD W/M9 LINK F/M (E07302)

Date: February 2008

COST ELEMENTS						Fiscal Year 08														Fiscal Year 09														Later
MFR	FY	SERV	PROC QTY x1Mil	ACCEP PRIOR TO 1 OCT	BAL DUE AS OF 1 OCT	Calendar Year 08														Calendar Year 09														
						OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP					
1	FY 08	MC	0.18	0.00	0.18																0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.00
2	FY 09	MC	0.10	0.00	0.10																													0.10
1	FY 08	SOF	0.70	0.00	0.70													0.06	0.05	0.05	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.00	
<b>Total</b>						33.41	2.74	30.67	0.74	0.83	0.21	0.59	0.55	0.55	0.51	0.50	0.47	0.68	0.60	0.55	0.62	0.51	0.60	0.68	0.63	0.23	2.09	2.39	2.39	2.49	2.49	2.49	6.28	
						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	ADMIN LEAD TIME		MFR After 1 Oct	TOTAL After 1 Oct	REMARKS	
		MIN	1-8-5	MAX			Prior 1 Oct	After 1 Oct				
1	ALLIANT TECH (LCAAP), INDEPENDENCE, MO		2.74	9.47		1	Initial	6	4	9	13	SHARED LINE FOR ALL .50 CAL AMMUNITION PRODUCED AT LAKE CITY ARMY AMMUNITION PLANT.
							Reorder	6	4	9	13	
2	TO BE SELECTED		2.74	9.47		2	Initial	6	4	9	13	
							Reorder	6	4	9	13	
							Initial					
							Reorder					
							Initial					
							Reorder					

<b>FY 10 / 11 BUDGET PRODUCTION SCHEDULE</b>	P-1 ITEM NOMENCLATURE CTG CAL .50 BLANK M1A1 LKD W/M9 LINK F/M (E07302)	Date: February 2008
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COST ELEMENTS					Fiscal Year 10													Fiscal Year 11													Later	
M F R	FY	S E R V	PROC QTY x1Mil	ACCEP PRIOR TO 1 OCT	BAL DUE AS OF 1 OCT	Calendar Year 10													Calendar Year 11													
						O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P			

LOAD, ASSEMBLE, PACK																														
1	FY 07 P	A	3.53	3.53																								0.00		
1	FY 07	A	6.18	6.18																								0.00		
1	FY 08	A	13.80	13.80																								0.00		
2	FY 09	A	6.02	0.00	6.02	0.51	0.50	0.50	0.50	0.50	0.51	0.50	0.50	0.50	0.50	0.50												0.00		
1	FY 07	AF	0.12	0.12																								0.00		
1	FY 08	AF	0.09	0.09																								0.00		
2	FY 09	AF	0.09	0.00	0.09	0.01				0.01	0.01	0.01	0.01	0.01	0.01	0.01												0.00		
1	FY 07	CG	0.07	0.07																								0.00		
2	FY 09	CG	0.07	0.00	0.07	0.01	0.01			0.01	0.01	0.01		0.01		0.01												0.00		
1	FY 07 P	MC	2.28	2.28																								0.00		
1	FY 07	MC	0.18	0.18																								0.00		
						O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	

M F R	Name - Location	PRODUCTION RATES			Reached D+	MFR	ADMIN LEAD TIME		MFR After 1 Oct	TOTAL After 1 Oct	REMARKS	
		MIN	1-8-5	MAX			Prior 1 Oct	After 1 Oct				
1	ALLIANT TECH (LCAAP), INDEPENDENCE, MO		2.74	9.47		1	Initial	6	4	9	13	SHARED LINE FOR ALL .50 CAL AMMUNITION PRODUCED AT LAKE CITY ARMY AMMUNITION PLANT.
							Reorder	6	4	9	13	
2	TO BE SELECTED		2.74	9.47		2	Initial	6	4	9	13	
							Reorder	6	4	9	13	
							Initial					
							Reorder					
							Initial					
							Reorder					





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

Date: February 2008

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

P-1 Item Nomenclature  
CTG CAL .50 LKD 4-SLAP M903/1-SLAPT M96 (F88000)

Program Elements for Code B Items:

Code:  
A

Other Related Program Elements:

	Prior Years	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013	To Complete	Total Prog
Proc Qty	4302	2903	1063	1128	1103	1076				11575
Gross Cost	41.2	32.6	14.4	15.0	15.0	15.0				133.3
Less PY Adv Proc										
Plus CY Adv Proc										
Net Proc P1	41.2	32.6	14.4	15.0	15.0	15.0				133.3
Initial Spares										
Total Proc Cost	41.2	32.6	14.4	15.0	15.0	15.0				133.3
Flyaway U/C										
Weapon System Proc U/C										

**Description:**

The .50 caliber Saboted Light Armor Penetrator (SLAP), M903 cartridge consists of a low-drag, tungsten-alloy penetrator encased in a lightweight plastic sabot loaded into otherwise conventional Caliber .50 cartridge components. The projectile assembly is launched at approximately 4000 feet per second and the sabot is discarded shortly after muzzle exit. The companion M962 SLAP-Tracer cartridge is similar in configuration to the M903 except that the penetrator has a cavity containing tracer mix. The M962 provides the precision of delivery necessary to take full advantage of the penetrator cartridge capability. 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.

**Justification:**

This is a training standard item used in both training and combat. FY 2009 procurement supports annual training and builds a war reserve in accordance with the Army's procurement goals. The SLAP is used in combat against current and future light armored targets and Armored Attack Helicopters (AAHs). The M903 provides the M2 Machine Gun with a more effective capability against improved armored vehicles increasing penetration of light armor by a factor of two to three times at any given range over that of currently available ammunition.

TYPE CLASSIFICATION DATE: MARCH 1993

<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 LKD 4-SLAP M903/1-SLAPT M96 (F88000)			Weapon System Type:		Date: February 2008	
<b>AMMO Cost Elements</b>		ID CD	<b>FY 07</b>			<b>FY 08</b>			<b>FY 09</b>		
			Total Cost \$000	Qty Units	Unit Cost \$000	Total Cost \$000	Qty Units	Unit Cost \$000	Total Cost \$000	Qty Units	Unit Cost \$000
<b>HARDWARE</b>											
COMPLETE ROUND		A	31034	2903	10.69	12816	1063	12.06	13898	1128	12.32
<b>H/W SUBTOTAL</b>			<b>31034</b>			<b>12816</b>			<b>13898</b>		
<b>PRODUCTION SUPPORT COSTS</b>											
PRODUCTION ENGINEERING			807			1084			1102		
ACCEPTANCE TESTING			529								
<b>PROD SUPPORT SUBTOTAL</b>			<b>1336</b>			<b>1084</b>			<b>1102</b>		
<b>NON-RECURRING COSTS</b>											
TECHNICAL SUPPORT			270			500					
<b>NON-RECURRING SUBTOTAL</b>			<b>270</b>			<b>500</b>					
<b>Total:</b>			<b>32640</b>		<b>11.24</b>	<b>14400</b>		<b>13.55</b>	<b>15000</b>		<b>13.29</b>

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

Date:  
February 2008

Appropriation/Budget Activity/Serial No: Procurement of Ammunition, Army/ 1/ Ammunition		Weapon System Type:	P-1 Line Item Nomenclature: CTG CAL .50 LKD 4-SLAP M903/1-SLAPT M96 (F88000)							
WBS Cost Elements:	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY Units	Unit Cost \$000	Specs Avail Now?	Date Revsn Avail	RFP Issue Date
<b>COMPLETE ROUND</b>										
FY 2007	Olin East Alton, IL	SS/FP	Picatinny, NJ	Jul 07	Apr 08	2903	10.69	Y		
FY 2008	Olin East Alton, IL	SS/OPT	Picatinny, NJ	Jan 08	Apr 09	1063	12.06	Y		
FY 2009	Olin East Alton, IL	SS/OPT	Picatinny, NJ	Jan 09	Apr 10	1128	12.32	Y		

REMARKS:



<b>FY 10 / 11 BUDGET PRODUCTION SCHEDULE</b>	P-1 ITEM NOMENCLATURE CTG CAL .50 LKD 4-SLAP M903/1-SLAPT M96 (F88000)	Date: February 2008
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COST ELEMENTS						Fiscal Year 10													Fiscal Year 11													Later
M F R	FY	S E R V	PROC QTY x1000	ACCEP PRIOR TO 1 OCT	BAL DUE AS OF 1 OCT	Calendar Year 10													Calendar Year 11													
						O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P			

COMPLETE ROUND																														
1	FY 07	A	2903	2903																										0
1	FY 08	A	1063	697	366	200	166																							0
1	FY 09	A	1128	0	1128						200	200	200	200	200	128														0
Total			5094	3600	1494	200	166				200	200	200	200	200	128														
						O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	

M F R	Name - Location	PRODUCTION RATES			Reached D+	MFR	ADMIN LEAD TIME		MFR After 1 Oct	TOTAL After 1 Oct	REMARKS SHARED LINE WITH OTHER PRODUCT LINES	
		MIN	1-8-5	MAX			Prior 1 Oct	After 1 Oct				
1	Olin, East Alton, IL	50	80	200		1	Initial	3	10	9	19	
							Reorder	3	4	15	19	
							Initial					
							Reorder					
							Initial					
							Reorder					
							Initial					
							Reorder					
							Initial					
							Reorder					

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

Date: February 2008

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:  
A

Other Related Program Elements:

	Prior Years	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013	To Complete	Total Prog
Proc Qty										
Gross Cost	39.2	49.3								88.5
Less PY Adv Proc										
Plus CY Adv Proc										
Net Proc P1	39.2	49.3								88.5
Initial Spares										
Total Proc Cost	39.2	49.3								88.5
Flyaway U/C										
Weapon System Proc U/C										

**Description:**

This budget line includes 20MM ALL TYPES.

FY 2007 funding total includes \$49.2 million received in GWOT supplemental.

FY 2008 funding total includes \$0 received in The Consolidated Appropriations Act, 2008 (P.L. 110-161).

FY 2008 funding totals do not include \$0 previously requested for current FY 2008 GWOT 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: CTG, 20MM, ALL TYPES (E08900)			Weapon System Type:	Date: February 2008				
<b>AMMO Cost Elements</b>	ID	<b>FY 07</b>			<b>FY 08</b>			<b>FY 09</b>		
	CD	Total Cost	Qty	Unit Cost	Total Cost	Qty	Unit Cost	Total Cost	Qty	Unit Cost
		\$000	x1000	\$	\$000	x1000	\$	\$000	x1000	\$
E08909 CTG 20MM MPT-SD M940 W/MK7 LINK		49301	1692	29.14						
<b>Total:</b>		<b>49301</b>								

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

Date: February 2008

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

P-1 Item Nomenclature  
CTG 20MM MPT-SD M940 w/MK7 Link (E08909)

Program Elements for Code B Items:

Code: A

Other Related Program Elements:

	Prior Years	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013	To Complete	Total Prog
Proc Qty	1384	1692								3076
Gross Cost	39.2	49.3								88.5
Less PY Adv Proc										
Plus CY Adv Proc										
Net Proc P1	39.2	49.3								88.5
Initial Spares										
Total Proc Cost	39.2	49.3								88.5
Flyaway U/C										
Weapon System Proc U/C	0.0	0.0								0.1

**Description:**

The 20mm Multipurpose Trace - Self Destroying (MP-T-SD) cartridge is an improved, fuzeless pyrotechnic initiated 20mm high explosive cartridge. The projectile consists of a heavy walled steel body charged with an explosive mix and an incendiary mix. The projectile has safe and arming, tracer, and self-destroying features. It is effective against light armor at 1,000 meters and against airborne and light surface targets at 2,000 meters. The projectile self destructs at 2,300 meters, minimizing collateral surface damage when engaging airborne targets. The M940 replaced the M246 High Explosive Incendiary-Tracer, Self Destroying (HEI-T-SD) as the primary air defense cartridge. It will be used for training and qualifying the Counter Rocket, Artillery and Mortar (C-RAM) System. This item is Code A; approved for service use.

**Justification:**

This is a training standard item used in both training and combat. C-RAM is an air defense system using a trailer-mounted Phalanx gun to defeat incoming rocket, mortar and artillery rounds in flight. The operational scenario requires self destruct ammunition.

Type Classification Date: 1989



AMMO Cost Elements		ID CD	FY 07			FY 08			FY 09		
			Total Cost	Qty	Unit Cost	Total Cost	Qty	Unit Cost	Total Cost	Qty	Unit Cost
			\$000	x1000	\$	\$000	x1000	\$	\$000	x1000	\$
<b>HARDWARE</b>											
COMPLETE ROUND											
			47087	1692	27.83						
<b>H/W SUBTOTAL</b>			<b>47087</b>								
<b>PRODUCTION SUPPORT COSTS</b>											
PRODUCTION ENGINEERING											
			1709								
QUALITY ASSURANCE											
			38								
ACCEPTANCE TESTING											
			467								
<b>PROD SUPPORT SUBTOTAL</b>			<b>2214</b>								
<b>Total:</b>			<b>49301</b>		<b>29.14</b>						

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

Date:  
February 2008

Appropriation/Budget Activity/Serial No: Procurement of Ammunition, Army/ 1/ Ammunition		Weapon System Type:	P-1 Line Item Nomenclature: CTG 20MM MPT-SD M940 w/MK7 Link (E08909)							
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>COMPLETE ROUND</b>										
FY 2007	GENERAL DYNAMICS ORD& TAC SYS MARION, IL	C/OPTION	ROCK ISLAND, IL	Apr 07	Jan 08	1015	27.83			
FY 2007	ALLIANT TECHSYSTEMS INC. MESA, AZ	C/OPTION	ROCK ISLAND, IL	Mar 07	Mar 08	677	27.83			

REMARKS: FY 2007 COMPLETE ROUND IS AN AVERAGE UNIT COST FOR MULTIPLE PRODUCERS.

<b>FY 08 / 09 BUDGET PRODUCTION SCHEDULE</b>	P-1 ITEM NOMENCLATURE CTG 20MM MPT-SD M940 w/MK7 Link (E08909)	Date: February 2008
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COST ELEMENTS						Fiscal Year 08													Fiscal Year 09													Later
M F R	FY	S E R V	PROC QTY  x1Mil	ACCEP PRIOR TO 1 OCT	BAL DUE AS OF 1 OCT	Calendar Year 08													Calendar Year 09													
						O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P			

COMPLETE ROUND																														
1	FY 07 P	A	0.51	0.40	0.11	0.05	0.01		0.05																					0.00
2	FY 07 P	A	0.24	0.00	0.24		0.04	0.04	0.05	0.09	0.02																			0.00
1	FY 07	A	1.02	0.00	1.02			0.11	0.09		0.10	0.10	0.05	0.57																0.00
2	FY 07	A	0.68	0.00	0.68					0.06	0.06	0.08	0.05	0.05	0.05	0.10	0.05	0.05	0.05	0.08										0.00
Total			2.45	0.40	2.05	0.05	0.05	0.04	0.21	0.18	0.08	0.16	0.18	0.10	0.62	0.05	0.10	0.05	0.05	0.05	0.08									
						O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	

M F R	Name - Location	PRODUCTION RATES			Reached D+	MFR	ADMIN LEAD TIME		MFR After 1 Oct	TOTAL After 1 Oct	REMARKS	
		MIN	1-8-5	MAX			Prior 1 Oct	After 1 Oct				
1	GENERAL DYNAMICS ORD& TAC SYS, MARION, IL		0.07	0.21		1	Initial	6	6	12	18	
		Reorder	6	6	12	18						
2	ALLIANT TECHSYSTEMS INC., MESA, AZ		0.03	0.75		2	Initial	6	6	12	18	
		Reorder	6	6	12	18						
							Initial					
							Reorder					
							Initial					
							Reorder					
							Initial					
							Reorder					

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

Date: February 2008

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 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013	To Complete	Total Prog
Proc Qty										
Gross Cost	1359.7	39.0	29.3	14.7	29.6	29.7	31.2	30.7		1564.0
Less PY Adv Proc										
Plus CY Adv Proc										
Net Proc P1	1359.7	39.0	29.3	14.7	29.6	29.7	31.2	30.7		1564.0
Initial Spares										
Total Proc Cost	1359.7	39.0	29.3	14.7	29.6	29.7	31.2	30.7		1564.0
Flyaway U/C										
Weapon System Proc U/C										

**Description:**

This budget line includes 25MM ALL TYPES.

FY 2007 funding total includes \$15 million received in GWOT supplemental.

FY 2008 funding total includes \$.3 million received in The Consolidated Appropriations Act, 2008 (P.L. 110-161).

FY 2008 funding totals do not include \$14.7 million previously requested for current FY 2008 GWOT requirements.

Actual amount for FY07 reflect changes since the publication of the P-1.

<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: February 2008		
<b>AMMO Cost Elements</b>		ID CD	<b>FY 07</b>			<b>FY 08</b>			<b>FY 09</b>		
			Total Cost	Qty	Unit Cost	Total Cost	Qty	Unit Cost	Total Cost	Qty	Unit Cost
			\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000
E08201 CTG 25MM HEI-T M792			15591	299	52.14	300					
E08203 CTG 25MM TP-T M793			11907	678	17.56	14395	866	16.62	6239	267	23.37
E08204 CTG 25MM TPDS-T M910			10142	440	23.05	14650	671	21.83	8503	294	28.92
E08909 CTG 25MM Dummy M794			1320	24	55.00						
<b>Total:</b>			<b>38960</b>			<b>29345</b>			<b>14742</b>		

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

Date: February 2008

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

P-1 Item Nomenclature  
CTG 25MM HEI-T M792 (E08201)

Program Elements for Code B Items:

Code:  
A

Other Related Program Elements:

	Prior Years	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013	To Complete	Total Prog
Proc Qty	7694	299								7993
Gross Cost	229.4	15.6	0.3							245.3
Less PY Adv Proc										
Plus CY Adv Proc										
Net Proc P1	229.4	15.6	0.3							245.3
Initial Spares										
Total Proc Cost	229.4	15.6	0.3							245.3
Flyaway U/C										
Weapon System Proc U/C										

**Description:**

The 25mm M792 is a High Explosive Incendiary Tracer (HEI-T) cartridge, fired from the M242 Bushmaster automatic cannon mounted on the Army's Bradley Fighting Vehicles (BFV) and the USMC Light Armored Vehicles. The M792 provides lethality against structures and vehicles. The defeat mechanism of the M792 is an explosively loaded, naturally fragmenting warhead with incendiary charge. This item is Code A, approved for service use.

**Justification:**

This is a war reserve item. Procurement supports engineering efforts in support of production.

TYPE CLASSIFICATION DATE: 1980

<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 HEI-T M792 (E08201)			Weapon System Type:		Date: February 2008	
<b>AMMO Cost Elements</b>		ID	<b>FY 07</b>			<b>FY 08</b>			<b>FY 09</b>		
		CD	Total Cost	Qty	Unit Cost	Total Cost	Qty	Unit Cost	Total Cost	Qty	Unit Cost
			\$000	x1000	\$	\$000	x1000	\$	\$000	x1000	\$
<b>AMMUNITION HARDWARE</b>											
Load Assemble Pack (LAP)			14253	299	46.90						
PA 125 Containers			457	10	45.69						
Pallets			290	290	1001.50						
<b>SubTotal AMMO Hardware</b>			<b>15000</b>								
<b>PRODUCTION SUPPORT COSTS</b>											
Production Engineering			591			300					
<b>SubTotal Production Support</b>			<b>591</b>			<b>300</b>					
<b>Total:</b>			<b>15591</b>		<b>52.14</b>	<b>300</b>					

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

Date:  
February 2008

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>Appropriation/Budget Activity/Serial No:</b> Procurement of Ammunition, Army/ 1/ Ammunition	<b>Weapon System Type:</b> P-1 Line Item Nomenclature: CTG 25MM HEI-T M792 (E08201)									
<b>Load Assemble Pack (LAP)</b> FY 2007	ALLIANT TECHSYSTEMS INC ANOKA, MN	C/OPT	Picatinny Arsenal, NJ	Jun 07	Jul 08	299	46.90	Y		
<b>PA 125 Containers</b> FY 2007	CONCO Louisville, KY	C/FP	Rock Island IL	Aug 07	Jul 08	10	45.69	Y		
<b>Pallets</b> FY 2007	CHOCTAW MFG & DEV CORP Hugo Ok	C/FP	Picatinny Arsenal, NJ	Nov 07	May 08	290	1001.50	Y		

REMARKS:



<b>FY 08 / 09 BUDGET PRODUCTION SCHEDULE</b>	P-1 ITEM NOMENCLATURE CTG 25MM HEI-T M792 (E08201)	Date: February 2008
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COST ELEMENTS						Fiscal Year 08												Fiscal Year 09												Later						
MFR	FY	SERV	PROC QTY x1000	ACCEP PRIOR TO 1 OCT	BAL DUE AS OF 1 OCT	Calendar Year 08												Calendar Year 09																		
						OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP							
1	FY 07 P	A	699	0	699							97			97		219	76	73	76	61															0
1	FY 07 P	MC	318	0	318							159									15	74	70												0	
Total			1017		1017							159	97		97		219	76	73	76	76	74	70													
						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 1	ADMIN LEAD TIME		MFR After 1 Oct	TOTAL After 1 Oct	REMARKS	
		MIN	1-8-5	MAX			Prior 1 Oct	After 1 Oct				
1	ALLIANT TECHSYSTEMS INC, ANOKA, MN	200	340	400		1	Initial	3	12	19	31	
							Reorder	3	12	18	30	
							Initial					
							Reorder					
							Initial					
							Reorder					
							Initial					
							Reorder					
							Initial					
							Reorder					

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

Date: February 2008

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

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

Program Elements for Code B Items:

Code:  
A

Other Related Program Elements:

	Prior Years	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013	To Complete	Total Prog
Proc Qty	27817	678	866	267	778	676	729	732		32543
Gross Cost	389.3	11.9	14.4	6.2	14.7	14.8	16.2	16.7		484.2
Less PY Adv Proc										
Plus CY Adv Proc										
Net Proc P1	389.3	11.9	14.4	6.2	14.7	14.8	16.2	16.7		484.2
Initial Spares										
Total Proc Cost	389.3	11.9	14.4	6.2	14.7	14.8	16.2	16.7		484.2
Flyaway U/C										
Weapon System Proc U/C										

**Description:**

The 25mm M793 Target Practice - Traced Cartridge is a ballistically matched training round that simulates the M792 25mm High Explosive Incendiary - Traced Cartridge. The M793 supports gunnery training for the Army's Bradley Fighting Vehicles, the USMC's Light Armored Vehicles, and the Navy's MK38 Deck Gun. The M793 is a percussion primed round, packed in linked belts of 30 cartridges per PA125 Container. The M28 metal link is used to belt M793 cartridges. This item is Code A, approved for service use.

**Justification:**

This is a training unique item not used in combat. FY 2009 procurement supports annual training in accordance with the Army's procurement goals.

TYPE CLASSIFICATION DATE: 1979

<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: February 2008	
<b>AMMO Cost Elements</b>		ID CD	<b>FY 07</b>			<b>FY 08</b>			<b>FY 09</b>		
			Total Cost \$000	Qty x1000	Unit Cost \$	Total Cost \$000	Qty x1000	Unit Cost \$	Total Cost \$000	Qty x1000	Unit Cost \$
<b>HARDWARE</b>											
LOAD, ASSEMBLE, PACK			9766	678	14.41	12246	866	14.13	4830	267	18.06
CONTAINER PA125			902	23	39.74	1410	30	47.51	483	9	52.72
<b>H/W SUBTOTAL</b>			<b>10668</b>			<b>13656</b>			<b>5313</b>		
<b>PRODUCTION SUPPORT COSTS</b>											
PRODUCTION ENGINEERING			1014			723			914		
QUALITY ASSURANCE			17			16			12		
ACCEPTANCE TESTING			208								
<b>PROD SUPPORT SUBTOTAL</b>			<b>1239</b>			<b>739</b>			<b>926</b>		
<b>Total:</b>			<b>11907</b>		<b>17.56</b>	<b>14395</b>		<b>16.62</b>	<b>6239</b>		<b>23.37</b>

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

Date:  
February 2008

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 \$000	Specs Avail Now?	Date Revsn Avail	RFP Issue Date
<b>LOAD, ASSEMBLE, PACK</b>										
FY 2007	GENERAL DYNAMICS ORD & TAC SYS MARION, IL	C/FP	ROCK ISLAND, IL	Mar 07	Mar 08	213	14.41			
FY 2007	ALLIANT TECH SYS, INC MESA, AZ	C/FP	ROCK ISLAND, IL	Mar 07	Mar 08	465	14.41			
FY 2008	GENERAL DYNAMICS ORD & TAC SYS MARION, IL	C/OPT	ROCK ISLAND, IL	Jan 08	Jan 09	476	14.13	Y		
FY 2008	ALLIANT TECH SYS, INC MESA, AZ	C/OPT	ROCK ISLAND, IL	Jan 08	Jan 09	390	14.13	Y		
FY 2009	GENERAL DYNAMICS ORD & TAC SYS MARION, IL	C/OPT	ROCK ISLAND, IL	Jan 09	Jan 10	147	18.06	Y		
FY 2009	ALLIANT TECH SYS, INC MESA, AZ	C/OPT	ROCK ISLAND, IL	Jan 09	Jan 10	120	18.06	Y		
<b>CONTAINER PA125</b>										
FY 2007	CONCO INC LOUISVILLE, KY	C/OPT	ROCK ISLAND, IL	May 07	Aug 07	23	39.74			
FY 2008	CONCO INC LOUISVILLE, KY	C/OPT	ROCK ISLAND, IL	May 08	Aug 08	30	47.51	Y		
FY 2009	CONCO INC LOUISVILLE, KY	C/OPT	ROCK ISLAND, IL	May 09	Aug 09	9	52.72	Y		

REMARKS: FY 2007 - FY 2009 LOAD, ASSEMBLE, PACK (LAP) IS AN AVERAGE UNIT COST FOR MULTIPLE PRODUCERS.

<b>FY 08 / 09 BUDGET PRODUCTION SCHEDULE</b>	P-1 ITEM NOMENCLATURE CTG 25MM TP-T M793 (E08203)	Date: February 2008
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COST ELEMENTS						Fiscal Year 08												Fiscal Year 09												Later
M F R	FY	S E R V	PROC QTY x1Mil	ACCEP PRIOR TO 1 OCT	BAL DUE AS OF 1 OCT	Calendar Year 08												Calendar Year 09												
						O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	

LOAD, ASSEMBLE, PACK																																					
1	FY 07	A	0.42	0.31	0.11																															0.00	
1	FY 07	A	0.21	0.00	0.21																															0.00	
2	FY 07	A	0.46	0.00	0.46																															0.00	
1	FY 08	A	0.48	0.00	0.48																																0.12
2	FY 08	A	0.39	0.00	0.39																																0.09
1	FY 09	A	0.15	0.00	0.15																																0.15
2	FY 09	A	0.12	0.00	0.12																																0.12
1	FY 08	MC	0.17	0.00	0.17																																0.04
2	FY 08	MC	0.14	0.00	0.14																																0.03
1	FY 07	NS	0.24	0.00	0.24																																0.00
Total			2.78	0.31	2.47																															0.55	
						O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P								

M F R	Name - Location	PRODUCTION RATES			Reached D+	MFR	ADMIN LEAD TIME		MFR After 1 Oct	TOTAL After 1 Oct	REMARKS LAP LINES SHARED FOR EACH CONTRACTOR WITH OTHER 25MM ITEMS. MULTIPLE YEAR CONTRACT WILL DELIVER QUARTERLY.
		MIN	1-8-5	MAX			Prior 1 Oct	After 1 Oct			
1	GENERAL DYNAMICS ORD & TAC SYS, MARION, IL		0.20	0.52		1	6	6	12	18	
						2	4	4	12	16	
2	ALLIANT TECH SYS, INC, MESA, AZ		0.20	0.52		1	6	6	12	18	
						2	4	4	12	16	

COST ELEMENTS						Fiscal Year 10													Fiscal Year 11													Later
M F R	FY	S E R V	PROC QTY x1Mil	ACCEP PRIOR TO 1 OCT	BAL DUE AS OF 1 OCT	Calendar Year 10													Calendar Year 11													
						O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P			

LOAD, ASSEMBLE, PACK																												
1	FY 07 P	A	0.42	0.42																								0.00
1	FY 07	A	0.21	0.21																								0.00
2	FY 07	A	0.46	0.46																								0.00
1	FY 08	A	0.48	0.36	0.12	0.12																						0.00
2	FY 08	A	0.39	0.30	0.09	0.09																						0.00
1	FY 09	A	0.15	0.00	0.15						0.04															0.03	0.00	
2	FY 09	A	0.12	0.00	0.12						0.03															0.03	0.00	
1	FY 08	MC	0.17	0.13	0.04	0.04																						0.00
2	FY 08	MC	0.14	0.11	0.03	0.03																						0.00
1	FY 07	NS	0.24	0.24																								0.00
<b>Total</b>			2.78	2.23	0.55	0.28					0.07																0.06	
					O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P

M F R	Name - Location	PRODUCTION RATES			Reached D+	MFR	ADMIN LEAD TIME		MFR After 1 Oct	TOTAL After 1 Oct	REMARKS LAP LINES SHARED FOR EACH CONTRACTOR WITH OTHER 25MM ITEMS. MULTIPLE YEAR CONTRACT WILL DELIVER QUARTERLY.
		MIN	1-8-5	MAX			Prior 1 Oct	After 1 Oct			
				1			2				
1	GENERAL DYNAMICS ORD & TAC SYS, MARION, IL		0.20	0.52		1	Initial	6	6	12	18
						1	Reorder	4	4	12	16
2	ALLIANT TECH SYS, INC, MESA, AZ		0.20	0.52		2	Initial	6	6	12	18
						2	Reorder	4	4	12	16
							Initial				
							Reorder				
							Initial				
							Reorder				
							Initial				
							Reorder				

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

Date: February 2008

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

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

Program Elements for Code B Items:

Code:  
A

Other Related Program Elements:

	Prior Years	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013	To Complete	Total Prog
Proc Qty	22630	440	671	294	554	538	529	484		26140
Gross Cost	389.3	10.1	14.7	8.5	14.9	14.9	15.0	14.0		481.4
Less PY Adv Proc										
Plus CY Adv Proc										
Net Proc P1	389.3	10.1	14.7	8.5	14.9	14.9	15.0	14.0		481.4
Initial Spares										
Total Proc Cost	389.3	10.1	14.7	8.5	14.9	14.9	15.0	14.0		481.4
Flyaway U/C										
Weapon System Proc U/C										

**Description:**

The 25mm M910 Target Practice Discarding Sabot-Traced Cartridge is a ballistically matched training round that simulates the M791 25mm Armor Piercing Discarding Sabot-Traced Cartridge. The M910 is also used as a training counterpart for the M919 25mm Armor Piercing Discarding Sabot Fin Stabilized-Traced Cartridge, though the M910 cannot simulate the range of the M919. The M910 supports gunnery training for the Army's Bradley Fighting Vehicles and USMC's Light Armored Vehicles. The M910 is a percussion primed round, packed in linked belts of 30 cartridges per PA125 Container. The M28 metal link is used to belt M910 Cartridges. This item is Code A, approved for service use.

**Justification:**

This is a training unique item not used in combat. FY 2009 procurement supports annual training in accordance with the Army's procurement goals.

TYPE CLASSIFICATION DATE: 1988

<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: February 2008	
<b>AMMO Cost Elements</b>		ID CD	<b>FY 07</b>			<b>FY 08</b>			<b>FY 09</b>		
			Total Cost \$000	Qty x1000	Unit Cost \$	Total Cost \$000	Qty x1000	Unit Cost \$	Total Cost \$000	Qty x1000	Unit Cost \$
<b>HARDWARE</b>											
LOAD, ASSEMBLE, PACK			8562	440	19.45	12749	671	19.00	7086	294	24.14
CONTAINER PA125			650	15	44.06	1092	23	47.51	530	10	52.72
<b>H/W SUBTOTAL</b>			<b>9212</b>			<b>13841</b>			<b>7616</b>		
<b>PRODUCTION SUPPORT COSTS</b>											
PRODUCTION ENGINEERING			804			782			877		
QUALITY ASSURANCE			39			27			10		
ACCEPTANCE TESTING			87								
<b>PROD SUPPORT SUBTOTAL</b>			<b>930</b>			<b>809</b>			<b>887</b>		
<b>Total:</b>			<b>10142</b>		<b>23.05</b>	<b>14650</b>		<b>21.83</b>	<b>8503</b>		<b>28.92</b>



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

Date:  
February 2008

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 \$000	Specs Avail Now?	Date Revsn Avail	RFP Issue Date
<b>LOAD, ASSEMBLE, PACK</b>										
FY 2007	GENERAL DYNAMICS MARION, IL	C/FP	ROCK ISLAND, IL	Mar 07	Jun 08	180	19.45			
FY 2007	ALLIANT TECH SYS, INC MESA, AZ	C/FP	ROCK ISLAND, IL	Mar 07	Mar 08	260	19.45			
FY 2008	GENERAL DYNAMICS MARION, IL	C/OPT	ROCK ISLAND, IL	Jan 08	Jan 09	369	19.00	Y		
FY 2008	ALLIANT TECH SYS, INC MESA, AZ	C/OPT	ROCK ISLAND, IL	Jan 08	Jan 09	302	19.00	Y		
FY 2009	GENERAL DYNAMICS MARION, IL	C/OPT	ROCK ISLAND, IL	Jan 09	Jan 10	162	24.14	Y		
FY 2009	ALLIANT TECH SYS, INC MESA, AZ	C/OPT	ROCK ISLAND, IL	Jan 09	Jan 10	132	24.14	Y		
<b>CONTAINER PA125</b>										
FY 2007	CONCO INC LOUISVILLE, KY	C/OPT	ROCK ISLAND, IL	May 07	Aug 07	15	44.06			
FY 2008	CONCO INC LOUISVILLE, KY	C/OPT	ROCK ISLAND, IL	May 08	Aug 08	23	47.51	Y		
FY 2009	CONCO INC LOUISVILLE, KY	C/OPT	ROCK ISLAND, IL	May 09	Aug 09	10	52.72	Y		

REMARKS: FY 2007 - FY 2009 LOAD, ASSEMBLE, PACK (LAP) IS AN AVERAGE UNIT COST FOR MULTIPLE PRODUCERS.

This procurement is part of a five year multiple year contract.

<b>FY 08 / 09 BUDGET PRODUCTION SCHEDULE</b>	P-1 ITEM NOMENCLATURE CTG 25MM TPDS-T M910 (E08204)	Date: February 2008
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COST ELEMENTS						Fiscal Year 08												Fiscal Year 09												Later
M F R	FY	S E R V	PROC QTY x1000	ACCEP PRIOR TO 1 OCT	BAL DUE AS OF 1 OCT	Calendar Year 08												Calendar Year 09												
						O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	

LOAD, ASSEMBLE, PACK																													
2	FY 07 P	A	366.00	316.00	50.00																							0.00	
1	FY 07 P	A	302.00	166.00	136.00																							0.00	
1	FY 07	A	180.00	0.00	180.00																							0.00	
2	FY 07	A	260.00	0.00	260.00																							0.00	
1	FY 08	A	369.00	0.00	369.00																					92.00	92.00	92.00	
2	FY 08	A	302.00	0.00	302.00																					75.00	75.00	75.00	
2	FY 09	A	132.00	0.00	132.00																							132.00	
1	FY 09	A	161.00	0.00	161.00																							161.00	
1	FY 08	MC	184.00	0.00	184.00																					46.00	46.00	46.00	
2	FY 08	MC	151.00	0.00	151.00																					38.00	38.00	37.00	
1	FY 09	MC	39.00	0.00	39.00																							39.00	
						O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P

M F R	Name - Location	PRODUCTION RATES			Reached D+	MFR	ADMIN LEAD TIME		MFR After 1 Oct	TOTAL After 1 Oct	REMARKS LAP LINES FOR EACH CONTRACTOR ARE SHARED WITH OTHER 25MM ITEMS.  MULTIPLE YEAR CONTRACT WILL BE DELIVERED QUARTERLY.
		MIN	1-8-5	MAX			Prior 1 Oct	After 1 Oct			
1	GENERAL DYNAMICS, MARION, IL		330.00	940.00		1	Initial	6	6	12	18
							Reorder	4	4	12	16
2	ALLIANT TECH SYS, INC, MESA, AZ		260.00	750.00		2	Initial	6	6	12	18
							Reorder	4	4	12	16
							Initial				
							Reorder				
							Initial				
							Reorder				
							Initial				
							Reorder				



<b>FY 10 / 11 BUDGET PRODUCTION SCHEDULE</b>	P-1 ITEM NOMENCLATURE CTG 25MM TPDS-T M910 (E08204)	Date: February 2008
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COST ELEMENTS						Fiscal Year 10													Fiscal Year 11													Later
M F R	FY	S E R V	PROC QTY x1000	ACCEP PRIOR TO 1 OCT	BAL DUE AS OF 1 OCT	Calendar Year 10													Calendar Year 11													
						O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P			

LOAD, ASSEMBLE, PACK																															
2	FY 07 P	A	366.00	366.00																								0.00			
1	FY 07 P	A	302.00	302.00																								0.00			
1	FY 07	A	180.00	180.00																								0.00			
2	FY 07	A	260.00	260.00																								0.00			
1	FY 08	A	369.00	277.00	92.00	92.00																						0.00			
2	FY 08	A	302.00	227.00	75.00	75.00																						0.00			
2	FY 09	A	132.00	0.00	132.00					33.00																			0.00		
1	FY 09	A	161.00	0.00	161.00					41.00																			0.00		
1	FY 08	MC	184.00	138.00	46.00	46.00																						0.00			
2	FY 08	MC	151.00	114.00	37.00	37.00																						0.00			
1	FY 09	MC	39.00	0.00	39.00					39.00																			0.00		
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	

M F R	Name - Location	PRODUCTION RATES			Reached D+	MFR	ADMIN LEAD TIME		MFR After 1 Oct	TOTAL After 1 Oct	REMARKS LAP LINES FOR EACH CONTRACTOR ARE SHARED WITH OTHER 25MM ITEMS.	
		MIN	1-8-5	MAX			Prior 1 Oct	After 1 Oct				
1	GENERAL DYNAMICS, MARION, IL		330.00	940.00		1	Initial	6	6	12	18	MULTIPLE YEAR CONTRACT WILL BE DELIVERED QUARTERLY.
							Reorder	4	4	12	16	
2	ALLIANT TECH SYS, INC, MESA, AZ		260.00	750.00		2	Initial	6	6	12	18	
							Reorder	4	4	12	16	
							Initial					
							Reorder					
							Initial					
							Reorder					



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

Date: February 2008

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 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013	To Complete	Total Prog
Proc Qty										
Gross Cost	455.2	66.6	61.6	79.1	23.8	23.1	23.5	23.8		756.6
Less PY Adv Proc										
Plus CY Adv Proc										
Net Proc P1	455.2	66.6	61.6	79.1	23.8	23.1	23.5	23.8		756.6
Initial Spares										
Total Proc Cost	455.2	66.6	61.6	79.1	23.8	23.1	23.5	23.8		756.6
Flyaway U/C										
Weapon System Proc U/C										

**Description:**

This budget line includes 30MM ALL TYPES.

FY 2007 funding total includes \$48.5 million received in GWOT supplemental.

FY 2008 funding total includes \$40 million received in The Consolidated Appropriations Act, 2008 (P.L. 110-161).

FY 2008 funding totals do not include \$0 previously requested for current FY 2008 GWOT requirements.

Actual amount for FY07 reflect changes since the publication of the P-1.

<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: February 2008	
<b>AMMO Cost Elements</b>		ID CD	<b>FY 07</b>			<b>FY 08</b>			<b>FY 09</b>		
			Total Cost	Qty	Unit Cost	Total Cost	Qty	Unit Cost	Total Cost	Qty	Unit Cost
			\$000	x1000	\$	\$000	x1000	\$	\$000	x1000	\$
E09900 CTG 30MM HEDP M789			47049	647	72.72	45562	595	76.57	62623	739	84.74
E10100 CTG 30MM TP M788			19504	1134	17.20	16050	873	18.38	16443	802	20.50
<b>Total:</b>			<b>66553</b>			<b>61612</b>			<b>79066</b>		

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

Date: February 2008

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

P-1 Item Nomenclature  
CTG 30MM HEDP M789 (E09900)

Program Elements for Code B Items:

Code:  
A

Other Related Program Elements:

	Prior Years	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013	To Complete	Total Prog
Proc Qty	5256	647	595	739	63	50	49	48		7447
Gross Cost	261.1	47.0	45.6	62.6	6.6	5.6	5.6	5.6		439.8
Less PY Adv Proc										
Plus CY Adv Proc										
Net Proc P1	261.1	47.0	45.6	62.6	6.6	5.6	5.6	5.6		439.8
Initial Spares										
Total Proc Cost	261.1	47.0	45.6	62.6	6.6	5.6	5.6	5.6		439.8
Flyaway U/C										
Weapon System Proc U/C										

**Description:**

The 30mm M789 Lightweight High Explosive-Dual Purpose Cartridge is the only qualified combat cartridge for use in the Apache Helicopter's M230 Chain Gun. The M789 Cartridge consists of a charged projectile containing a shaped charge liner, a M759 point-detonating fuze, aluminum cartridge case, and a PA520 electric primer. The shaped charge allows the M789 to defeat light armor, and the steel projectile body provides an anti-personnel capability. M789 Cartridges are packed in bulk ammunition strips (BAS), 110 cartridges per M592 Container. This item is Code A, approved for service use.

**Justification:**

This is a training standard item. FY 2009 procurement supports annual training in accordance with the Army's procurement goals.

TYPE CLASSIFICATION DATE: 1962



Exhibit P-5, Weapon AMMO Cost Analysis		Appropriation/Budget Activity/Serial No: Procurement of Ammunition, Army / 1 / Ammunition			P-1 Line Item Nomenclature: CTG 30MM HEDP M789 (E09900)			Weapon System Type:		Date: February 2008	
AMMO Cost Elements		ID CD	FY 07			FY 08			FY 09		
			Total Cost \$000	Qty x1000	Unit Cost \$	Total Cost \$000	Qty x1000	Unit Cost \$	Total Cost \$000	Qty x1000	Unit Cost \$
<b>HARDWARE</b>											
LOAD, ASSEMBLE, PACK			45360	647	70.10	44472	595	74.79	61403	739	83.08
*PBXN 5 TYPE II CLASS 3			917	43	21.29	1872	40	47.28			
*PBXN-5 TYPE I CLASS 3			22		57.40	21		57.71	24		54.51
*RDX TYPE II CLASS 7			3		10.80	3		10.37			
<b>H/W SUBTOTAL</b>			<b>46302</b>			<b>46368</b>			<b>61427</b>		
<b>PRODUCTION SUPPORT COSTS</b>											
PRODUCTION ENGINEERING			984			1057			1195		
QUALITY ASSURANCE			37			33			25		
ACCEPTANCE TESTING			32								
<b>PROD SUPPORT SUBTOTAL</b>			<b>1053</b>			<b>1090</b>			<b>1220</b>		
<b>NON-RECURRING COSTS</b>											
GOVERNMENT FURNISHED MATERIAL			-942			-1896			-24		
MALFUNCTION INVESTIGATION			636								
<b>NON-RECURRING SUBTOTAL</b>			<b>-306</b>			<b>-1896</b>			<b>-24</b>		
<b>Total:</b>			<b>47049</b>		<b>72.72</b>	<b>45562</b>		<b>76.57</b>	<b>62623</b>		<b>84.74</b>

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

Date:  
February 2008

Appropriation/Budget Activity/Serial No: Procurement of Ammunition, Army/ 1/ Ammunition	Weapon System Type:	P-1 Line Item Nomenclature: CTG 30MM HEDP M789 (E09900)								
WBS Cost Elements:	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY x1000	Unit Cost \$000	Specs Avail Now?	Date Revsn Avail	RFP Issue Date
<b>LOAD, ASSEMBLE, PACK</b>										
FY 2007	ALLIANT TECHSYSTEMS INC MESA, AZ	C/OPT	ROCK ISLAND, IL	Mar 07	Oct 07	647	70.10			
FY 2008	ALLIANT TECHSYSTEMS INC MESA, AZ	C/OPT	ROCK ISLAND, IL	Jan 08	Jan 09	595	74.79	Y		
FY 2009	ALLIANT TECHSYSTEMS INC MESA, AZ	C/FP	ROCK ISLAND, IL	May 09	May 10	589	83.08	Y		
FY 2009	GENERAL DYNAMICS ORD & TAC MARION, IL	C/FP	ROCK ISLAND, IL	May 09	May 10	150	83.08	Y		
<b>*PBXN 5 TYPE II CLASS 3</b>										
FY 2007	STOCK ISSUE	N/A	N/A			43				
FY 2008	STOCK ISSUE	N/A	N/A			40				
<b>*PBXN-5 TYPE I CLASS 3</b>										
FY 2007	STOCK ISSUE	N/A	N/A							
FY 2008	STOCK ISSUE	N/A	N/A							
FY 2009	STOCK ISSUE	N/A	N/A							
<b>*RDX TYPE II CLASS 7</b>										
FY 2007	STOCK ISSUE	N/A	N/A							
FY 2008	STOCK ISSUE	N/A	N/A							

REMARKS: \* GOVERNMENT FURNISHED MATERIAL

FY 2009 LOAD, ASSEMBLE, PACK (LAP) IS AN AVERAGE UNIT COST FOR MULTIPLE PRODUCERS.

**FY 08 / 09 BUDGET PRODUCTION SCHEDULE**

P-1 ITEM NOMENCLATURE  
CTG 30MM HEDP M789 (E09900)

Date:  
February 2008

COST ELEMENTS						Fiscal Year 08												Fiscal Year 09												Later
MFR	FY	S E R V	PROC QTY x1000	ACCEP PRIOR TO 1 OCT	BAL DUE AS OF 1 OCT	Calendar Year 08												Calendar Year 09												
						O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	
LOAD, ASSEMBLE, PACK																														
1	FY 07	A	286	223	63	6	5	52																				0		
1	FY 07	A	647	0	647	71	79	75	50	50	50	50	50	50	50	22												0		
1	FY 08	A	595	0	595				A											75	75	75	75	75	75	75	70	0		
2	FY 09	A	150	0	150																		A					150		
1	FY 09	A	589	0	589																		A					589		
Total																												739		

MFR	Name - Location	PRODUCTION RATES			Reached D+	MFR	ADMIN LEAD TIME		MFR After 1 Oct	TOTAL After 1 Oct	REMARKS
		MIN	1-8-5	MAX			Prior 1 Oct	After 1 Oct			
1	ALLIANT TECHSYSTEMS INC, MESA, AZ		30	75	1	Initial	6	8	12	20	
						Reorder	6	4	12	16	
2	GENERAL DYNAMICS ORD & TAC, MARION, IL		30	75	2	Initial	6	8	13	21	
						Reorder	6	4	12	16	
						Initial					
						Reorder					
						Initial					
						Reorder					

<b>FY 10 / 11 BUDGET PRODUCTION SCHEDULE</b>	P-1 ITEM NOMENCLATURE CTG 30MM HEDP M789 (E09900)	Date: February 2008
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COST ELEMENTS				Fiscal Year 10														Fiscal Year 11												Later							
M F R	FY	S E R V	PROC QTY  x1000	ACCEP PRIOR TO 1 OCT	BAL DUE AS OF 1 OCT	Calendar Year 10														Calendar Year 11																	
						O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P								
<b>LOAD, ASSEMBLE, PACK</b>																																					
	1	FY 07	A	286	286																															0	
	1	FY 07	A	647	647																															0	
	1	FY 08	A	595	595																															0	
	2	FY 09	A	150	0	150											10	20	20	30	30	40													0		
	1	FY 09	A	589	0	589										75	75	75	75	75	75	75	75	64											0		
				2267	1528	739																															
						O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P								

M F R	Name - Location	PRODUCTION RATES			Reached D+	MFR	ADMIN LEAD TIME		MFR After 1 Oct	TOTAL After 1 Oct	REMARKS	
		MIN	1-8-5	MAX			Prior 1 Oct	After 1 Oct				
	1	ALLIANT TECHSYSTEMS INC, MESA, AZ	30	75		1	Initial	6	8	12	20	
							Reorder	6	4	12	16	
	2	GENERAL DYNAMICS ORD & TAC, MARION, IL	30	75		2	Initial	6	8	13	21	
							Reorder	6	4	12	16	
							Initial					
							Reorder					
							Initial					
							Reorder					
							Initial					
							Reorder					

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

Date: February 2008

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

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

Program Elements for Code B Items:

Code:  
A

Other Related Program Elements:

	Prior Years	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013	To Complete	Total Prog
Proc Qty	15403	1134	873	802	812	807	808	807		21446
Gross Cost	191.7	19.5	16.1	16.4	17.2	17.5	17.9	18.2		314.6
Less PY Adv Proc										
Plus CY Adv Proc										
Net Proc P1	191.7	19.5	16.1	16.4	17.2	17.5	17.9	18.2		314.6
Initial Spares										
Total Proc Cost	191.7	19.5	16.1	16.4	17.2	17.5	17.9	18.2		314.6
Flyaway U/C										
Weapon System Proc U/C										

**Description:**

The M788 Lightweight 30mm Target Practice cartridge is the only qualified training cartridge for use in the Apache Helicopter's M230 Chain Gun. The M788 utilizes a PA520 electric primer and a lightweight aluminum cartridge case. M788 Cartridges are packed in bulk ammunition strips (BAS), 110 cartridges per M592 Container. This item is Code A, approved for service use.

**Justification:**

This is a training unique item not used in combat. FY 2009 procurement supports annual training in accordance with the Army's procurement goals.

TYPE CLASSIFICATION DATE: 1982

<b>AMMO Cost Elements</b>		ID CD	<b>FY 07</b>			<b>FY 08</b>			<b>FY 09</b>		
			Total Cost	Qty	Unit Cost	Total Cost	Qty	Unit Cost	Total Cost	Qty	Unit Cost
			\$000	x1000	\$	\$000	x1000	\$	\$000	x1000	\$
<b>HARDWARE</b>											
COMPLETE ROUND											
			17567	1134	15.49	14764	873	16.91	14895	802	18.58
<b>H/W SUBTOTAL</b>			<b>17567</b>			<b>14764</b>			<b>14895</b>		
<b>PRODUCTION SUPPORT COSTS</b>											
PRODUCTION ENGINEERING											
			1686			1257			1523		
QUALITY ASSURANCE											
			28			29			25		
ACCEPTANCE TESTING											
			223								
<b>PROD SUPPORT SUBTOTAL</b>			<b>1937</b>			<b>1286</b>			<b>1548</b>		
<b>Total:</b>			<b>19504</b>		<b>17.20</b>	<b>16050</b>		<b>18.38</b>	<b>16443</b>		<b>20.50</b>

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

Date:  
February 2008

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 \$000	Specs Avail Now?	Date Revsn Avail	RFP Issue Date
<b>COMPLETE ROUND</b>										
FY 2007	GENERAL DYNAMICS ORD& TAC SYS MARION, IL	C/FP	ROCK ISLAND, IL	Mar 07	Jan 08	624	15.49			
FY 2007	ALLIANT TECHSYSTEMS INC MESA, AZ	C/FP	ROCK ISLAND, IL	Mar 07	Jan 08	510	15.49			
FY 2008	GENERAL DYNAMICS ORD& TAC SYS MARION, IL	C/OPT	ROCK ISLAND, IL	Jan 08	Jan 09	480	16.91	Y		
FY 2008	ALLIANT TECHSYSTEMS INC MESA, AZ	C/OPT	ROCK ISLAND, IL	Jan 08	Jan 09	393	16.91	Y		
FY 2009	GENERAL DYNAMICS ORD& TAC SYS MARION, IL	C/OPT	ROCK ISLAND, IL	Jan 09	Jan 10	441	18.58	Y		
FY 2009	ALLIANT TECHSYSTEMS INC MESA, AZ	C/OPT	ROCK ISLAND, IL	Jan 09	Jan 10	361	18.58	Y		

REMARKS: FY 2007 - FY 2009 COMPLETE ROUND IS AN AVERAGE UNIT COST FOR MULTIPLE PRODUCERS.

<b>FY 08 / 09 BUDGET PRODUCTION SCHEDULE</b>	P-1 ITEM NOMENCLATURE CTG 30MM TP M788 (E10100)	Date: February 2008
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COST ELEMENTS						Fiscal Year 08													Fiscal Year 09													Later
M F R	FY	S E R V	PROC QTY x1Mil	ACCEP PRIOR TO 1 OCT	BAL DUE AS OF 1 OCT	Calendar Year 08													Calendar Year 09													
						O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P			

COMPLETE ROUND																																				
1	FY 07 P	A	0.01	0.00	0.01				0.01																											0.00
1	FY 07	A	0.62	0.00	0.62				0.08	0.10	0.10	0.10	0.10	0.08	0.06																					0.00
2	FY 07	A	0.51	0.00	0.51				0.10	0.10	0.08	0.08	0.08	0.07																						0.00
1	FY 08	A	0.48	0.00	0.48				A												0.10	0.10	0.10	0.10	0.08										0.00	
2	FY 08	A	0.39	0.00	0.39				A												0.10	0.10	0.10	0.09											0.00	
2	FY 09	A	0.36	0.00	0.36																A															0.36
1	FY 09	A	0.44	0.00	0.44																A															0.44
Total			2.81		2.81				0.19	0.20	0.18	0.18	0.18	0.15	0.06						0.20	0.20	0.20	0.19	0.08									0.80		
						O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P							

M F R	Name - Location	PRODUCTION RATES			Reached D+	MFR	ADMIN LEAD TIME		MFR After 1 Oct	TOTAL After 1 Oct	REMARKS LOAD, ASSEMBLE AND PACK (LAP) LINE SHARED WITH OTHER 30MM ITEMS.
		MIN	1-8-5	MAX			Prior 1 Oct	After 1 Oct			
1	GENERAL DYNAMICS ORD& TAC SYS, MARION, IL	0.05	0.12	0.30		1	Initial	6	6	12	18
						1	Reorder	6	4	12	16
2	ALLIANT TECHSYSTEMS INC, MESA, AZ	0.05	0.12	0.30		2	Initial	6	6	12	18
						2	Reorder	6	4	12	16
							Initial				
							Reorder				
							Initial				
							Reorder				
							Initial				
							Reorder				



<b>FY 10 / 11 BUDGET PRODUCTION SCHEDULE</b>	P-1 ITEM NOMENCLATURE CTG 30MM TP M788 (E10100)	Date: February 2008
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COST ELEMENTS						Fiscal Year 10													Fiscal Year 11													Later
M F R	FY	S E R V	PROC QTY x1Mil	ACCEP PRIOR TO 1 OCT	BAL DUE AS OF 1 OCT	Calendar Year 10													Calendar Year 11													
						O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P			

COMPLETE ROUND																																																					
1	FY 07 P	A	0.01	0.01																													0.00																				
1	FY 07	A	0.62	0.62																													0.00																				
2	FY 07	A	0.51	0.51																													0.00																				
1	FY 08	A	0.48	0.48																													0.00																				
2	FY 08	A	0.39	0.39																													0.00																				
2	FY 09	A	0.36	0.00	0.36				0.10	0.10	0.10	0.06																					0.00																				
1	FY 09	A	0.44	0.00	0.44				0.10	0.10	0.10	0.08	0.06																				0.00																				
Total			2.81	2.01	0.80				0.20	0.20	0.20	0.14	0.06																																								
<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td style="text-align: center;">O C T</td> <td style="text-align: center;">N O V</td> <td style="text-align: center;">D E C</td> <td style="text-align: center;">J A N</td> <td style="text-align: center;">F E B</td> <td style="text-align: center;">M A R</td> <td style="text-align: center;">A P R</td> <td style="text-align: center;">M A Y</td> <td style="text-align: center;">J U N</td> <td style="text-align: center;">J U L</td> <td style="text-align: center;">A U G</td> <td style="text-align: center;">S E P</td> <td style="text-align: center;">O C T</td> <td style="text-align: center;">N O V</td> <td style="text-align: center;">D E C</td> <td style="text-align: center;">J A N</td> <td style="text-align: center;">F E B</td> <td style="text-align: center;">M A R</td> <td style="text-align: center;">A P R</td> <td style="text-align: center;">M A Y</td> <td style="text-align: center;">J U N</td> <td style="text-align: center;">J U L</td> <td style="text-align: center;">A U G</td> <td style="text-align: center;">S E P</td> </tr> </table>																														O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P
O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P																														

M F R	Name - Location	PRODUCTION RATES			Reached D+	MFR	ADMIN LEAD TIME		MFR After 1 Oct	TOTAL After 1 Oct	REMARKS LOAD, ASSEMBLE AND PACK (LAP) LINE SHARED WITH OTHER 30MM ITEMS.
		MIN	1-8-5	MAX			Prior 1 Oct	After 1 Oct			
1	GENERAL DYNAMICS ORD& TAC SYS, MARION, IL	0.05	0.12	0.30		1	Initial	6	6	12	18
		Reorder	6	4	12	16					
2	ALLIANT TECHSYSTEMS INC, MESA, AZ	0.05	0.12	0.30		2	Initial	6	6	12	18
		Reorder	6	4	12	16					
							Initial				
							Reorder				
							Initial				
							Reorder				
							Initial				
							Reorder				

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

Date: February 2008

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 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013	To Complete	Total Prog
Proc Qty										
Gross Cost	1851.5	294.1	272.8	293.3	294.8	217.7	264.8	291.7		3780.6
Less PY Adv Proc										
Plus CY Adv Proc										
Net Proc P1	1851.5	294.1	272.8	293.3	294.8	217.7	264.8	291.7		3780.6
Initial Spares										
Total Proc Cost	1851.5	294.1	272.8	293.3	294.8	217.7	264.8	291.7		3780.6
Flyaway U/C										
Weapon System Proc U/C										

**Description:**

This budget line includes 40MM ALL TYPES.

FY 2007 funding total includes \$165.2 million received in GWOT supplemental.

FY 2008 funding total includes \$65.7 million received in The Consolidated Appropriations Act, 2008 (P.L. 110-161).

FY 2008 funding totals do not include \$9.3 million previously requested for current FY 2008 GWOT 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: CTG, 40MM, ALL TYPES (ER8001)			Weapon System Type:		Date: February 2008		
<b>AMMO Cost Elements</b>		ID CD	<b>FY 07</b>			<b>FY 08</b>			<b>FY 09</b>		
			Total Cost	Qty	Unit Cost	Total Cost	Qty	Unit Cost	Total Cost	Qty	Unit Cost
			\$000	x1000	\$	\$000	x1000	\$	\$000	x1000	\$
E11800 CTG 40MM HEDP M430 F/MK19 MG			66680	2028	32.88	54501	1532	35.58	51980	1457	35.68
E12000 CTG 40MM WHITE STAR PARA M583			7959	150	53.06						
E12100 CTG 40MM White Star Cluster M585			9954	192	51.84	4000	87	45.97			
E12601 CTG 40MM HEDP M433			11723	219	53.53	1490	29	51.38	1500	19	78.95
E71100 CTG 40MM TP M918 LINKED F/MK 19MG			89563	3396	26.37	14980	539	27.79	20888	731	28.59
E71103 CTG 40MM MK281			41062	1496	27.45	20000	738	27.10			
E74200 CTG 40MM PRACTICE M781			9837	1803	5.46	8155	1650	4.94	3493	364	9.60
E74315 CTG 40MM PRACTICE M918/M385A1			52700	2417	21.80	167173	6979	23.95	214961	8911	24.13
E12502 CTG 40MM PRACTICE M385A1			2111	104	20.30						
E84500 CTG 40MM M992 Illum IR			2500	34	73.53	2000	22	90.91			
F00900 CTG 40MM Canister M1001						497	6	82.83	500	6	83.33
<b>Total:</b>			<b>294089</b>			<b>272796</b>			<b>293322</b>		

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

Date: February 2008

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

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

Program Elements for Code B Items:

Code:  
A

Other Related Program Elements:

	Prior Years	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013	To Complete	Total Prog
Proc Qty	46518	2028	1532	1457	482	312	309	301		52939
Gross Cost	394.8	66.7	54.5	52.0	19.1	12.1	12.2	12.3		623.7
Less PY Adv Proc										
Plus CY Adv Proc										
Net Proc P1	394.8	66.7	54.5	52.0	19.1	12.1	12.2	12.3		623.7
Initial Spares										
Total Proc Cost	394.8	66.7	54.5	52.0	19.1	12.1	12.2	12.3		623.7
Flyaway U/C										
Weapon System Proc U/C										

**Description:**

The 40MM M430A1 is a High-Explosive Dual-Purpose cartridge (HEDP), and is fired from a MK19 Machine Gun at a max range of 2200 meters and is linked into a 32- or 48-round belt. The cartridge is a fixed round of ammunition with an internally embossed steel projectile body containing a high explosive (Comp A5) and copper, shaped-charged liner. The Point Initiating, Base Detonating (PIBD) M549A1 fuze with spitback, secondary charge, is threaded into the body to form the projectile. It is capable of penetrating three inches of steel armor and inflicting personnel casualties in the target area. This item is Code A, approved for service use.

**Justification:**

This is a training standard item used in both training and combat. FY 2009 procurement supports annual training and builds a war reserve inventory in accordance with the Army's procurement goals.

TYPE CLASSIFICATION DATE: 1971

<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 HEDP M430 F/MK19 MG (E11800)			Weapon System Type:		Date: February 2008		
<b>AMMO Cost Elements</b>		ID CD	<b>FY 07</b>			<b>FY 08</b>			<b>FY 09</b>		
			Total Cost \$000	Qty x1000	Unit Cost \$	Total Cost \$000	Qty x1000	Unit Cost \$	Total Cost \$000	Qty x1000	Unit Cost \$
<b>HARDWARE</b>											
COMPLETE ROUND			64681	2028	31.89	53346	1532	34.82	48614	1457	33.37
<b>H/W SUBTOTAL</b>			<b>64681</b>			<b>53346</b>			<b>48614</b>		
PRODUCTION ENGINEERING			445			400			1056		
QUALITY ASSURANCE			21			5			10		
<b>PROD SUPPORT SUBTOTAL</b>			<b>466</b>			<b>405</b>			<b>1066</b>		
TESTING			74								
PRODUCT IMPROVEMENTS			1459			750			2300		
<b>NON-RECURRING SUBTOTAL</b>			<b>1533</b>			<b>750</b>			<b>2300</b>		
<b>Total:</b>			<b>66680</b>		<b>32.88</b>	<b>54501</b>		<b>35.58</b>	<b>51980</b>		<b>35.68</b>

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

Date:  
February 2008

Appropriation/Budget Activity/Serial No: Procurement of Ammunition, Army/ 1/ Ammunition		Weapon System Type:	P-1 Line Item Nomenclature: CTG 40MM HEDP M430 F/MK19 MG (E11800)							
WBS Cost Elements:	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY x1000	Unit Cost \$000	Specs Avail Now?	Date Revsn Avail	RFP Issue Date
<b>COMPLETE ROUND</b>										
FY 2007	AMTEC CORP JANESVILLE, WI	C/OPTION	ROCK ISLAND, IL	Mar 07	Aug 08	1115	31.89			
FY 2007	DSE INC, (BALIMOY) TAMPA, FL	C/OPTION	ROCK ISLAND, IL	Mar 07	Aug 08	913	31.89			
FY 2008	AMTEC CORP JANESVILLE, WI	C/OPTION	ROCK ISLAND, IL	Mar 08	Aug 09	843	34.83	Y		
FY 2008	DSE INC, (BALIMOY) TAMPA, FL	C/OPTION	ROCK ISLAND, IL	Mar 08	Aug 09	689	34.83	Y		
FY 2009	AMTEC CORP JANESVILLE, WI	C/OPTION	ROCK ISLAND, IL	Mar 09	Aug 10	801	33.37	Y		
FY 2009	DSE INC, (BALIMOY) TAMPA, FL	C/OPTION	ROCK ISLAND, IL	Mar 09	Aug 10	656	33.37	Y		

REMARKS: FY 2007 - FY 2009 COMPLETE ROUND IS AN AVERAGE UNIT COST FOR MULTIPLE PRODUCERS.

<b>FY 08 / 09 BUDGET PRODUCTION SCHEDULE</b>	P-1 ITEM NOMENCLATURE CTG 40MM HEDP M430 F/MK19 MG (E11800)	Date: February 2008
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COST ELEMENTS						Fiscal Year 08													Fiscal Year 09													Later
M F R	FY	S E R V	PROC QTY x1000	ACCEP PRIOR TO 1 OCT	BAL DUE AS OF 1 OCT	Calendar Year 08													Calendar Year 09													
						O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P			
COMPLETE ROUND																																
2	FY 07	A	1.12	0.00	1.12											0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.10	0.10	0.10	0.10			0.00
1	FY 07	A	0.91	0.00	0.91											0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.07	0.07	0.07	0.07	0.07			0.00	
2	FY 08	A	0.84	0.00	0.84																								0.07	0.07	0.70	
1	FY 08	A	0.69	0.00	0.69																								0.06	0.06	0.57	
2	FY 09	A	0.80	0.00	0.80																										0.80	
1	FY 09	A	0.66	0.00	0.66																										0.66	
2	FY 08	AF	0.06	0.00	0.06																									0.06	0.00	
1	FY 08	AF	0.05	0.00	0.05																									0.05	0.00	
2	FY 09	AF	0.01	0.00	0.01																										0.01	
1	FY 09	AF	0.01	0.00	0.01																										0.01	
2	FY 07	MC	0.51	0.00	0.51											0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.05	0.04	0.05	0.05			0.00	
1	FY 07	MC	0.42	0.00	0.42											0.03	0.03	0.03	0.03	0.04	0.04	0.04	0.03	0.04	0.03	0.04	0.04				0.00	
2	FY 08	MC	0.30	0.00	0.30																								0.03	0.03	0.24	
1	FY 08	MC	0.25	0.00	0.25																								0.02	0.02	0.21	
2	FY 09	MC	0.56	0.00	0.56																										0.56	

M F R	Name - Location	PRODUCTION RATES			Reached D+	MFR	ADMIN LEAD TIME		MFR After 1 Oct	TOTAL After 1 Oct	REMARKS				
		MIN	1-8-5	MAX			1	Initial				6	6	19	25
1	DSE INC, (BALIMOY), TAMPA, FL	269.00	320.00	500.00		1	Initial	6	6	19	25				
							Reorder	6	6	17	23				
2	AMTEC CORP, JANESVILLE, WI	269.00	320.00	500.00		2	Initial	6	6	19	25				
							Reorder	6	6	17	23				
							Initial								
							Reorder								
							Initial								
							Reorder								
							Initial								
							Reorder								





<b>FY 10 / 11 BUDGET PRODUCTION SCHEDULE</b>														P-1 ITEM NOMENCLATURE CTG 40MM HEDP M430 F/MK19 MG (E11800)										Date: February 2008	
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COST ELEMENTS					Fiscal Year 10														Fiscal Year 11														Later	
M F R	FY	S E R V	PROC QTY x1000	ACCEP PRIOR TO 1 OCT	BAL DUE AS OF 1 OCT	Calendar Year 10														Calendar Year 11														
						O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P					

COMPLETE ROUND																															
2	FY 07	A	1.12	1.12																											0.00
1	FY 07	A	0.91	0.91																											0.00
2	FY 08	A	0.84	0.14	0.70	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07																	0.00
1	FY 08	A	0.69	0.12	0.57	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.05	0.05	0.05																0.00
2	FY 09	A	0.80	0.00	0.80										0.06	0.06	0.06	0.06	0.06	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.00	
1	FY 09	A	0.66	0.00	0.66										0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.00		
2	FY 08	AF	0.06	0.06																											0.00
1	FY 08	AF	0.05	0.05																											0.00
2	FY 09	AF	0.01	0.00	0.01										0.01																0.00
1	FY 09	AF	0.01	0.00	0.01										0.01																0.00
2	FY 07	MC	0.51	0.51																											0.00
1	FY 07	MC	0.42	0.42																											0.00
2	FY 08	MC	0.30	0.06	0.24	0.03	0.03	0.03	0.03	0.02	0.02	0.02	0.02	0.02	0.02															0.00	
1	FY 08	MC	0.25	0.04	0.21	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.03																0.00	
2	FY 09	MC	0.56	0.00	0.56										0.04	0.04	0.04	0.04	0.04	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.00		
						O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P		

M F R	Name - Location	PRODUCTION RATES			Reached D+	MFR	ADMIN LEAD TIME		MFR After 1 Oct	TOTAL After 1 Oct	REMARKS		
		MIN	1-8-5	MAX			1	Initial				6	6
1	DSE INC, (BALIMOY), TAMPA, FL	269.00	320.00	500.00		1	Initial	6	6	19	25		
							Reorder	6	6	17	23		
2	AMTEC CORP, JANESVILLE, WI	269.00	320.00	500.00		2	Initial	6	6	19	25		
							Reorder	6	6	17	23		
							Initial						
							Reorder						
							Initial						
							Reorder						
							Initial						
							Reorder						

**FY 10 / 11 BUDGET PRODUCTION SCHEDULE**

P-1 ITEM NOMENCLATURE  
CTG 40MM HEDP M430 F/MK19 MG (E11800)

Date: February 2008

COST ELEMENTS						Fiscal Year 10													Fiscal Year 11													Later
MFR	FY	SERV	PROC QTY x1000	ACCEP PRIOR TO 1 OCT	BAL DUE AS OF 1 OCT	Calendar Year 10													Calendar Year 11													
						OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP			
1	FY 09	MC	0.46	0.00	0.46											0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.03	0.03			0.00	
2	FY 07	SOF	0.02	0.02																											0.00	
1	FY 07	SOF	0.02	0.02																											0.00	
2	FY 09	SOF	0.05	0.00	0.05											0.05															0.00	
1	FY 09	SOF	0.04	0.00	0.04											0.04															0.00	
Total																																
						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	ADMIN LEAD TIME		MFR After 1 Oct	TOTAL After 1 Oct	REMARKS
		MIN	1-8-5	MAX			Prior 1 Oct	After 1 Oct			
		1	DSE INC, (BALIMOY), TAMPA, FL	269.00			320.00	500.00	1	Initial	
						Reorder	6	6	17	23	
2	AMTEC CORP, JANESVILLE, WI	269.00	320.00	500.00	2	Initial	6	6	19	25	
						Reorder	6	6	17	23	
						Initial					
						Reorder					
						Initial					
						Reorder					
						Initial					
						Reorder					

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

Date: February 2008

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

P-1 Item Nomenclature  
CTG 40MM WHITE STAR PARA M583 (E12000)

Program Elements for Code B Items:

Code:  
A

Other Related Program Elements:

	Prior Years	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013	To Complete	Total Prog
Proc Qty	4770	150								4920
Gross Cost	50.7	8.0								58.7
Less PY Adv Proc										
Plus CY Adv Proc										
Net Proc P1	50.7	8.0								58.7
Initial Spares										
Total Proc Cost	50.7	8.0								58.7
Flyaway U/C										
Weapon System Proc U/C										

**Description:**

The 40mm M583A1 is an illumination and signaling round designed for less weight and bulk and greater accuracy than comparable hand-held signals. The cartridge is a fixed round of ammunition consisting of a projectile assembly and cartridge case assembly, fired from M79, M203 and XM230 single shot launchers. This item is Code A, approved for service use.

**Justification:**

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

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 40MM WHITE STAR PARA M583 (E12000)			Weapon System Type:		Date: February 2008	
<b>AMMO Cost Elements</b>		ID CD	<b>FY 07</b>			<b>FY 08</b>			<b>FY 09</b>		
			Total Cost	Qty	Unit Cost	Total Cost	Qty	Unit Cost	Total Cost	Qty	Unit Cost
			\$000	x1000	\$	\$000	x1000	\$	\$000	x1000	\$
<b>HARDWARE</b>											
COMPLETE ROUND											
			6280	150	41.74						
<b>H/W SUBTOTAL</b>			<b>6280</b>								
<b>PRODUCTION SUPPORT COSTS</b>											
PRODUCTION ENGINEERING											
			837								
QUALITY ASSURANCE											
			19								
<b>PROD SUPPORT SUBTOTAL</b>			<b>856</b>								
<b>NON-RECURRING COSTS</b>											
PRODUCT IMPROVEMENT											
			823								
<b>NON-RECURRING SUBTOTAL</b>			<b>823</b>								
<b>Total:</b>			<b>7959</b>		<b>53.06</b>						

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

Date:  
February 2008

Appropriation/Budget Activity/Serial No: Procurement of Ammunition, Army/ 1/ Ammunition		Weapon System Type:	P-1 Line Item Nomenclature: CTG 40MM WHITE STAR PARA M583 (E12000)							
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>COMPLETE ROUND</b>										
FY 2007	AMTEC CORP JANESVILLE, WI	C/OPTION	ROCK ISLAND, IL	Mar 07	Jan 08	83	41.74			
FY 2007	DSE INC, (BALIMOY) TAMPA, FL	C/OPTION	ROCK ISLAND, IL	Mar 07	Jan 08	67	41.74			

REMARKS: FY 2007 COMPLETE ROUND IS AN AVERAGE UNIT COST FOR MULTIPLE PRODUCERS.

<b>FY 08 / 09 BUDGET PRODUCTION SCHEDULE</b>	P-1 ITEM NOMENCLATURE CTG 40MM WHITE STAR PARA M583 (E12000)	Date: February 2008
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COST ELEMENTS						Fiscal Year 08													Fiscal Year 09													Later
M F R	FY	S E R V	PROC QTY x1000	ACCEP PRIOR TO 1 OCT	BAL DUE AS OF 1 OCT	Calendar Year 08													Calendar Year 09													
						O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P			

<b>COMPLETE ROUND</b>																																				
1	FY 07	A	67.70	0.00	67.70				15.00	15.00	15.00	15.00	7.70																						0.00	
2	FY 07	A	82.80	0.00	82.80				10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	2.80																			0.00
2	FY 08	AF	0.88	0.00	0.88																0.88															0.00
1	FY 08	AF	0.73	0.00	0.73																0.73															0.00
2	FY 07	MC	25.90	0.00	25.90				5.00	5.00	5.00	5.00	5.90																						0.00	
1	FY 07	MC	22.10	0.00	22.10				5.00	5.00	5.20	5.50	1.40																						0.00	
2	FY 08	MC	105.00	0.00	105.00																12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	9.00			0.00		
1	FY 08	MC	85.90	0.00	85.90																9.00	9.00	9.00	9.00	9.90	10.00	10.00	10.00	10.00					0.00		
1	FY 09	MC	7.38	0.00	7.38																															7.38
2	FY 09	MC	9.02	0.00	9.02																															9.02
1	FY 08	NS	6.78	0.00	6.78																4.00	2.78													0.00	
2	FY 08	NS	8.23	0.00	8.23																4.00	4.23													0.00	
1	FY 09	NS	6.78	0.00	6.78																															6.78
2	FY 09	NS	8.23	0.00	8.23																															8.23
1	FY 09	SOF	9.02	0.00	9.02																															9.02
						O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P							

M F R	Name - Location	PRODUCTION RATES			Reached D+	MFR	ADMIN LEAD TIME		MFR After 1 Oct	TOTAL After 1 Oct	REMARKS	
		MIN	1-8-5	MAX			Prior 1 Oct	After 1 Oct				
1	DSE INC, (BALIMOY), TAMPA, FL	2.00	9.00	21.00		1	Initial	6	6	13	19	REVISED ACQUISITION STRATEGY WILL SHORTEN LEADTIMES. THE NEW ACQUISITION STRATEGY IS A RESULT OF SYSTEMS CONTRACTING VERSUS PREVIOUS COMPONENT BREAKOUT BUYS. ACCELERATED SCHEDULES ARE BEING DEVELOPED.
							Reorder	6	6	10	16	
2	AMTEC CORP, JANESVILLE, WI	2.00	9.00	21.00		2	Initial	6	6	13	19	
							Reorder	6	6	10	16	
							Initial					
							Reorder					
							Initial					
							Reorder					



<b>FY 10 / 11 BUDGET PRODUCTION SCHEDULE</b>	P-1 ITEM NOMENCLATURE CTG 40MM WHITE STAR PARA M583 (E12000)	Date: February 2008
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COST ELEMENTS						Fiscal Year 10													Fiscal Year 11													Later
M F R	FY	S E R V	PROC QTY x1000	ACCEP PRIOR TO 1 OCT	BAL DUE AS OF 1 OCT	Calendar Year 10													Calendar Year 11													
						O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P			

COMPLETE ROUND																																		
1	FY 07	A	67.70	67.70																														0.00
2	FY 07	A	82.80	82.80																														0.00
2	FY 08	AF	0.88	0.88																														0.00
1	FY 08	AF	0.73	0.73																														0.00
2	FY 07	MC	25.90	25.90																														0.00
1	FY 07	MC	22.10	22.10																														0.00
2	FY 08	MC	105.00	105.00																														0.00
1	FY 08	MC	85.90	85.90																														0.00
1	FY 09	MC	7.38	0.00	7.38				2.00	2.00	2.00	1.38																						0.00
2	FY 09	MC	9.02	0.00	9.02				2.00	2.00	2.00	2.00	1.02																					0.00
1	FY 08	NS	6.78	6.78																														0.00
2	FY 08	NS	8.23	8.23																														0.00
1	FY 09	NS	6.78	0.00	6.78				4.00	2.78																								0.00
2	FY 09	NS	8.23	0.00	8.23				4.00	4.23																								0.00
1	FY 09	SOF	9.02	0.00	9.02				5.00	4.02																								0.00
						O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P					

M F R	Name - Location	PRODUCTION RATES			Reached D+	MFR	ADMIN LEAD TIME		MFR After 1 Oct	TOTAL After 1 Oct	REMARKS	
		MIN	1-8-5	MAX			Prior 1 Oct	After 1 Oct				
1	DSE INC, (BALIMOY), TAMPA, FL	2.00	9.00	21.00		1	Initial	6	6	13	19	REVISED ACQUISITION STRATEGY WILL SHORTEN LEADTIMES. THE NEW ACQUISITION STRATEGY IS A RESULT OF SYSTEMS CONTRACTING VERSUS PREVIOUS COMPONENT BREAKOUT BUYS. ACCELERATED SCHEDULES ARE BEING DEVELOPED.
							Reorder	6	6	10	16	
2	AMTEC CORP, JANESVILLE, WI	2.00	9.00	21.00		2	Initial	6	6	13	19	
							Reorder	6	6	10	16	
							Initial					
							Reorder					
							Initial					
							Reorder					
							Initial					
							Reorder					





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

Date: February 2008

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

P-1 Item Nomenclature  
CTG 40MM WHITE STAR CLUSTER M585 (E12100)

Program Elements for Code B Items:

Code:  
A

Other Related Program Elements:

	Prior Years	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013	To Complete	Total Prog
Proc Qty	179	192	87							458
Gross Cost	10.3	10.0	4.0							24.2
Less PY Adv Proc										
Plus CY Adv Proc										
Net Proc P1	10.3	10.0	4.0							24.2
Initial Spares										
Total Proc Cost	10.3	10.0	4.0							24.2
Flyaway U/C										
Weapon System Proc U/C										

**Description:**

The 40mm M585 is a signaling round designed for less weight and bulk and greater accuracy than comparable hand-held signals. The cartridge is a fixed round of ammunition consisting of a projectile assembly and cartridge case assembly, fired from M79, M203 and XM230 single shot launchers. This item is Code A, approved for service use.

**Justification:**

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

<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 WHITE STAR CLUSTER M585 (E12100)			Weapon System Type:		Date: February 2008	
<b>AMMO Cost Elements</b>		ID CD	<b>FY 07</b>			<b>FY 08</b>			<b>FY 09</b>		
			Total Cost	Qty	Unit Cost	Total Cost	Qty	Unit Cost	Total Cost	Qty	Unit Cost
			\$000	x1000	\$	\$000	x1000	\$	\$000	x1000	\$
<b>AMMUNITION HARDWARE</b>											
Complete Round			9667	192	50.40	3674	87	42.14			
<b>SubTotal AMMO Hardware</b>			<b>9667</b>			<b>3674</b>					
<b>Production Support Costs</b>											
Production Engineering			283			314					
Quality Assurance			3			12					
<b>SubTotal Prod. Support</b>			<b>286</b>			<b>326</b>					
<b>Nonrecurring</b>											
Program Support			1								
<b>SubTotal Nonrecurring</b>			<b>1</b>								
<b>Total:</b>			<b>9954</b>		<b>51.84</b>	<b>4000</b>		<b>45.97</b>			

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

Date:  
February 2008

Appropriation/Budget Activity/Serial No: Procurement of Ammunition, Army/ 1/ Ammunition		Weapon System Type:	P-1 Line Item Nomenclature: CTG 40MM WHITE STAR CLUSTER M585 (E12100)							
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 2007	TO BE SELECTED	C/FP	ROCK ISLAND, IL	Mar 08	Apr 09	192	50.40			
FY 2008	TO BE SELECTED	C/FP	ROCK ISLAND, IL	Mar 09	Jan 10	87	42.14	Y		

REMARKS:



<b>FY 10 / 11 BUDGET PRODUCTION SCHEDULE</b>	P-1 ITEM NOMENCLATURE CTG 40MM WHITE STAR CLUSTER M585 (E12100)	Date: February 2008
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COST ELEMENTS						Fiscal Year 10												Fiscal Year 11												Later
M F R	FY	S E R V	PROC QTY x1000	ACCEP PRIOR TO 1 OCT	BAL DUE AS OF 1 OCT	Calendar Year 10												Calendar Year 11												
						O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	
Complete Round																														
1	FY 07	A	192	96	96	17	17	17	15	15	15																	0		
1	FY 08	A	87	0	87				20	20	20	20	7															0		
1	FY 07	SOF	10	10																								0		
Total																														
						O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	

M F R	Name - Location	PRODUCTION RATES			Reached D+	MFR	ADMIN LEAD TIME		MFR After 1 Oct	TOTAL After 1 Oct	REMARKS	
		MIN	1-8-5	MAX			1	Initial				Reorder
1	TO BE SELECTED	1	15	30		1	Initial	6	6	13	19	
							Reorder	6	6	10	16	
							Initial					
							Reorder					
							Initial					
							Reorder					
							Initial					
							Reorder					
							Initial					
							Reorder					

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

Date: February 2008

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

P-1 Item Nomenclature  
CTG 40MM HEDP M433 (E12601)

Program Elements for Code B Items:

Code:  
A

Other Related Program Elements:

	Prior Years	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013	To Complete	Total Prog
Proc Qty	156004	219	29	19	34	20	19	10		156354
Gross Cost	467.9	11.7	1.5	1.5	2.5	1.5	1.5	1.5		489.6
Less PY Adv Proc										
Plus CY Adv Proc										
Net Proc P1	467.9	11.7	1.5	1.5	2.5	1.5	1.5	1.5		489.6
Initial Spares										
Total Proc Cost	467.9	11.7	1.5	1.5	2.5	1.5	1.5	1.5		489.6
Flyaway U/C										
Weapon System Proc U/C										

**Description:**

The 40mm M433 is a high explosive dual purpose impact type round designed to penetrate lightly armored targets and perform an anti-personnel mission. Upon impact, the detonator triggers the spit-back shaped charge and produces a jet blast that detonates the high explosive bursting charge. Detonation of the bursting charge forms an armor-piercing jet of molten metal and fragmentation of the projectile body. This item is Code A, approved for service use.

**Justification:**

This is a training standard item used in both training and combat. FY 2009 procurement supports training and builds a war reserve in accordance with the Army's procurement goals.

TYPE CLASSIFICATION DATE: 1971

<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 HEDP M433 (E12601)			Weapon System Type:		Date: February 2008	
<b>AMMO Cost Elements</b>		ID CD	<b>FY 07</b>			<b>FY 08</b>			<b>FY 09</b>		
			Total Cost \$000	Qty x1000	Unit Cost \$	Total Cost \$000	Qty x1000	Unit Cost \$	Total Cost \$000	Qty x1000	Unit Cost \$
<b>HARDWARE</b>											
COMPLETE ROUND			10000	219	45.72	1415	29	48.43	932	19	49.76
<b>H/W SUBTOTAL</b>			<b>10000</b>			<b>1415</b>			<b>932</b>		
<b>PRODUCTION SUPPORT COSTS</b>											
PRODUCTION ENGINEERING			214			62			315		
QUALITY ASSURANCE			9			13			3		
<b>PROD SUPPORT SUBTOTAL</b>			<b>223</b>			<b>75</b>			<b>318</b>		
<b>NON-RECURRING COSTS</b>											
PRODUCT IMPROVEMENT			1500						250		
<b>NON-RECURRING SUBTOTAL</b>			<b>1500</b>						<b>250</b>		
<b>Total:</b>			<b>11723</b>		<b>53.53</b>	<b>1490</b>		<b>51.38</b>	<b>1500</b>		<b>78.95</b>



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

Date:  
February 2008

Appropriation/Budget Activity/Serial No: Procurement of Ammunition, Army/ 1/ Ammunition		Weapon System Type:	P-1 Line Item Nomenclature: CTG 40MM HEDP M433 (E12601)							
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>COMPLETE ROUND</b>										
FY 2007	AMTEC CORP JANESVILLE, WI	C/OPTION	ROCK ISLAND, IL	Mar 07	Aug 08	120	45.72			
FY 2007	DSE INC, (BALIMOY) TAMPA, FL	C/OPTION	ROCK ISLAND, IL	Mar 07	Aug 08	99	45.72			
FY 2008	AMTEC CORP JANESVILLE, WI	C/OPTION	ROCK ISLAND, IL	Mar 08	Aug 09	16	48.43	Y		
FY 2008	DSE INC, (BALIMOY) TAMPA, FL	C/OPTION	ROCK ISLAND, IL	Mar 08	Aug 09	13	48.43	Y		
FY 2009	AMTEC CORP JANESVILLE, WI	C/OPTION	ROCK ISLAND, IL	Mar 09	Aug 10	10	49.76	Y		
FY 2009	DSE INC, (BALIMOY) TAMPA, FL	C/OPTION	ROCK ISLAND, IL	Mar 09	Aug 10	9	49.76	Y		

REMARKS: FY 2007 - FY 2009 IS AN AVERAGE UNIT COST FOR MULTIPLE PRODUCERS.

<b>FY 08 / 09 BUDGET PRODUCTION SCHEDULE</b>	P-1 ITEM NOMENCLATURE CTG 40MM HEDP M433 (E12601)	Date: February 2008
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COST ELEMENTS						Fiscal Year 08												Fiscal Year 09												Later
M F R	FY	S E R V	PROC QTY x1000	ACCEP PRIOR TO 1 OCT	BAL DUE AS OF 1 OCT	Calendar Year 08												Calendar Year 09												
						O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	
COMPLETE ROUND																														
1	FY 07	A	120	0	120											10	10	10	10	10	10	10	10	10	10	10	10	10	0	
2	FY 07	A	98	0	98											8	8	8	8	8	8	8	8	8	8	8	8	9	9	0
1	FY 08	A	16	0	16																							1	1	14
2	FY 08	A	13	0	13																							1	1	11
1	FY 09	A	10	0	10																									10
2	FY 09	A	8	0	8																									8
1	FY 07	MC	110	0	110											8	8	8	9	9	9	9	10	10	10	10	10		0	
2	FY 07	MC	91	0	91											7	7	7	7	7	7	8	8	8	8	8	8	8		0
1	FY 08	SOF	22	0	22																								22	0
2	FY 08	SOF	18	0	18																								18	0
Total			506		506											33	33	33	34	34	35	35	36	36	36	37	37	42	2	43
						O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	

M F R	Name - Location	PRODUCTION RATES			Reached D+	MFR	ADMIN LEAD TIME		MFR After 1 Oct	TOTAL After 1 Oct	REMARKS
		MIN	1-8-5	MAX			Prior 1 Oct	After 1 Oct			
		1	AMTEC CORP, JANESVILLE, WI	200			274	685	1	Initial	
						Reorder	6	6	17	23	
2	DSE INC, (BALIMOY), TAMPA, FL	200	274	685	2	Initial	6	6	19	25	
						Reorder	6	6	17	23	
						Initial					
						Reorder					
						Initial					
						Reorder					
						Initial					
						Reorder					

<b>FY 10 / 11 BUDGET PRODUCTION SCHEDULE</b>	P-1 ITEM NOMENCLATURE CTG 40MM HEDP M433 (E12601)	Date: February 2008
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COST ELEMENTS						Fiscal Year 10												Fiscal Year 11												Later
M F R	FY	S E R V	PROC QTY x1000	ACCEP PRIOR TO 1 OCT	BAL DUE AS OF 1 OCT	Calendar Year 10												Calendar Year 11												
						O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	

COMPLETE ROUND																																			
1	FY 07	A	120	120																															0
2	FY 07	A	98	98																															0
1	FY 08	A	16	2	14	1	1	1	1	1	1	2	2	2	2																			0	
2	FY 08	A	13	2	11	1	1	1	1	1	2	1	1	1	1																			0	
1	FY 09	A	10	0	10										1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0		
2	FY 09	A	8	0	8										1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0			
1	FY 07	MC	110	110																														0	
2	FY 07	MC	91	91																														0	
1	FY 08	SOF	22	22																														0	
2	FY 08	SOF	18	18																														0	
Total			506	463	43	2	2	2	2	2	3	3	3	3	3	2	2	2	2	2	2	2	2	2	2	2	2	2	2	1	1				
						O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P						

M F R	Name - Location	PRODUCTION RATES			Reached D+	MFR	ADMIN LEAD TIME		MFR After 1 Oct	TOTAL After 1 Oct	REMARKS	
		MIN	1-8-5	MAX			1	2				
												Prior 1 Oct
1	AMTEC CORP, JANESVILLE, WI	200	274	685		1	Initial	6	6	19	25	
							Reorder	6	6	17	23	
2	DSE INC, (BALIMOY), TAMPA, FL	200	274	685		2	Initial	6	6	19	25	
							Reorder	6	6	17	23	
							Initial					
							Reorder					
							Initial					
							Reorder					
							Initial					
							Reorder					

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

Date: February 2008

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

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

Program Elements for Code B Items:

Code:  
A

Other Related Program Elements:

	Prior Years	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013	To Complete	Total Prog
Proc Qty	39920	3396	539	731	717	580	655	662		47200
Gross Cost	753.0	89.6	15.0	20.9	21.0	17.5	20.0	20.6		957.5
Less PY Adv Proc										
Plus CY Adv Proc										
Net Proc P1	753.0	89.6	15.0	20.9	21.0	17.5	20.0	20.6		957.5
Initial Spares										
Total Proc Cost	753.0	89.6	15.0	20.9	21.0	17.5	20.0	20.6		957.5
Flyaway U/C										
Weapon System Proc U/C										

**Description:**

The 40mm Target Practice (TP) cartridge for the MK19 Machine Gun is a high velocity training projectile with realistic signature effects providing sufficient flash, smoke, and sound upon impact to be seen/heard out to 1200-meters. 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 2009 procurement supports annual 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

<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: February 2008	
<b>AMMO Cost Elements</b>		ID CD	<b>FY 07</b>			<b>FY 08</b>			<b>FY 09</b>		
			Total Cost \$000	Qty x1000	Unit Cost \$	Total Cost \$000	Qty x1000	Unit Cost \$	Total Cost \$000	Qty x1000	Unit Cost \$
<b>HARDWARE</b>											
LOAD, ASSEMBLE, PACK			40233	3396	11.85	6257	539	11.61	9760	731	13.36
PROJECTILE ASSEMBLY			42545	3498	12.16	7228	555	13.02	9760	753	12.97
<b>H/W SUBTOTAL</b>			<b>82778</b>			<b>13485</b>			<b>19520</b>		
<b>PRODUCTION SUPPORT COSTS</b>											
PRODUCTION ENGINEERING			3398			490			1359		
QUALITY ASSURANCE			22			5			9		
<b>PROD SUPPORT SUBTOTAL</b>			<b>3420</b>			<b>495</b>			<b>1368</b>		
<b>NON-RECURRING COSTS</b>											
PROGRAM SUPPORT			1000								
PRODUCT IMPROVEMENT			2365			1000					
<b>NON-RECURRING SUBTOTAL</b>			<b>3365</b>			<b>1000</b>					
<b>Total:</b>			<b>89563</b>		<b>26.37</b>	<b>14980</b>		<b>27.79</b>	<b>20888</b>		<b>28.59</b>

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

Date:  
February 2008

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 \$000	Specs Avail Now?	Date Revsn Avail	RFP Issue Date
<b>LOAD, ASSEMBLE, PACK</b>										
FY 2007	AMTEC CORP JANESVILLE, WI	C/OPTION	ROCK ISLAND, IL	Mar 07	Aug 08	1868	11.85			
FY 2007	DSE INC, (BALIMOY) TAMPA, FL	C/OPTION	ROCK ISLAND, IL	Mar 07	Aug 08	1528	11.85			
FY 2008	AMTEC CORP JANESVILLE, WI	C/OPTION	ROCK ISLAND, IL	Mar 08	Aug 09	296	11.61	Y		
FY 2008	DSE INC, (BALIMOY) TAMPA, FL	C/OPTION	ROCK ISLAND, IL	Mar 08	Aug 09	243	11.61	Y		
FY 2009	AMTEC CORP JANESVILLE, WI	C/OPTION	ROCK ISLAND, IL	Mar 09	Aug 10	402	13.36	Y		
FY 2009	DSE INC, (BALIMOY) TAMPA, FL	C/OPTION	ROCK ISLAND, IL	Mar 09	Aug 10	329	13.36	Y		
<b>PROJECTILE ASSEMBLY</b>										
FY 2007	JKS INDUSTRIES INC MULBERRY, FL	C/OPTION	ROCK ISLAND, IL	Mar 07	Jun 08	1924	12.16			
FY 2007	ELITE CNC MACHINING INC. LARGO, FL	C/OPTION	ROCK ISLAND, IL	Mar 07	Jun 08	1574	12.16			
FY 2008	JKS INDUSTRIES INC MULBERRY, FL	C/OPTION	ROCK ISLAND, IL	Mar 08	Jun 09	305	13.02	Y		
FY 2008	ELITE CNC MACHINING INC. LARGO, FL	C/OPTION	ROCK ISLAND, IL	Mar 08	Jun 09	250	13.02	Y		
FY 2009	JKS INDUSTRIES INC MULBERRY, FL	C/OPTION	ROCK ISLAND, IL	Mar 09	Jun 10	414	12.97	Y		
FY 2009	ELITE CNC MACHINING INC. LARGO, FL	C/OPTION	ROCK ISLAND, IL	Mar 09	Jun 10	339	12.97	Y		

REMARKS: FY 2007 - FY 2009 LOAD, ASSEMBLE, PACK (LAP) AND PROJECTILE ASSEMBLY ARE AVERAGE UNIT COSTS FOR MULTIPLE PRODUCERS.

**FY 08 / 09 BUDGET PRODUCTION SCHEDULE**

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

Date:  
February 2008

COST ELEMENTS						Fiscal Year 08														Fiscal Year 09														Later
MFR	FY	S E R V	PROC QTY x1Mil	ACCEP PRIOR TO 1 OCT	BAL DUE AS OF 1 OCT	Calendar Year 08														Calendar Year 09														
						O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P					
LOAD, ASSEMBLE, PACK																																		
1	FY 07	A	1.87	0.00	1.87											0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.11			0.00		
2	FY 07	A	1.53	0.00	1.53											0.11	0.11	0.15	0.15	0.15	0.15	0.15	0.15	0.12	0.11	0.11	0.11	0.11			0.00			
1	FY 08	A	0.30	0.00	0.30																								0.02	0.02	0.26			
2	FY 08	A	0.24	0.00	0.24																								0.02	0.02	0.20			
1	FY 09	A	0.40	0.00	0.40																										0.40			
2	FY 09	A	0.33	0.00	0.33																										0.33			
1	FY 07	AF	0.02	0.00	0.02											0.02															0.00			
2	FY 07	AF	0.02	0.00	0.02											0.02															0.00			
1	FY 08	AF	0.10	0.00	0.10																									0.10	0.00			
2	FY 08	AF	0.08	0.00	0.08																									0.08	0.00			
1	FY 09	AF	0.05	0.00	0.05																										0.05			
2	FY 09	AF	0.04	0.00	0.04																										0.04			
1	FY 07	SOF	0.04	0.00	0.04											0.04															0.00			
2	FY 07	SOF	0.04	0.00	0.04											0.04															0.00			
1	FY 09	SOF	0.04	0.00	0.04																										0.04			

MFR	Name - Location	PRODUCTION RATES			Reached D+	MFR	ADMIN LEAD TIME		MFR After 1 Oct	TOTAL After 1 Oct	REMARKS	
		MIN	1-8-5	MAX			Prior 1 Oct	After 1 Oct				
1	AMTEC CORP, JANESVILLE, WI		320.00	500.00		1	Initial	6	6	19	25	
							Reorder	6	6	17	23	
2	DSE INC, (BALIMOY), TAMPA, FL		320.00	500.00		2	Initial	6	6	19	25	
							Reorder	6	6	17	23	
							Initial					
							Reorder					
							Initial					
							Reorder					
							Initial					
							Reorder					





<b>FY 10 / 11 BUDGET PRODUCTION SCHEDULE</b>	P-1 ITEM NOMENCLATURE CTG 40MM TP M918 LINKED F/MK19 MG (E71100)	Date: February 2008
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COST ELEMENTS						Fiscal Year 10													Fiscal Year 11													Later
M F R	FY	S E R V	PROC QTY x1Mil	ACCEP PRIOR TO 1 OCT	BAL DUE AS OF 1 OCT	Calendar Year 10													Calendar Year 11													
						O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P			

LOAD, ASSEMBLE, PACK																																			
1	FY 07	A	1.87	1.87																															0.00
2	FY 07	A	1.53	1.53																															0.00
1	FY 08	A	0.30	0.04	0.26	0.02	0.02	0.02	0.02	0.03	0.03	0.03	0.03	0.03																				0.00	
2	FY 08	A	0.24	0.04	0.20	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02																				0.00	
1	FY 09	A	0.40	0.00	0.40										0.15	0.15	0.10																	0.00	
2	FY 09	A	0.33	0.00	0.33										0.15	0.18																		0.00	
1	FY 07	AF	0.02	0.02																														0.00	
2	FY 07	AF	0.02	0.02																														0.00	
1	FY 08	AF	0.10	0.10																														0.00	
2	FY 08	AF	0.08	0.08																														0.00	
1	FY 09	AF	0.05	0.00	0.05										0.05																			0.00	
2	FY 09	AF	0.04	0.00	0.04										0.04																			0.00	
1	FY 07	SOF	0.04	0.04																														0.00	
2	FY 07	SOF	0.04	0.04																														0.00	
1	FY 09	SOF	0.04	0.00	0.04										0.04																			0.00	
						O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P						

M F R	Name - Location	PRODUCTION RATES			Reached D+	MFR	ADMIN LEAD TIME		MFR After 1 Oct	TOTAL After 1 Oct	REMARKS		
		MIN	1-8-5	MAX			1	Initial				6	6
1	AMTEC CORP, JANESVILLE, WI		320.00	500.00		1	Initial	6	6	19	25		
							Reorder	6	6	17	23		
2	DSE INC, (BALIMOY), TAMPA, FL		320.00	500.00		2	Initial	6	6	19	25		
							Reorder	6	6	17	23		
							Initial						
							Reorder						
							Initial						
							Reorder						
							Initial						
							Reorder						



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

Date: February 2008

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

P-1 Item Nomenclature  
CTG, 40MM, MK281 PRACTICE, LINKED FOR MK19 GMG (E71103)

Program Elements for Code B Items:

Code:  
A

Other Related Program Elements:

	Prior Years	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013	To Complete	Total Prog
Proc Qty	631	1496	738							2865
Gross Cost	17.3	41.1	20.0							78.4
Less PY Adv Proc										
Plus CY Adv Proc										
Net Proc P1	17.3	41.1	20.0							78.4
Initial Spares										
Total Proc Cost	17.3	41.1	20.0							78.4
Flyaway U/C										
Weapon System Proc U/C										

**Description:**

The 40mm MK281 Mod 0 Practice Cartridges are linked and are fired from the MK19 Machine Gun. The MK281 utilizes a marking dye to provide the signature upon impact that is visible in daytime at ranges exceeding 1200 meters (2000 meters is desired). The cartridge consists of a steel, high-pressure chamber that is screwed into an aluminum cartridge case by means of a connector. The threaded connector shears at a pre-determined break point to provide a consistent projectile separation yielding a tighter dispersion pattern than current 40mm high-velocity ammunition. The projectile consists of a steel body fitted with a plastic rotating band. It has a plastic blue ogive with a metal capsule containing fine orange powder and is closed with a steel disc. The plastic ogive is screwed into the steel body and sealed with an o-ring. This cartridge is required because firing the standard 40mm high-explosive dual-purpose (HEDP) M430 cartridge is prohibited at many training ranges. The MK281 allows frequent and safe MK19 Grenade Machine Gun training. 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 a depot level in accordance with the Army's procurement goals.

TYPE CLASSIFICATION DATE: 2004

Exhibit P-5, Weapon AMMO Cost Analysis	Appropriation/Budget Activity/Serial No: Procurement of Ammunition, Army / 1 / Ammunition	P-1 Line Item Nomenclature: CTG, 40MM, MK281 PRACTICE, LINKED FOR MK19 GMG (E71103)			Weapon System Type:	Date: February 2008				
AMMO Cost Elements	ID	FY 07			FY 08			FY 09		
	CD	Total Cost	Qty	Unit Cost	Total Cost	Qty	Unit Cost	Total Cost	Qty	Unit Cost
		\$000	x1000	\$	\$000	x1000	\$	\$000	x1000	\$
<b>AMMUNITION HARDWARE</b>										
Complete Round		40000	1496	25.70	19369	738	26.25			
<b>SubTotal AMMO Hardware</b>		<b>40000</b>			<b>19369</b>					
<b>Production Support Costs</b>										
Production Engineering		662			631					
<b>SubTotal Prod. Support</b>		<b>662</b>			<b>631</b>					
<b>NON-RECURRING COSTS</b>										
Product Improvements		400								
<b>NON-RECURRING SUBTOTAL</b>										
<b>Total:</b>		<b>41062</b>		<b>27.45</b>	<b>20000</b>		<b>27.10</b>			

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

Date:  
February 2008

Appropriation/Budget Activity/Serial No: Procurement of Ammunition, Army/ 1/ Ammunition		Weapon System Type:	P-1 Line Item Nomenclature: CTG, 40MM, MK281 PRACTICE, LINKED FOR MK19 GMG (E71103)							
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>Complete Round</b>										
FY 2007	Nico-Pyrotechnik Marine Corps, Quantico, VA	SS/FP	Marine Corps, Quantico VA	Aug 07	Aug 08	1496	25.70	Y		
FY 2008	Nico-Pyrotechnik Marine Corps, Quantico, VA	SS/FP	Marine Corps, Quantico VA	Jun 08	Aug 09	738	26.25	Y		

REMARKS:

**FY 08 / 09 BUDGET PRODUCTION SCHEDULE**

P-1 ITEM NOMENCLATURE  
CTG, 40MM, MK281 PRACTICE, LINKED FOR MK19 GMG (E71103)

Date: February 2008

COST ELEMENTS						Fiscal Year 08														Fiscal Year 09														Later
MFR	FY	SERV	PROC QTY x1Mil	ACCEP PRIOR TO 1 OCT	BAL DUE AS OF 1 OCT	Calendar Year 08														Calendar Year 09														
						OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP					
1	FY 07	A	1496	0	1496											85	88	106	106	108	94	112	114	172	155	172	184			0				
1	FY 08	A	738	0	738									A															62	61	615			
Total			2234		2234											85	88	106	106	108	94	112	114	172	155	172	184	62	61	615				
						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	ADMIN LEAD TIME		MFR After 1 Oct	TOTAL After 1 Oct	REMARKS	
		MIN	1-8-5	MAX			Prior 1 Oct	After 1 Oct				
		1	Initial	Reorder								
1	Nico-Pyrotechnik, Marine Corps, Quantico, VA	10	340	400		1	Initial	3	12	24	36	
							Reorder	3	9	14	23	
							Initial					
							Reorder					
							Initial					
							Reorder					
							Initial					
							Reorder					
							Initial					
							Reorder					



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

Date: February 2008

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

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

Program Elements for Code B Items:

Code:  
A

Other Related Program Elements:

	Prior Years	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013	To Complete	Total Prog
Proc Qty	42169	1803	1650	364	1881	2046	2125	2179		54217
Gross Cost	131.4	9.8	8.2	3.5	8.8	9.1	9.4	9.7		190.0
Less PY Adv Proc										
Plus CY Adv Proc										
Net Proc P1	131.4	9.8	8.2	3.5	8.8	9.1	9.4	9.7		190.0
Initial Spares										
Total Proc Cost	131.4	9.8	8.2	3.5	8.8	9.1	9.4	9.7		190.0
Flyaway U/C										
Weapon System Proc U/C										

**Description:**

The 40mm 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 2009 procurement supports annual training and builds a depot level in accordance with the Army's procurement goals.

TYPE CLASSIFICATION DATE: 1978



<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: February 2008	
<b>AMMO Cost Elements</b>		ID CD	<b>FY 07</b>			<b>FY 08</b>			<b>FY 09</b>		
			Total Cost \$000	Qty x1000	Unit Cost \$	Total Cost \$000	Qty x1000	Unit Cost \$	Total Cost \$000	Qty x1000	Unit Cost \$
<b>HARDWARE</b>											
COMPLETE ROUND			6716	1803	3.73	6611	1650	4.01	1364	364	3.75
<b>H/W SUBTOTAL</b>			<b>6716</b>			<b>6611</b>			<b>1364</b>		
<b>PRODUCTION SUPPORT COSTS</b>											
PRODUCTION ENGINEERING			721			779			865		
QUALITY ASSURANCE			12			15			14		
<b>PROD SUPPORT SUBTOTAL</b>			<b>733</b>			<b>794</b>			<b>879</b>		
<b>NON-RECURRING COSTS</b>											
PROGRAM SUPPORT			2000								
PRODUCT IMPROVEMENT			198			750			1250		
ECONOMIC PRICE ADJUSTMENT CLAIM			190								
<b>NON-RECURRING SUBTOTAL</b>			<b>2388</b>			<b>750</b>			<b>1250</b>		
<b>Total:</b>			<b>9837</b>		<b>5.46</b>	<b>8155</b>		<b>4.94</b>	<b>3493</b>		<b>9.60</b>

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

Date:  
February 2008

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 \$000	Specs Avail Now?	Date Revsn Avail	RFP Issue Date
<b>COMPLETE ROUND</b>										
FY 2007	AMTEC CORP JANESVILLE, WI	C/OPTION	ROCK ISLAND, IL	Mar 07	Jan 08	1049	3.73			
FY 2007	DSE INC, (BALIMOY) TAMPA, FL	C/OPTION	ROCK ISLAND, IL	Mar 07	Jan 08	754	3.73			
FY 2008	AMTEC CORP JANESVILLE, WI	C/OPTION	ROCK ISLAND, IL	Mar 08	Jan 09	907	4.01	Y		
FY 2008	DSE INC, (BALIMOY) TAMPA, FL	C/OPTION	ROCK ISLAND, IL	Mar 08	Jan 09	743	4.01	Y		
FY 2009	AMTEC CORP JANESVILLE, WI	C/OPTION	ROCK ISLAND, IL	Mar 09	Jan 10	200	3.75	Y		
FY 2009	DSE INC, (BALIMOY) TAMPA, FL	C/OPTION	ROCK ISLAND, IL	Mar 09	Jan 10	164	3.75	Y		

REMARKS: FY 2007 - FY 2009 COMPLETE ROUND IS AN AVERAGE UNIT COST FOR MULTIPLE PRODUCERS.

<b>FY 08 / 09 BUDGET PRODUCTION SCHEDULE</b>	P-1 ITEM NOMENCLATURE CTG 40MM PRACTICE M781 (E74200)	Date: February 2008
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COST ELEMENTS						Fiscal Year 08														Fiscal Year 09														Later
M F R	FY	S E R V	PROC QTY x1Mil	ACCEP PRIOR TO 1 OCT	BAL DUE AS OF 1 OCT	Calendar Year 08														Calendar Year 09														
						O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P					

COMPLETE ROUND																																	
1	FY 07	A	0.75	0.00	0.75				0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.05												0.00				
2	FY 07	A	1.05	0.00	1.05				0.15	0.15	0.15	0.15	0.15	0.15	0.15														0.00				
1	FY 08	A	0.74	0.00	0.74						A									0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.04		0.00				
2	FY 08	A	0.91	0.00	0.91						A									0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.11	0.00				
2	FY 09	A	0.20	0.00	0.20																	A							0.20				
1	FY 09	A	0.16	0.00	0.16																	A							0.16				
2	FY 09	AF	0.06	0.00	0.06																								0.06				
1	FY 09	AF	0.05	0.00	0.05																								0.05				
1	FY 07	MC	0.42	0.00	0.42				0.15	0.15	0.12																		0.00				
2	FY 07	MC	0.64	0.00	0.64				0.15	0.15	0.15	0.15	0.04																0.00				
1	FY 08	MC	0.50	0.00	0.50															0.15	0.15	0.15	0.05						0.00				
2	FY 08	MC	0.61	0.00	0.61															0.15	0.15	0.15	0.16						0.00				
1	FY 09	MC	1.15	0.00	1.15																								1.15				
2	FY 09	MC	1.41	0.00	1.41																								1.41				
2	FY 07	NS	0.02	0.00	0.02				0.02																				0.00				
									O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	

M F R	Name - Location	PRODUCTION RATES			Reached D+	MFR	ADMIN LEAD TIME		MFR After 1 Oct	TOTAL After 1 Oct	REMARKS		
		MIN	1-8-5	MAX			1	Initial				Prior 1 Oct	After 1 Oct
1	DSE INC, (BALIMOY), TAMPA, FL		0.23	0.46		1	Initial	6	6	13	19		
							Reorder	6	6	10	16		
2	AMTEC CORP, JANESVILLE, WI		0.23	0.46		2	Initial	6	6	13	19		
							Reorder	6	6	10	16		
							Initial						
							Reorder						
							Initial						
							Reorder						
							Initial						
							Reorder						



<b>FY 10 / 11 BUDGET PRODUCTION SCHEDULE</b>	P-1 ITEM NOMENCLATURE CTG 40MM PRACTICE M781 (E74200)	Date: February 2008
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COST ELEMENTS						Fiscal Year 10													Fiscal Year 11													Later
M F R	FY	S E R V	PROC QTY x1Mil	ACCEP PRIOR TO 1 OCT	BAL DUE AS OF 1 OCT	Calendar Year 10													Calendar Year 11													
						O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P			

COMPLETE ROUND																																	
1	FY 07	A	0.75	0.75																												0.00	
2	FY 07	A	1.05	1.05																												0.00	
1	FY 08	A	0.74	0.74																												0.00	
2	FY 08	A	0.91	0.91																												0.00	
2	FY 09	A	0.20	0.00	0.20				0.05	0.05	0.05	0.05																				0.00	
1	FY 09	A	0.16	0.00	0.16				0.08	0.08																						0.00	
2	FY 09	AF	0.06	0.00	0.06				0.06																								0.00
1	FY 09	AF	0.05	0.00	0.05				0.05																								0.00
1	FY 07	MC	0.42	0.42																													0.00
2	FY 07	MC	0.64	0.64																													0.00
1	FY 08	MC	0.50	0.50																													0.00
2	FY 08	MC	0.61	0.61																													0.00
1	FY 09	MC	1.15	0.00	1.15				0.20	0.20	0.20	0.20	0.20	0.15																		0.00	
2	FY 09	MC	1.41	0.00	1.41				0.20	0.20	0.20	0.20	0.20	0.20	0.21																		0.00
2	FY 07	NS	0.02	0.02																													0.00

O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P
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M F R	Name - Location	PRODUCTION RATES			Reached D+	MFR	ADMIN LEAD TIME		MFR After 1 Oct	TOTAL After 1 Oct	REMARKS		
		MIN	1-8-5	MAX			1	Initial				Prior 1 Oct	After 1 Oct
1	DSE INC, (BALIMOY), TAMPA, FL		0.23	0.46		1	Initial	6	6	13	19		
							Reorder	6	6	10	16		
2	AMTEC CORP, JANESVILLE, WI		0.23	0.46		2	Initial	6	6	13	19		
							Reorder	6	6	10	16		
							Initial						
							Reorder						
							Initial						
							Reorder						
							Initial						
							Reorder						



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

Date: February 2008

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

P-1 Item Nomenclature  
CTG 40MM PRAC, M918/M385A1 (E74315)

Program Elements for Code B Items:

Code:  
A

Other Related Program Elements:

	Prior Years	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013	To Complete	Total Prog
Proc Qty		2417	6979	8911	9848	7036	8631	9463		53285
Gross Cost		52.7	167.2	215.0	242.9	177.0	221.1	247.0		1322.9
Less PY Adv Proc										
Plus CY Adv Proc										
Net Proc P1		52.7	167.2	215.0	242.9	177.0	221.1	247.0		1322.9
Initial Spares										
Total Proc Cost		52.7	167.2	215.0	242.9	177.0	221.1	247.0		1322.9
Flyaway U/C										
Weapon System Proc U/C										

**Description:**

The 40mm Practice M918/M385A1 Mixed Belt 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 out to 1200 meters. In addition to providing audible/visual signature for day or night firing, the Mixed Belt 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 2009 procurement supports annual training and builds a depot level in accordance with the Army's procurement goals.

TYPE CLASSIFICATION DATE: 1985

Exhibit P-5, Weapon AMMO Cost Analysis		Appropriation/Budget Activity/Serial No: Procurement of Ammunition, Army / 1 / Ammunition			P-1 Line Item Nomenclature: CTG 40MM PRAC, M918/M385A1 (E74315)			Weapon System Type:		Date: February 2008	
AMMO Cost Elements		ID CD	FY 07			FY 08			FY 09		
			Total Cost	Qty	Unit Cost	Total Cost	Qty	Unit Cost	Total Cost	Qty	Unit Cost
			\$000	x1000	\$	\$000	x1000	\$	\$000	x1000	\$
<b>AMMUNITION HARDWARE</b>											
LOAD, ASSEMBLE, PACK			28880	2417	11.95	87952	6979	12.60	109806	8911	12.32
PROJECTILE M918			20393	1712	11.91	64360	4942	13.02	81835	6310	12.97
PROJECTILE M385			3424	781	4.38	11175	2256	4.95	13117	2880	4.55
<b>H/W SUBTOTAL</b>			<b>52697</b>			<b>163487</b>			<b>204758</b>		
<b>PRODUCTION SUPPORT COSTS</b>											
PRODUCTION ENGINEERING						3665			9697		
QUALITY ASSURANCE						21			6		
ACCEPTANCE TESTING			3								
<b>PROD SUPPORT SUBTOTAL</b>			<b>3</b>			<b>3686</b>			<b>9703</b>		
<b>NONRECURRING</b>											
PRODUCT IMPROVEMENT									500		
<b>NONRECURRING SUBTOTAL</b>									<b>500</b>		
<b>Total:</b>			<b>52700</b>		<b>21.80</b>	<b>167173</b>		<b>23.95</b>	<b>214961</b>		<b>24.13</b>



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

Date:  
February 2008

Appropriation/Budget Activity/Serial No: Procurement of Ammunition, Army/ 1/ Ammunition	Weapon System Type:	P-1 Line Item Nomenclature: CTG 40MM PRAC, M918/M385A1 (E74315)								
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>LOAD, ASSEMBLE, PACK</b>										
FY 2007	AMTEC CORP JANESVILLE, WI	C/FP	ROCK ISLAND, IL	Jul 07	Jul 08	1329	11.95			
FY 2007	DSE INC. (BALIMOY) TAMPA, FL	C/FP	ROCK ISLAND, IL	Jul 07	Jul 08	1088	11.95			
FY 2008	AMTEC CORP JANESVILLE, WI	C/OPTION	ROCK ISLAND, IL	Mar 08	Aug 09	3838	12.60	Y		
FY 2008	DSE INC. (BALIMOY) TAMPA, FL	C/OPTION	ROCK ISLAND, IL	Mar 08	Aug 09	3141	12.60	Y		
FY 2009	AMTEC CORP JANESVILLE, WI	C/OPTION	ROCK ISLAND, IL	Mar 09	Aug 10	4901	12.32	Y		
FY 2009	DSE INC. (BALIMOY) TAMPA, FL	C/OPTION	ROCK ISLAND, IL	Mar 09	Aug 10	4010	12.32	Y		
<b>PROJECTILE M918</b>										
FY 2007	JKS INDUSTRIES INC MULBERRY, FL	C/OPTION	ROCK ISLAND, IL	Jul 07	Apr 08	942	11.91			
FY 2007	ELITE CNC MACHINING INC. LARGO, FL	C/OPTION	ROCK ISLAND, IL	Jul 07	Apr 08	770	11.91			
FY 2008	JKS INDUSTRIES INC MULBERRY, FL	C/OPTION	ROCK ISLAND, IL	Mar 08	Jun 09	2718	13.02	Y		
FY 2008	ELITE CNC MACHINING INC. LARGO, FL	C/OPTION	ROCK ISLAND, IL	Mar 08	Jun 09	2224	13.02	Y		
FY 2009	JKS INDUSTRIES INC MULBERRY, FL	C/OPTION	ROCK ISLAND, IL	Mar 09	Jun 10	3471	12.97	Y		
FY 2009	ELITE CNC MACHINING INC. LARGO, FL	C/OPTION	ROCK ISLAND, IL	Mar 09	Jun 10	2839	12.97	Y		
<b>PROJECTILE M385</b>										
FY 2007	JKS INDUSTRIES INC MULBERRY, FL	C/FP	ROCK ISLAND, IL	Jul 07	Apr 08	102	4.38			
FY 2007	ELITE CNC MACHINING INC. LARGO, FL	C/FP	ROCK ISLAND, IL	Jul 07	Apr 08	101	4.38			
FY 2007	AVASAR CORP PERRY, FL	C/OPTION	ROCK ISLAND, IL	Jul 07	Apr 08	578	4.38			
FY 2008	TO BE SELECTED	C/OPTION	ROCK ISLAND, IL	Mar 08	Apr 09	2256	4.95	Y		

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

Date:  
February 2008

Appropriation/Budget Activity/Serial No: Procurement of Ammunition, Army/ 1/ Ammunition		Weapon System Type:	P-1 Line Item Nomenclature: CTG 40MM PRAC, M918/M385A1 (E74315)							
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
FY 2009	TO BE SELECTED	C/OPTION	ROCK ISLAND, IL	Mar 09	Apr 10	2880	4.55	Y		

REMARKS: FY 2007 - FY 2009 LOAD, ASSEMBLE, PACK, (LAP) ASSEMBLY IS AN AVERAGE UNIT COST FOR MULTIPLE PRODUCERS.

FY 2007 - FY 2009 PROJECTILE M918 IS AN AVERAGE UNIT COST FOR MULTIPLE PRODUCERS.

FY 2007 PROJECTILE M385 IS AN AVERAGE UNIT COST FOR MULTIPLE PRODUCERS.

<b>FY 08 / 09 BUDGET PRODUCTION SCHEDULE</b>	P-1 ITEM NOMENCLATURE CTG 40MM PRAC, M918/M385A1 (E74315)	Date: February 2008
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COST ELEMENTS						Fiscal Year 08													Fiscal Year 09													Later
M F R	FY	S E R V	PROC QTY x1Mil	ACCEP PRIOR TO 1 OCT	BAL DUE AS OF 1 OCT	Calendar Year 08													Calendar Year 09													
						O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P			

LOAD, ASSEMBLE, PACK																																				
1	FY 07	A	1.33	0.00	1.33													0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.13						0.00		
2	FY 07	A	1.09	0.00	1.09													0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.01							0.00		
1	FY 08	A	3.84	0.00	3.84						A																						0.33	0.33	3.18	
2	FY 08	A	3.14	0.00	3.14						A																						0.27	0.27	2.60	
1	FY 09	A	4.90	0.00	4.90																															4.90
2	FY 09	A	4.00	0.00	4.00																															4.00
Total																																				
			18.30		18.30													0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.13	0.13					0.60	0.60	14.68	
						O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P							

M F R	Name - Location	PRODUCTION RATES			Reached D+	MFR	ADMIN LEAD TIME		MFR After 1 Oct	TOTAL After 1 Oct	REMARKS		
		MIN	1-8-5	MAX			1	Initial				Prior 1 Oct	
												After 1 Oct	After 1 Oct
1	AMTEC CORP, JANESVILLE, WI	269.00	320.00	500.00		1	Initial	6	6	19	25		
							Reorder	6	6	17	23		
2	DSE INC. (BALIMOY), TAMPA, FL	269.00	320.00	500.00		2	Initial	6	6	19	25		
							Reorder	6	6	17	23		
							Initial						
							Reorder						
							Initial						
							Reorder						
							Initial						
							Reorder						

<b>FY 10 / 11 BUDGET PRODUCTION SCHEDULE</b>	P-1 ITEM NOMENCLATURE CTG 40MM PRAC, M918/M385A1 (E74315)	Date: February 2008
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COST ELEMENTS					Fiscal Year 10															Fiscal Year 11															Later	
M F R	FY	S E R V	PROC QTY x1Mil	ACCEP PRIOR TO 1 OCT	BAL DUE AS OF 1 OCT	Calendar Year 10															Calendar Year 11															
						O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P							

LOAD, ASSEMBLE, PACK																															
1	FY 07	A	1.33	1.33																											0.00
2	FY 07	A	1.09	1.09																											0.00
1	FY 08	A	3.84	0.66	3.18	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.21																0.00
2	FY 08	A	3.14	0.54	2.60	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.17																0.00
1	FY 09	A	4.90	0.00	4.90											0.42	0.42	0.42	0.42	0.42	0.42	0.42	0.42	0.41	0.41	0.41	0.31			0.00	
2	FY 09	A	4.00	0.00	4.00											0.34	0.34	0.34	0.34	0.34	0.34	0.34	0.34	0.34	0.34	0.34	0.26			0.00	
Total			18.30	3.62	14.68	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.38	0.76	0.76	0.76	0.76	0.76	0.76	0.76	0.76	0.75	0.75	0.75	0.57					
						O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P		

M F R	Name - Location	PRODUCTION RATES			Reached D+	MFR	ADMIN LEAD TIME		MFR After 1 Oct	TOTAL After 1 Oct	REMARKS	
		MIN	1-8-5	MAX			Prior 1 Oct	After 1 Oct				
1	AMTEC CORP, JANESVILLE, WI	269.00	320.00	500.00		1	Initial	6	6	19	25	
							Reorder	6	6	17	23	
2	DSE INC. (BALIMOY), TAMPA, FL	269.00	320.00	500.00		2	Initial	6	6	19	25	
							Reorder	6	6	17	23	
							Initial					
							Reorder					
							Initial					
							Reorder					
							Initial					
							Reorder					

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

Date: February 2008

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 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013	To Complete	Total Prog
Proc Qty										
Gross Cost	874.2	23.3	8.0	17.1	27.7	11.9	11.8	12.0		986.0
Less PY Adv Proc										
Plus CY Adv Proc										
Net Proc P1	874.2	23.3	8.0	17.1	27.7	11.9	11.8	12.0		986.0
Initial Spares										
Total Proc Cost	874.2	23.3	8.0	17.1	27.7	11.9	11.8	12.0		986.0
Flyaway U/C										
Weapon System Proc U/C										

**Description:**

This line includes 60mm Mortar Ammunition, All Types.

FY 2007 funding total includes \$0 received in GWOT supplemental.

FY 2008 funding total includes \$0 received in The Consolidated Appropriations Act, 2008 (P.L. 110-161).

FY 2008 funding totals do not include \$0 previously requested for current FY 2008 GWOT requirements.

Exhibit P-5, Weapon AMMO Cost Analysis	Appropriation/Budget Activity/Serial No: Procurement of Ammunition, Army / 1 / Ammunition	P-1 Line Item Nomenclature: 60MM MORTAR, ALL TYPES (E89600)			Weapon System Type:	Date: February 2008					
AMMO Cost Elements		ID	FY 07			FY 08			FY 09		
		CD	Total Cost	Qty	Unit Cost	Total Cost	Qty	Unit Cost	Total Cost	Qty	Unit Cost
			\$000	x1000	\$	\$000	x1000	\$	\$000	x1000	\$
E85700 60MM ILLUM (IR) M767			13158	20	658	1095			6555	10	656
E92200 60MM MTR FULL RANGE PRAC M769						6945	43	162	10500	70	150
E92900 60MM HE W/PD FUZE M768			10110	25	404						
<b>Total:</b>			<b>23268</b>			<b>8040</b>			<b>17055</b>		

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

Date: February 2008

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

P-1 Item Nomenclature  
CARTRIDGE 60MM ILLUM (IR) M767 (E85700)

Program Elements for Code B Items:

Code: A

Other Related Program Elements:

	Prior Years	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013	To Complete	Total Prog
Proc Qty	14	20		10	27	1	1	1		74
Gross Cost	7.0	13.2	1.1	6.6	17.2	1.4	1.4	1.5		49.3
Less PY Adv Proc										
Plus CY Adv Proc										
Net Proc P1	7.0	13.2	1.1	6.6	17.2	1.4	1.4	1.5		49.3
Initial Spares										
Total Proc Cost	7.0	13.2	1.1	6.6	17.2	1.4	1.4	1.5		49.3
Flyaway U/C										
Weapon System Proc U/C										

**Description:**

The 60mm M767 Infrared Illumination Cartridge with Mechanical Time - Super Quick (MTSQ) 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 to illuminate targets during night operations. Infrared Illumination greatly enhances the effectiveness of night vision devices. The round consists of a 2-piece body filled with an illuminating flare, M776 Mechanical Time (MT) fuze and tail assembly. The round is ballistically similar to the 60mm High Explosive (HE) and Smoke cartridges. This item is Code A, approved for service use.

**Justification:**

This is a training standard item used in both training and combat. The FY 2009 procurement supports annual training requirements and builds a depot level in accordance with the Army's procurement goals.

TYPE CLASSIFICATION DATE: March 2001

<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: CARTRIDGE 60MM ILLUM (IR) M767 (E85700)			Weapon System Type:		Date: February 2008	
<b>AMMO Cost Elements</b>		ID CD	<b>FY 07</b>			<b>FY 08</b>			<b>FY 09</b>		
			Total Cost \$000	Qty x1000	Unit Cost \$	Total Cost \$000	Qty x1000	Unit Cost \$	Total Cost \$000	Qty x1000	Unit Cost \$
<b>AMMUNITION HARDWARE</b>											
Load, Assemble, and Pack			2513	20	126				1300	10	130
Body Tube and Tail Cone			567	21	27				439	11	41
Fuze, MTSQ M776			3276	21	156				1727	11	162
Ignition Cartridge, M702			315	21	15				174	11	16
Propellant Charge, M235			656	82	8				349	42	8
Fin Assembly			126	21	6				65	11	6
IR Illum Cannister			3339	21	159				1761	11	165
Parachute			336	21	16				183	11	17
<b>SubTotal AMMO Hardware</b>			<b>11128</b>						<b>5998</b>		
<b>Production Support Costs</b>											
Production Engineering			1402				1095		359		
Quality Assurance			369						53		
Acceptance Testing			259						145		
<b>SubTotal Prod. Support</b>			<b>2030</b>				<b>1095</b>		<b>557</b>		
<b>Total:</b>			<b>13158</b>		<b>658</b>		<b>1095</b>		<b>6555</b>		<b>656</b>



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

Date:  
February 2008

Appropriation/Budget Activity/Serial No: Procurement of Ammunition, Army/ 1/ Ammunition	Weapon System Type:	P-1 Line Item Nomenclature: CARTRIDGE 60MM ILLUM (IR) M767 (E85700)								
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>Load, Assemble, and Pack</b>										
FY 2007	Pine Bluff Arsenal Pine Bluff, AR	SS/FP	Picatinny, NJ	Mar 07	Mar 09	20	126	Yes		
FY 2009	Pine Bluff Arsenal Pine Bluff, AR	SS/FP	Picatinny, NJ	Mar 09	Feb 11	10	130	Yes		
<b>Body Tube and Tail Cone</b>										
FY 2007	Lewis Engineering Marshall, TX	SS/Option	Picatinny, NJ	Mar 07	Feb 08	21	27	Yes		
FY 2009	To Be Selected	C/FP	Picatinny, NJ	Mar 09	Feb 10	11	41	Yes		
<b>Fuze, MTSQ M776</b>										
FY 2007	Junghans AG Schramberg, Germany	SS/Option	Picatinny, NJ	Mar 07	Feb 08	21	156	Yes		
FY 2009	Junghans AG Schramberg, Germany	SS/Option	Picatinny, NJ	Mar 09	Feb 10	11	162	Yes		
<b>Ignition Cartridge, M702</b>										
FY 2007	Pocal Industries Moscow, PA	SS/Option	Picatinny, NJ	Mar 07	Feb 08	21	15	Yes		
FY 2009	Pocal Industries Moscow, PA	SS/Option	Picatinny, NJ	Mar 09	Feb 10	11	16	Yes		
<b>Propellant Charge, M235</b>										
FY 2007	American Ordnance Milan, TN	SS/Option	Picatinny, NJ	Mar 07	Feb 08	82	8	Yes		
FY 2009	American Ordnance Milan, TN	SS/Option	Picatinny, NJ	Mar 09	Feb 10	42	8	Yes		
<b>Fin Assembly</b>										
FY 2007	Wilkenson Manufacturing Fort Calhoun, NE	SS/Option	Picatinny, NJ	Mar 07	Feb 08	21	6	Yes		
FY 2009	Wilkenson Manufacturing Fort Calhoun, NE	SS/Option	Picatinny, NJ	Mar 09	Feb 10	11	6	Yes		
<b>IR Illum Cannister</b>										
FY 2007	Crane AAA Crane, IN	SS/FP	Picatinny, NJ	Mar 07	Feb 08	21	159	Yes		
FY 2009	Crane AAA	SS/FP	Picatinny, NJ	Mar 09	Feb 10	11	165	Yes		

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

Date:  
February 2008

Appropriation/Budget Activity/Serial No: Procurement of Ammunition, Army/ 1/ Ammunition		Weapon System Type:	P-1 Line Item Nomenclature: CARTRIDGE 60MM ILLUM (IR) M767 (E85700)							
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>Parachute</b>	Crane, IN									
FY 2007	North American Aerodynamics Roxboro, NC	SS/Option	Picatinny, NJ	Mar 07	Feb 08	21	16	Yes		
FY 2009	North American Aerodynamics Roxboro, NC	SS/Option	Picatinny, NJ	Mar 09	Feb 10	11	17	Yes		

REMARKS:

<b>FY 08 / 09 BUDGET PRODUCTION SCHEDULE</b>	P-1 ITEM NOMENCLATURE CARTRIDGE 60MM ILLUM (IR) M767 (E85700)	Date: February 2008
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COST ELEMENTS						Fiscal Year 08														Fiscal Year 09														Later
M F R	FY	S E R V	PROC QTY Each	ACCEP PRIOR TO 1 OCT	BAL DUE AS OF 1 OCT	Calendar Year 08														Calendar Year 09														
						O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P					

Load, Assemble, and Pack																																									
1	FY 07 &P	A	34	0	34													14												12	8								0		
1	FY 09	A	10	0	10																										A									10	
Total			44		44														14													12	8							10	
						O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P												

M F R	Name - Location	PRODUCTION RATES			Reached D+	MFR	ADMIN LEAD TIME		MFR After 1 Oct	TOTAL After 1 Oct	REMARKS			
		MIN	1-8-5	MAX			1	Initial				Reorder	Prior 1 Oct	After 1 Oct
1	Pine Bluff Arsenal, Pine Bluff, AR	1	12	25		1	6	6	23	29				
							6	6	23	29				



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

Date: February 2008

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

P-1 Item Nomenclature  
CTG, MORTAR, 60MM, PRACTICE, M769 (E92200)

Program Elements for Code B Items:

Code:  
A

Other Related Program Elements:

	Prior Years	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013	To Complete	Total Prog
Proc Qty	403		43	70	68	67	65	65		781
Gross Cost	62.5		6.9	10.5	10.5	10.5	10.4	10.5		121.8
Less PY Adv Proc										
Plus CY Adv Proc										
Net Proc P1	62.5		6.9	10.5	10.5	10.5	10.4	10.5		121.8
Initial Spares										
Total Proc Cost	62.5		6.9	10.5	10.5	10.5	10.4	10.5		121.8
Flyaway U/C										
Weapon System Proc U/C										

**Description:**

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

**Justification:**

This is a training unique item; not used in combat. The FY 2009 procurement supports annual training requirements and builds a depot level in accordance with the Army's procurement goals. Use of the M769 will reduce training costs and environmental impacts.

TYPE CLASSIFICATION DATE: September 2001

<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, PRACTICE, M769 (E92200)			Weapon System Type:		Date: February 2008	
<b>AMMO Cost Elements</b>		ID CD	<b>FY 07</b>			<b>FY 08</b>			<b>FY 09</b>		
			Total Cost	Qty	Unit Cost	Total Cost	Qty	Unit Cost	Total Cost	Qty	Unit Cost
			\$000	x1000	\$	\$000	x1000	\$	\$000	x1000	\$
<b>AMMUNITION HARDWARE</b>											
Load, Assemble, and Pack						552	43	13	980	70	14
Shell Body						1469	45	33	2482	73	34
Fuze, Practice, M775						897	45	20	1533	73	21
Ignition Cartridge M702						710	45	16	1241	73	17
Propellant Charge M235						1433	176	8	2296	287	8
Fin Assembly M27						270	45	6	438	73	6
<b>SubTotal AMMO Hardware</b>						<b>5331</b>			<b>8970</b>		
<b>Production Support Costs</b>											
Production Engineering						993			759		
Quality Assurance						149			155		
Acceptance Testing						472			616		
<b>SubTotal Prod. Support</b>						<b>1614</b>			<b>1530</b>		
<b>Total:</b>						<b>6945</b>		<b>162</b>	<b>10500</b>		<b>150</b>

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

Date:  
February 2008

Appropriation/Budget Activity/Serial No: Procurement of Ammunition, Army/ 1/ Ammunition	Weapon System Type:	P-1 Line Item Nomenclature: CTG, MORTAR, 60MM, PRACTICE, M769 (E92200)								
WBS Cost Elements:	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY x1000	Unit Cost \$000	Specs Avail Now?	Date Revsn Avail	RFP Issue Date
<b>Load, Assemble, and Pack</b>										
FY 2008	Medico Industries, Inc. Wilkes-Barre, PA	SS/OPT	Picatinny Arsenal, NJ	Mar 08	Mar 10	43	13	Y		
FY 2009	Medico Industries, Inc. Wilkes-Barre, PA	SS/OPT	Picatinny Arsenal, NJ	Mar 09	Mar 11	70	14	Y		
<b>Shell Body</b>										
FY 2008	To Be Selected	SS/OPT	Picatinny Arsenal, NJ	Mar 08	Mar 09	45	33	Y		
FY 2009	To Be Selected	SS/OPT	Picatinny Arsenal, NJ	Mar 09	Mar 10	73	34	Y		
<b>Fuze, Practice, M775</b>										
FY 2008	To Be Selected	C/FP	Picatinny Arsenal, NJ	Mar 08	Mar 09	45	20	Y		
FY 2009	To Be Selected	SS/OPT	Picatinny Arsenal, NJ	Mar 09	Mar 10	73	21	Y		
<b>Ignition Cartridge M702</b>										
FY 2008	Pocal Industries Moscow, PA	SS/OPT	Rock Island Arsenal, IL	Mar 08	Mar 09	45	16	Y		
FY 2009	Pocal Industries Moscow, PA	SS/OPT	Rock Island Arsenal, IL	Mar 09	Mar 10	73	17	Y		
<b>Propellant Charge M235</b>										
FY 2008	American Ordnance Milan, TN	SS/OPT	Picatinny Arsenal, NJ	Mar 08	Mar 09	176	8	Y		
FY 2009	American Ordnance Milan, TN	SS/OPT	Picatinny Arsenal, NJ	Mar 09	Mar 10	287	8	Y		
<b>Fin Assembly M27</b>										
FY 2008	Wilkenson Manufacturing Ft. Calhoun, NE	SS/OPT	Picatinny Arsenal, NJ	Mar 08	Mar 09	45	6	Y		
FY 2009	Wilkenson Manufacturing Ft. Calhoun, NE	SS/OPT	Picatinny Arsenal, NJ	Mar 09	Mar 10	73	6	Y		

REMARKS:





<b>FY 10 / 11 BUDGET PRODUCTION SCHEDULE</b>	P-1 ITEM NOMENCLATURE CTG, MORTAR, 60MM, PRACTICE, M769 (E92200)	Date: February 2008
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COST ELEMENTS						Fiscal Year 10														Fiscal Year 11														Later
M F R	FY	S E R V	PROC QTY x1000	ACCEP PRIOR TO 1 OCT	BAL DUE AS OF 1 OCT	Calendar Year 10														Calendar Year 11														
						O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P					

Load, Assemble, and Pack																																		
1	FY 07 &P	A	133	133																											0			
1	FY 08	A	43	0	43					10	10	10	10	3																	0			
1	FY 09	A	70	0	70																						10	10	10	10	10	10	10	0
Total																																		
			246	133	113						10	10	10	10	3												10	10	10	10	10	10		
						O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P					

M F R	Name - Location	PRODUCTION RATES			Reached D+	MFR	ADMIN LEAD TIME		MFR After 1 Oct	TOTAL After 1 Oct	REMARKS		
		MIN	1-8-5	MAX			Prior 1 Oct	After 1 Oct					
		1	Initial	Reorder			6	6				24	30
1	Medico Industries, Inc., Wilkes-Barre, PA	5	10	40		1	Initial	Reorder	6	6	24	30	
							Initial	Reorder					
							Initial	Reorder					
							Initial	Reorder					
							Initial	Reorder					
							Initial	Reorder					

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

Date: February 2008

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

P-1 Item Nomenclature  
CTG MORTAR 60MM HE M768 W/M783PD FUZE (E92900)

Program Elements for Code B Items:

Code: A

Other Related Program Elements:

	Prior Years	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013	To Complete	Total Prog
Proc Qty	271	25								296
Gross Cost	105.1	10.1								115.2
Less PY Adv Proc										
Plus CY Adv Proc										
Net Proc P1	105.1	10.1								115.2
Initial Spares										
Total Proc Cost	105.1	10.1								115.2
Flyaway U/C										
Weapon System Proc U/C										

**Description:**

The 60mm M768 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 uses the new M783 dual-safety, point-detonating/delay fuze. It also uses PAX-21 insensitive explosive fill, and a new fuze adapter and packaging that will enable the round to meet most insensitive munitions 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 war-fighting round. However, the M768 is highly lethal and can be used in combat. This item is Code A, approved for service use.

**Justification:**

This is a training standard item used in both training and combat.

TYPE CLASSIFICATION DATE: November 2001

<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 M768 W/M783PD FUZE (E92900)			Weapon System Type:		Date: February 2008	
<b>AMMO Cost Elements</b>		ID CD	<b>FY 07</b>			<b>FY 08</b>			<b>FY 09</b>		
			Total Cost \$000	Qty x1000	Unit Cost \$	Total Cost \$000	Qty x1000	Unit Cost \$	Total Cost \$000	Qty x1000	Unit Cost \$
<b>AMMUNITION HARDWARE</b>											
Load, Assemble, and Pack (LAP)			1562	25	62						
Fuze, Point Detonating, M783			3483	26	134						
Shell Body HF1			1129	26	43						
Ignition Cartridge M702			397	26	15						
Propellant Charge M235			791	103	8						
Fin Assembly M27			155	26	6						
<b>SubTotal AMMO Hardware</b>			<b>7517</b>								
<b>Production Support Costs</b>											
Production Engineering			1735								
Quality Assurance			546								
Acceptance Testing			312								
<b>SubTotal Prod. Support</b>			<b>2593</b>								
<b>Total:</b>			<b>10110</b>		<b>404</b>						

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

Date:  
February 2008

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>Load, Assemble, and Pack (LAP)</b> FY 2007	Canadian Commercial Corp. Ottawa, Ontario	SS/Option	Picatinny Arsenal, NJ	Mar 07	Mar 09	25	62	Yes		
<b>Fuze, Point Detonating, M783</b> FY 2007	Canadian Commercial Corp. Ottawa, Ontario	SS/Option	Picatinny Arsenal, NJ	Feb 07	Dec 08	26	134	Yes		
<b>Shell Body HF1</b> FY 2007	Medico Industries Inc Scranton, PA	SS/Option	Picatinny Arsenal, NJ	Mar 07	Dec 08	26	43	Yes		
<b>Ignition Cartridge M702</b> FY 2007	Pocal Industries Moscow, PA	C/FP	Picatinny Arsenal, NJ	Mar 07	Dec 08	26	15	Yes		
<b>Propellant Charge M235</b> FY 2007	American Ordnance Milan, TN	C/FP	Picatinny Arsenal, NJ	Mar 07	Dec 08	103	8	Yes		
<b>Fin Assembly M27</b> FY 2007	Wilkenson Manufacturing Fort Calhoun, NE	SS/Option	Picatinny Arsenal, NJ	Mar 07	Dec 08	26	6	Yes		

REMARKS:



<b>FY 10 / 11 BUDGET PRODUCTION SCHEDULE</b>															P-1 ITEM NOMENCLATURE CTG MORTAR 60MM HE M768 W/M783PD FUZE (E92900)										Date: February 2008				
--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	---	--	--	--	--	--	--	--	--	--	------------------------	--	--	--	--

COST ELEMENTS						Fiscal Year 10														Fiscal Year 11										Later
M F R	FY	S E R V	PROC QTY x1000	ACCEP PRIOR TO 1 OCT	BAL DUE AS OF 1 OCT	Calendar Year 10														Calendar Year 11										
						O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	

Load, Assemble, and Pack (LAP)																																				
1	FY 07 &P	A	111	78	33																														0	
Total																																				
						O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P							

M F R	Name - Location	PRODUCTION RATES			Reached D+	MFR	ADMIN LEAD TIME		MFR After 1 Oct	TOTAL After 1 Oct	REMARKS	
		MIN	1-8-5	MAX			Prior 1 Oct	After 1 Oct				
1	Canadian Commercial Corp, Ottawa, Ontario	5	10	30		1	Initial	6	6	24	30	
							Reorder	3	6	24	30	
							Initial					
							Reorder					
							Initial					
							Reorder					
							Initial					
							Reorder					
							Initial					
							Reorder					

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

Date: February 2008

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 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013	To Complete	Total Prog
Proc Qty										
Gross Cost	547.2	31.1	53.4	58.5	59.1	60.2	61.9	63.0		934.3
Less PY Adv Proc										
Plus CY Adv Proc										
Net Proc P1	547.2	31.1	53.4	58.5	59.1	60.2	61.9	63.0		934.3
Initial Spares										
Total Proc Cost	547.2	31.1	53.4	58.5	59.1	60.2	61.9	63.0		934.3
Flyaway U/C										
Weapon System Proc U/C										

**Description:**

This budget line includes 81mm Mortar Ammunition, All Types.

FY 2007 funding total includes \$0 received in GWOT supplemental.

FY 2008 funding total includes \$0 received in The Consolidated Appropriations Act, 2008 (P.L. 110-161).

FY 2008 funding totals do not include \$0 previously requested for current FY 2008 GWOT 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: February 2008		
<b>AMMO Cost Elements</b>		ID CD	<b>FY 07</b>			<b>FY 08</b>			<b>FY 09</b>		
			Total Cost	Qty	Unit Cost	Total Cost	Qty	Unit Cost	Total Cost	Qty	Unit Cost
			\$000	x1000	\$	\$000	x1000	\$	\$000	x1000	\$
E18403 81MM HE M821A1			15973	39	410	11935	25	477	12256	25	490
E18404 81MM HE W/PD FUZE M889			10107	30	337	12228	28	437	12558	28	449
E69600 81MM IMP TRNG FULL RANGE M879			4983	37	135	21283	90	236	25504	139	183
E76100 81MM ILLUM M853A1						7988	10	799	8203	11	779
<b>Total:</b>			<b>31063</b>			<b>53434</b>			<b>58521</b>		



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

Date: February 2008

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

P-1 Item Nomenclature  
CTG MORTAR 81MM HE M821 W/MO FUZE (E18403)

Program Elements for Code B Items:

Code:  
A

Other Related Program Elements:

	Prior Years	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013	To Complete	Total Prog
Proc Qty	986	39	25	25	25	25	25	25		1175
Gross Cost	234.0	16.0	11.9	12.3	12.5	12.8	13.0	13.3		325.7
Less PY Adv Proc										
Plus CY Adv Proc										
Net Proc P1	234.0	16.0	11.9	12.3	12.5	12.8	13.0	13.3		325.7
Initial Spares										
Total Proc Cost	234.0	16.0	11.9	12.3	12.5	12.8	13.0	13.3		325.7
Flyaway U/C										
Weapon System Proc U/C										

**Description:**

The 81mm M821A1 High Explosive (HE) cartridge with multi-option fuze is designed for use with the M252 Mortar Weapon System used by the Stryker Brigade Combat Teams as well as light infantry battalions including Airborne, Air Assault and Ranger. The round is used against personnel and materiel providing both fragmentation and blast effect. When the fuze is set in the proximity mode, it functions at a height over the target that is optimized for lethality. This item is Code A, approved for service use.

**Justification:**

This is a training standard item used in both training and combat. The FY 2009 procurement supports annual training requirements and builds a depot level in accordance with the Army's procurement goals.

TYPE CLASSIFICATION DATE: July 1991

Exhibit P-5, Weapon AMMO Cost Analysis		Appropriation/Budget Activity/Serial No: Procurement of Ammunition, Army / 1 / Ammunition		P-1 Line Item Nomenclature: CTG MORTAR 81MM HE M821 W/MO FUZE (E18403)			Weapon System Type:		Date: February 2008		
AMMO Cost Elements		ID CD	FY 07			FY 08			FY 09		
			Total Cost \$000	Qty x1000	Unit Cost \$	Total Cost \$000	Qty x1000	Unit Cost \$	Total Cost \$000	Qty x1000	Unit Cost \$
<b>AMMUNITION HARDWARE</b>											
Load, Assemble, Pack (LAP)			2756	39	71	1530	25	61	1825	25	73
Shell Body			2094	40	52	1170	26	45	1404	26	54
*Ignition Cartridge			656	41	16	422	26	16	442	26	17
Propellant Charge			1712	163	11	957	102	9	780	78	10
*Fin Assembly			451	41	11	286	26	11	530	26	20
Fuze, M734A1			8733	41	213	5538	26	213	6630	26	255
<b>SubTotal AMMO Hardware</b>			<b>16402</b>			<b>9903</b>			<b>11611</b>		
<b>Production Support Costs</b>											
Production Engineering			441			1616			245		
Acceptance Testing			524			416			400		
<b>SubTotal Prod. Support</b>			<b>965</b>			<b>2032</b>			<b>645</b>		
<b>COST - Nonrecurring</b>											
*Government Furnished Material			-1394								
<b>SubTotal COST - Nonrecurring</b>			<b>-1394</b>								
<b>Total:</b>			<b>15973</b>		<b>410</b>	<b>11935</b>		<b>477</b>	<b>12256</b>		<b>490</b>

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

Date:  
February 2008

Appropriation/Budget Activity/Serial No: Procurement of Ammunition, Army/ 1/ Ammunition	Weapon System Type:	P-1 Line Item Nomenclature: CTG MORTAR 81MM HE M821 W/MO FUZE (E18403)								
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>Load, Assemble, Pack (LAP)</b>										
FY 2007	General Dynamics, OTS Marion, IL.	SS/OPT	Rock Island Arsenal	May 07	Mar 09	39	71	Yes		
FY 2008	General Dynamics, OTS Marion, IL.	SS/OPT	Rock Island Arsenal	Mar 08	Mar 10	25	61	Yes		
FY 2009	General Dynamics, OTS Marion, IL.	SS/OPT	Rock Island Arsenal	Mar 09	Mar 11	25	73	Yes		
<b>Shell Body</b>										
FY 2007	Medico Industries, Inc. Wilkes-Barre, PA	C/FP	Picatinny, NJ	Mar 07	Dec 08	40	52	Yes		
FY 2008	Medico Industries, Inc. Wilkes-Barre, PA	SS/OPT	Picatinny, NJ	Mar 08	Dec 09	26	45	Yes		
FY 2009	Medico Industries, Inc. Wilkes-Barre, PA	SS/OPT	Picatinny, NJ	Mar 09	Dec 10	26	54	Yes		
<b>*Ignition Cartridge</b>										
FY 2007	Government Furnished Material		Stock Issue			41	16	Yes		
FY 2008	Pocal Industries, Inc. Scranton, PA	SS/OPT	Picatinny, NJ	Mar 08	Dec 09	26	16	Yes		
FY 2009	Pocal Industries, Inc. Scranton, PA	SS/OPT	Picatinny, NJ	Mar 09	Dec 10	26	17	Yes		
<b>Propellant Charge</b>										
FY 2007	General Dynamics, OTS Marion, IL.	SS/OPT	Picatinny, NJ	Jan 07	Dec 08	163	11	Yes		
FY 2008	General Dynamics, OTS Marion, IL.	SS/OPT	Picatinny, NJ	Mar 08	Dec 09	102	9	Yes		
FY 2009	To Be Selected	C/FP	Picatinny, NJ	Mar 09	Dec 10	78	10	Yes		
<b>*Fin Assembly</b>										
FY 2007	Government Furnished Material		Stock Issue			41	11	Yes		
FY 2008	Wilkenson Manufacturing Fort Calhoun, NE	SS/OPT	Rock Island, IL	Mar 08	Dec 09	26	11	Yes		
FY 2009	Wilkenson Manufacturing Fort Calhoun, NE	C/FP	Rock Island, IL	Mar 09	Dec 10	26	20	Yes		

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

Date:  
February 2008

Appropriation/Budget Activity/Serial No: Procurement of Ammunition, Army/ 1/ Ammunition		Weapon System Type:	P-1 Line Item Nomenclature: CTG MORTAR 81MM HE M821 W/MO FUZE (E18403)							
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>Fuze, M734A1</b>										
FY 2007	L3-KDI Cincinnati, OH	SS/OPT	Picatinny, NJ	Jan 07	Dec 08	41	213	Yes		
FY 2008	L3-KDI Cincinnati, OH	SS/OPT	Picatinny, NJ	Mar 08	Dec 09	26	213	Yes		
FY 2009	To Be Selected	C/FP	Picatinny, NJ	Mar 09	Dec 10	26	255	Yes		

REMARKS:

<b>FY 08 / 09 BUDGET PRODUCTION SCHEDULE</b>	P-1 ITEM NOMENCLATURE CTG MORTAR 81MM HE M821 W/MO FUZE (E18403)	Date: February 2008
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COST ELEMENTS						Fiscal Year 08														Fiscal Year 09										Later							
M F R	FY	S E R V	PROC QTY x1000	ACCEP PRIOR TO 1 OCT	BAL DUE AS OF 1 OCT	Calendar Year 08														Calendar Year 09																	
						O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P								
Load, Assemble, Pack (LAP)																																					
1	FY 07 &P	A	90	0	90																				12	12	11		5	5	5	5	5	14	12	4	
1	FY 08	A	25	0	25						A																										25
1	FY 09	A	25	0	25																								A								25
1	FY 07	MC	56	0	56																								15	15	15	11					0
1	FY 08	MC	86	0	86																															86	
1	FY 09	MC	71	0	71																															71	
Total																										12	12	11		20	20	20	16	5	14	12	211
						O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P								

M F R	Name - Location	PRODUCTION RATES			Reached D+	MFR	ADMIN LEAD TIME		MFR After 1 Oct	TOTAL After 1 Oct	REMARKS	
		MIN	1-8-5	MAX			1	Initial				Reorder
1	General Dynamics, OTS, Marion, IL.	5	15	20		1	Initial	6	6	24	30	
							Reorder	3	6	24	30	
							Initial					
							Reorder					
							Initial					
							Reorder					
							Initial					
							Reorder					

<b>FY 10 / 11 BUDGET PRODUCTION SCHEDULE</b>	P-1 ITEM NOMENCLATURE CTG MORTAR 81MM HE M821 W/MO FUZE (E18403)	Date: February 2008
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COST ELEMENTS						Fiscal Year 10													Fiscal Year 11													Later
M F R	FY	S E R V	PROC QTY x1000	ACCEP PRIOR TO 1 OCT	BAL DUE AS OF 1 OCT	Calendar Year 10													Calendar Year 11													
						O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P			
Load, Assemble, Pack (LAP)																																
1	FY 07 &P	A	90	86	4	4																							0			
1	FY 08	A	25	0	25						15	10																	0			
1	FY 09	A	25	0	25																	15	10						0			
1	FY 07	MC	56	56																									0			
1	FY 08	MC	86	0	86						15	15	15	15	15	11													0			
1	FY 09	MC	71	0	71																	15	15	15	15	11			0			
Total																																
						O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P			

M F R	Name - Location	PRODUCTION RATES			Reached D+	MFR	ADMIN LEAD TIME		MFR After 1 Oct	TOTAL After 1 Oct	REMARKS	
		MIN	1-8-5	MAX			1	Prior 1 Oct				
								Initial				Reorder
1	General Dynamics, OTS, Marion, IL.	5	15	20		1	6	6	24	30		

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

Date: February 2008

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

P-1 Item Nomenclature  
CARTRIDGE 81MM M889 W/ PD FUZE (E18404)

Program Elements for Code B Items:

Code: A

Other Related Program Elements:

	Prior Years	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013	To Complete	Total Prog
Proc Qty	20	30	28	28	28	28	28	29		219
Gross Cost	11.3	10.1	12.2	12.6	12.8	13.1	13.3	13.6		98.9
Less PY Adv Proc										
Plus CY Adv Proc										
Net Proc P1	11.3	10.1	12.2	12.6	12.8	13.1	13.3	13.6		98.9
Initial Spares										
Total Proc Cost	11.3	10.1	12.2	12.6	12.8	13.1	13.3	13.6		98.9
Flyaway U/C										
Weapon System Proc U/C										

**Description:**

The 81mm M889A1 Mortar High Explosive/Point Detonating (HE/PD) cartridges is designed for use with the M252 Mortar Weapon System used by the new Stryker Brigade Combat Teams as well as light infantry battalions including Airborne, Air Assault and Ranger. This round uses the new M783 dual safety, point detonating/delay fuze. The tail assembly and propulsion system are common to all other 81mm HE and training rounds. This round is used primarily in training since it is less expensive than the M821A1, the preferred war-fighting round. However, the M889A1 is highly lethal and can be used in combat. This item is Code A, approved for service use.

**Justification:**

This is a training standard item used in both training and combat. The FY 2009 procurement supports annual training requirements and builds a depot level in accordance with the Army's procurement goals.

TYPE CLASSIFICATION DATE: July 1991

<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: CARTRIDGE 81MM M889 W/ PD FUZE (E18404)			Weapon System Type:		Date: February 2008		
<b>AMMO Cost Elements</b>		ID CD	<b>FY 07</b>			<b>FY 08</b>			<b>FY 09</b>		
			Total Cost \$000	Qty x1000	Unit Cost \$	Total Cost \$000	Qty x1000	Unit Cost \$	Total Cost \$000	Qty x1000	Unit Cost \$
<b>AMMUNITION HARDWARE</b>											
Load, Assemble, Pack (LAP)			2130	30	71	1980	28	71	2060	28	73
Fuze, M783 PD			4101	31	134	5384	29	188	5603	29	191
Shell Body			1582	31	52	1513	29	53	1575	29	54
*Ignition Cartridge			465	31	15	465	29	16	491	29	17
Propellant Charge			1267	121	11	1061	113	9	1105	115	10
*Fin Assembly			589	31	19	574	29	20	597	29	20
<b>SubTotal AMMO Hardware</b>			<b>10134</b>			<b>10977</b>			<b>11431</b>		
<b>Production Support Costs</b>											
Production Engineering			633			530			541		
Quality Assurance						304			162		
Acceptance Testing			394			417			424		
<b>SubTotal Prod. Support</b>			<b>1027</b>			<b>1251</b>			<b>1127</b>		
<b>COST - Nonrecurring</b>											
*Government Furnished Material			-1054								
<b>SubTotal COST - Nonrecurring</b>			<b>-1054</b>								
<b>Total:</b>			<b>10107</b>		<b>337</b>	<b>12228</b>		<b>437</b>	<b>12558</b>		<b>449</b>



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

Date:  
February 2008

Appropriation/Budget Activity/Serial No: Procurement of Ammunition, Army/ 1/ Ammunition	Weapon System Type:	P-1 Line Item Nomenclature: CARTRIDGE 81MM M889 W/ PD FUZE (E18404)								
WBS Cost Elements:	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY Units	Unit Cost \$000	Specs Avail Now?	Date Revsn Avail	RFP Issue Date
<b>Load, Assemble, Pack (LAP)</b>										
FY 2007	General Dynamics, OTS Marion, IL.	C/FP	Picatinny, NJ	May 07	May 09	30	71	Yes		
FY 2008	General Dynamics, OTS Marion, IL.	SS/OPT	Picatinny, NJ	Mar 08	Mar 10	28	71	Yes		
FY 2009	General Dynamics, OTS Marion, IL.	SS/OPT	Picatinny, NJ	Mar 09	Mar 11	28	73	Yes		
<b>Fuze, M783 PD</b>										
FY 2007	KDI Cincinnati, OH	SS/OPT	Picatinny, NJ	Jan 07	Feb 08	31	134	Yes		
FY 2008	To Be Selected	C/FP	Picatinny, NJ	Jul 08	Jun 09	29	188	Yes		
FY 2009	To Be Selected	SS/OPT	Picatinny, NJ	Mar 09	Feb 10	29	191	Yes		
<b>Shell Body</b>										
FY 2007	Medico, Industries, Inc. Wilke-Barre, PA	SS/OPT	Picatinny, NJ	Mar 07	Feb 08	31	52	Yes		
FY 2008	Medico, Industries, Inc. Wilke-Barre, PA	SS/OPT	Picatinny, NJ	Mar 08	Feb 09	29	53	Yes		
FY 2009	Medico, Industries, Inc. Wilke-Barre, PA	SS/OPT	Picatinny, NJ	Mar 09	Feb 10	29	54	Yes		
<b>*Ignition Cartridge</b>										
FY 2007	Government Furnished Material Picatinny Arsenal, NJ		Stock Issue			31	15	Yes		
FY 2008	Pocal Industries Scranton, PA	SS/OPT	Picatinny, NJ	Mar 08	Feb 09	29	16	Yes		
FY 2009	Pocal Industries Scranton, PA	SS/OPT	Picatinny, NJ	Mar 09	Feb 10	29	17	Yes		
<b>Propellant Charge</b>										
FY 2007	General Dynamics, OTS Marion, IL.	SS/OPT	Picatinny, NJ	Jan 07	Feb 08	121	11	Yes		
FY 2008	General Dynamics, OTS Marion, IL.	SS/OPT	Picatinny, NJ	Mar 08	Feb 09	113	9	Yes		
FY 2009	To Be Selected	C/FP	Picatinny, NJ	Mar 09	Feb 10	115	10	Yes		

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

Date:  
February 2008

Appropriation/Budget Activity/Serial No: Procurement of Ammunition, Army/ 1/ Ammunition		Weapon System Type:	P-1 Line Item Nomenclature: CARTRIDGE 81MM M889 W/ PD FUZE (E18404)							
WBS Cost Elements:	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY Units	Unit Cost \$000	Specs Avail Now?	Date Revsn Avail	RFP Issue Date
<b>*Fin Assembly</b>										
FY 2007	Government Furnished Material Picatinny Arsenal, NJ		Stock Issue			31	19	Yes		
FY 2008	To Be Selected	SS/OPT	Rock Island, IL	May 08	Feb 09	29	20	Yes		
FY 2009	To Be Selected	C/FP	Rock Island, IL	Mar 09	Feb 10	29	20	Yes		

REMARKS:



<b>FY 10 / 11 BUDGET PRODUCTION SCHEDULE</b>	P-1 ITEM NOMENCLATURE CARTRIDGE 81MM M889 W/ PD FUZE (E18404)	Date: February 2008
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COST ELEMENTS						Fiscal Year 10														Fiscal Year 11										Later
M F R	FY	S E R V	PROC QTY Each	ACCEP PRIOR TO 1 OCT	BAL DUE AS OF 1 OCT	Calendar Year 10														Calendar Year 11										
						O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	

Load, Assemble, Pack (LAP)																														
1	FY 07 &P	A	50	50																										0
1	FY 08	A	28	0	28					12	12	4																		0
1	FY 09	A	28	0	28																			12	12	4				0
Total																														
			106	50	56					12	12	4												12	12	4				
						O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	

M F R	Name - Location	PRODUCTION RATES			Reached D+	MFR	ADMIN LEAD TIME		MFR After 1 Oct	TOTAL After 1 Oct	REMARKS	
		MIN	1-8-5	MAX			1	Initial				Reorder
1	General Dynamics, OTS, Marion, IL.	5	12	25		1	Initial	6	6	24	30	
							Reorder	3	6	24	30	
							Initial					
							Reorder					
							Initial					
							Reorder					
							Initial					
							Reorder					
							Initial					
							Reorder					

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

Date: February 2008

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

P-1 Item Nomenclature  
CARTRIDGE 81MM IMP TRNG FULL RANGE M879 (E69600)

Program Elements for Code B Items:

Code:  
A

Other Related Program Elements:

	Prior Years	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013	To Complete	Total Prog
Proc Qty	154	37	90	139	135	135	139	139		968
Gross Cost	40.1	5.0	21.3	25.5	25.4	25.8	26.8	27.3		197.2
Less PY Adv Proc										
Plus CY Adv Proc										
Net Proc P1	40.1	5.0	21.3	25.5	25.4	25.8	26.8	27.3		197.2
Initial Spares										
Total Proc Cost	40.1	5.0	21.3	25.5	25.4	25.8	26.8	27.3		197.2
Flyaway U/C										
Weapon System Proc U/C										

**Description:**

The 81mm M879 Full Range Practice Cartridge (FRPC) is a US-developed, improved practice round for use in the M252, 81mm Mortar System. The practice cartridge provides realistic training in place of the M821A1/M889A1 High Explosive (HE) Cartridges. This round uses the M751 Point Detonating Practice Fuze which simulates the M734A1 fuze and can be set for training purposes to the required fuze functioning mode for the fire mission. The M751 fuze detonates upon impact and produces a flash, bang, and smoke signature that gives the forward observer the ability to adjust fire. The M879 Full Range Practice Cartridge consists of a steel body with an inert concrete payload. This item is Code A, approved for service use.

**Justification:**

This is a training unique item. The FY 2009 procurement supports annual training requirements and builds a depot level in accordance with the Army's procurement goals.

TYPE CLASSIFICATION DATE: August 1986

Exhibit P-5, Weapon AMMO Cost Analysis	Appropriation/Budget Activity/Serial No: Procurement of Ammunition, Army / 1 / Ammunition	P-1 Line Item Nomenclature: CARTRIDGE 81MM IMP TRNG FULL RANGE M879 (E69600)			Weapon System Type:			Date: February 2008		
AMMO Cost Elements	ID	FY 07			FY 08			FY 09		
	CD	Total Cost	Qty	Unit Cost	Total Cost	Qty	Unit Cost	Total Cost	Qty	Unit Cost
		\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000
<b>AMMUNITION HARDWARE</b>										
Load, Assemble, Pack (LAP)		833	37	23	2104	90	23	3348	139	24
*Fuze, Training		684	38	18	1781	93	19	2843	144	20
Shell Body		1518	38	40	3783	93	41	5971	144	41
*Ignition Cartridge		570	38	15	1514	93	16	2419	144	17
Propellant Charge		1582	151	11	3451	368	9	5448	569	10
*Fin Assembly		722	38	19	1867	93	20	2946	144	20
<b>SubTotal AMMO Hardware</b>		<b>5909</b>			<b>14500</b>			<b>22975</b>		
<b>Production Support Costs</b>										
Production Engineering		774			826			842		
Quality Assurance					207			211		
Acceptance Testing		276			965			1476		
<b>SubTotal Prod. Support</b>		<b>1050</b>			<b>1998</b>			<b>2529</b>		
<b>COST - Nonrecurring</b>										
*Government Furnished Material		-1976								
Materiel Change					4785					
<b>SubTotal COST - Nonrecurring</b>		<b>-1976</b>			<b>4785</b>					
<b>Total:</b>		<b>4983</b>		<b>135</b>	<b>21283</b>		<b>236</b>	<b>25504</b>		<b>183</b>

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

Date:  
February 2008

Appropriation/Budget Activity/Serial No: Procurement of Ammunition, Army/ 1/ Ammunition	Weapon System Type:	P-1 Line Item Nomenclature: CARTRIDGE 81MM IMP TRNG FULL RANGE M879 (E69600)								
WBS Cost Elements:	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY Units	Unit Cost \$000	Specs Avail Now?	Date Revsn Avail	RFP Issue Date
<b>Load, Assemble, Pack (LAP)</b>										
FY 2007	General Dynamics, OTS Marion, IL	SS/OPT	Picatinny, NJ	Apr 07	Apr 09	37	23	Yes		
FY 2008	General Dynamics, OTS Marion, IL	SS/OPT	Picatinny, NJ	Mar 08	Mar 10	90	23	Yes		
FY 2009	General Dynamics, OTS Marion, IL	SS/OPT	Picatinny, NJ	Mar 09	Mar 11	139	24	Yes		
<b>*Fuze, Training</b>										
FY 2007	*Government Furnished Material Picatinny Arsenal, NJ		Stock Issue			38	18	Yes		
FY 2008	Pocal Industries, Inc. Scranton, PA	SS/OPT	Picatinny, NJ	Mar 08	Feb 09	93	19	Yes		
FY 2009	Pocal Industries, Inc. Scranton, PA	SS/OPT	Picatinny, NJ	Mar 09	Mar 10	144	20	Yes		
<b>Shell Body</b>										
FY 2007	Medico Industries Inc. Wilkes-Barre, PA	SS/OPT	Picatinny, NJ	Mar 07	Mar 08	38	40	Yes		
FY 2008	Medico Industries Inc. Wilkes-Barre, PA	SS/OPT	Picatinny, NJ	Mar 08	Feb 09	93	41	Yes		
FY 2009	Medico Industries Inc. Wilkes-Barre, PA	SS/OPT	Picatinny, NJ	Mar 09	Feb 10	144	41	Yes		
<b>*Ignition Cartridge</b>										
FY 2007	*Government Furnished Material Picatinny Arsenal, NJ		Stock Issue			38	15	Yes		
FY 2008	Pocal Industries, Inc. Scranton, PA	SS/OPT	Picatinny, NJ	Mar 08	Feb 09	93	16	Yes		
FY 2009	Pocal Industries, Inc. Scranton, PA	SS/OPT	Picatinny, NJ	Mar 09	Feb 10	144	17	Yes		
<b>Propellant Charge</b>										
FY 2007	General Dynamics, OTS Marion, IL	SS/OPT	Picatinny, NJ	Jan 07	Feb 08	151	11	Yes		
FY 2008	General Dynamics, OTS Marion, IL	SS/OPT	Picatinny, NJ	Mar 08	Feb 09	368	9	Yes		
FY 2009	To Be Selected	C/FP	Picatinny, NJ	Mar 09	Feb 10	569	10	Yes		

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

Date:  
February 2008

Appropriation/Budget Activity/Serial No: Procurement of Ammunition, Army/ 1/ Ammunition			Weapon System Type:		P-1 Line Item Nomenclature: CARTRIDGE 81MM IMP TRNG FULL RANGE M879 (E69600)					
WBS Cost Elements:	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY Units	Unit Cost \$000	Specs Avail Now?	Date Revsn Avail	RFP Issue Date
<b>*Fin Assembly</b>										
FY 2007	*Government Furnished Material Picatinny Arsenal, NJ		Stock Issue			38	19	Yes		
FY 2008	To Be Selected	C/FP	Rock Island, IL	Mar 08	Feb 09	93	20	Yes		
FY 2009	To Be Selected	SS/OPT	Rock Island, IL	Mar 09	Feb 10	144	20	Yes		

REMARKS:



<b>FY 08 / 09 BUDGET PRODUCTION SCHEDULE</b>	P-1 ITEM NOMENCLATURE CARTRIDGE 81MM IMP TRNG FULL RANGE M879 (E69600)	Date: February 2008
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COST ELEMENTS						Fiscal Year 08													Fiscal Year 09													Later
M F R	FY	S E R V	PROC QTY Each	ACCEP PRIOR TO 1 OCT	BAL DUE AS OF 1 OCT	Calendar Year 08													Calendar Year 09													
						O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P			

Load, Assemble, Pack (LAP)																																
1	FY 07 &P	A	201	0	201													10	10	10	10	10	10	10	10	16	20	20	18			57
1	FY 08	A	90	0	90						A																					90
1	FY 09	A	139	0	139																				A							139
Total																																
			430		430													10	10	10	10	10	10	10	10	16	20	20	18			286
						O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P			

M F R	Name - Location	PRODUCTION RATES			Reached D+	MFR	ADMIN LEAD TIME		MFR After 1 Oct	TOTAL After 1 Oct	REMARKS	
		MIN	1-8-5	MAX			1	Prior 1 Oct				After 1 Oct
								Initial				Reorder
1	General Dynamics, OTS, Marion, IL	5	15	25		1	6	6	24	30		
							3	6	24	30		



<b>FY 12 / 13 BUDGET PRODUCTION SCHEDULE</b>	P-1 ITEM NOMENCLATURE CARTRIDGE 81MM IMP TRNG FULL RANGE M879 (E69600)	Date: February 2008
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COST ELEMENTS					Fiscal Year 12														Fiscal Year 13														Later	
M F R	FY	S E R V	PROC QTY Each	ACCEP PRIOR TO 1 OCT	BAL DUE AS OF 1 OCT	Calendar Year 12														Calendar Year 13														
						O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P					

Load, Assemble, Pack (LAP)																														
1	FY 07 &P	A	201	201																										0
1	FY 08	A	90	90																										0
1	FY 09	A	139	105	34	15	15	4																						0
Total					34	15	15	4																						
					O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P		

M F R	Name - Location	PRODUCTION RATES			Reached D+	MFR	ADMIN LEAD TIME		MFR After 1 Oct	TOTAL After 1 Oct	REMARKS
		MIN	1-8-5	MAX			Prior 1 Oct	After 1 Oct			
				1							
1	General Dynamics, OTS, Marion, IL	5	15	25		1	6	6	24	30	
							3	6	24	30	

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

Date: February 2008

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

P-1 Item Nomenclature  
CTG, MORTAR, 81MM VISUAL LIGHT (VL) ILLUM M853A1 (E76100)

Program Elements for Code B Items:

Code:  
A

Other Related Program Elements:

	Prior Years	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013	To Complete	Total Prog
Proc Qty	94		10	11	11	12	11	11		160
Gross Cost	49.6		8.0	8.2	8.4	8.5	8.7	8.9		100.3
Less PY Adv Proc										
Plus CY Adv Proc										
Net Proc P1	49.6		8.0	8.2	8.4	8.5	8.7	8.9		100.3
Initial Spares										
Total Proc Cost	49.6		8.0	8.2	8.4	8.5	8.7	8.9		100.3
Flyaway U/C										
Weapon System Proc U/C										

**Description:**

The 81mm M853A1 Illumination Cartridge with Mechanical Time - Super Quick (MTSQ) Fuze is designed for use with the M252 Mortar Weapon System used by the Stryker Brigade Combat Teams as well as light infantry battalions including Airborne, Air Assault and Ranger. The round is used to illuminate targets during night operations and consists of a two-piece body filled with illuminating flare, M772 MTSQ fuze and tail assembly. It is range-matched to the 81mm high explosive (HE) and smoke cartridges. This item is Code A, approved for service use.

**Justification:**

This is a training standard item used in both training and war reserve. The FY 2009 procurement supports annual training requirements and builds a depot level in accordance with the Army's procurement goals.

TYPE CLASSIFICATION DATE: December 1986

Exhibit P-5, Weapon AMMO Cost Analysis	Appropriation/Budget Activity/Serial No: Procurement of Ammunition, Army / 1 / Ammunition	P-1 Line Item Nomenclature: CTG, MORTAR, 81MM VISUAL LIGHT (VL) ILLUM M853A1 (E76100)			Weapon System Type:	Date: February 2008				
AMMO Cost Elements	ID	FY 07			FY 08			FY 09		
	CD	Total Cost	Qty	Unit Cost	Total Cost	Qty	Unit Cost	Total Cost	Qty	Unit Cost
		\$000	x1000	\$	\$000	x1000	\$	\$000	x1000	\$
<b>HARDWARE</b>										
LOAD, ASSEMBLE, PACK					2873	10	297	1384	11	131
PROP CHG M219					107	40	3	384	44	9
CONTAINER ASSY M205					218	41	5			
IGNITION CARTRIDGE M752					248	10	25	213	11	19
*M9 FLAKE .010					12		53	10		42
FUZE M772					1977	10	197	2181	11	199
M29 FIN F/81MM					227	10	23	219	11	20
ILLUM CANDLE					1241	10	124	1288	11	118
81MM M853A1 PARACHUTE								438	11	40
81MM BODY TUBES F/M853A1								313	11	29
TAIL CONES FOR 81MM M853A1								176	12	15
PA162 FIBER CONTAINER F/81MM M853								51	11	5
PA157 METAL CONT F/81MM M853A1								143	4	39
SPLIT SLEEVES F/81MM M853A1								53	22	2
DROGUE PLATE F/81MM M853A1								22	11	2
<b>H/W SUBTOTAL</b>					<b>6903</b>			<b>6875</b>		
<b>PRODUCTION SUPPORT COSTS</b>										
PRODUCTION ENGINEERING					799			820		
QUALITY ASSURANCE					15			20		
ACCEPTANCE TESTING					283			215		
<b>PROD SUPPORT SUBTOTAL</b>					<b>1097</b>			<b>1055</b>		
<b>NON-RECURRING COSTS</b>										
GOVERNMENT FURNISHED MATERIAL					-12			-10		
TESTING								283		
<b>NON-RECURRING SUBTOTAL</b>					<b>-12</b>			<b>273</b>		
<b>Total:</b>					<b>7988</b>		<b>799</b>	<b>8203</b>		<b>779</b>

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

Date:  
February 2008

Appropriation/Budget Activity/Serial No: Procurement of Ammunition, Army/ 1/ Ammunition	Weapon System Type:	P-1 Line Item Nomenclature: CTG, MORTAR, 81MM VISUAL LIGHT (VL) ILLUM M853A1 (E76100)								
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>LOAD, ASSEMBLE, PACK</b>										
FY 2008	PINE BLUFF ARSENAL (PBA) PINE BLUFF, AR	SS/FP	ROCK ISLAND, IL	Dec 07	Sep 09	10	297	Y		
FY 2009	PINE BLUFF ARSENAL (PBA) PINE BLUFF, AR	SS/FP	ROCK ISLAND, IL	Dec 08	Sep 10	11	131	Y		
<b>PROP CHG M219</b>										
FY 2008	TO BE SELECTED	C/FP	ROCK ISLAND, IL	Mar 08	Dec 08	40	3	Y		
FY 2009	TO BE SELECTED	C/FP	ROCK ISLAND, IL	Mar 09	Nov 09	44	9	Y		
<b>CONTAINER ASSY M205</b>										
FY 2008	ARMTEC DEFENSE COACHELLA, CA	C/OPT	ROCK ISLAND, IL	Mar 08	Jul 08	41	5	Y		
<b>IGNITION CARTRIDGE M752</b>										
FY 2008	POCAL INDUSTRIES INC SCRANTON, PA	C/OPT	ROCK ISLAND, IL	Mar 08	Jun 08	10	25	Y		
FY 2009	POCAL INDUSTRIES INC SCRANTON, PA	C/OPT	ROCK ISLAND, IL	Mar 09	Jun 09	11	19	Y		
<b>*M9 FLAKE .010</b>										
FY 2008	STOCK ISSUE	N/A	N/A	N/A	N/A					
FY 2009	STOCK ISSUE	N/A	N/A	N/A	N/A					
<b>FUZE M772</b>										
FY 2008	JUNGHANS SCHRAMBERG, GERMANY	SS/OPT	ROCK ISLAND, IL	Dec 07	Nov 08	10	197	Y		
FY 2009	JUNGHANS SCHRAMBERG, GERMANY	SS/OPT	ROCK ISLAND, IL	Dec 08	Nov 09	11	199	Y		
<b>M29 FIN F/81MM</b>										
FY 2008	TO BE SELECTED	C/FP	ROCK ISLAND, IL	Dec 07	Jun 08	10	23	Y		
FY 2009	TO BE SELECTED	C/FP	ROCK ISLAND, IL	Dec 08	Jun 09	11	20	Y		
<b>ILLUM CANDLE</b>										
FY 2008	CRANE AAA CRANE, IN	SS/FP	ROCK ISLAND, IL	Dec 07	Aug 08	10	124	Y		
FY 2009	CRANE AAA CRANE, IN	SS/FP	ROCK ISLAND, IL	Dec 08	Aug 09	11	118	Y		
<b>81MM M853A1 PARACHUTE</b>										

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

Date:  
February 2008

Appropriation/Budget Activity/Serial No: Procurement of Ammunition, Army/ 1/ Ammunition		Weapon System Type:	P-1 Line Item Nomenclature: CTG, MORTAR, 81MM VISUAL LIGHT (VL) ILLUM M853A1 (E76100)							
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
FY 2009 <b>81MM BODY TUBES F/M853A1</b>	TO BE SELECTED	C/FP	ROCK ISLAND, IL	Dec 08	Dec 09	11	40	Y		
FY 2009 <b>TAIL CONES FOR 81MM M853A1</b>	TO BE SELECTED	C/FP	ROCK ISLAND, IL	Dec 08	Sep 09	11	29	Y		
FY 2009 <b>PA162 FIBER CONTAINER F/81MM M853</b>	TO BE SELECTED	C/FP	ROCK ISLAND, IL	Dec 08	Sep 09	12	15	Y		
FY 2009 <b>PA157 METAL CONT F/81MM M853A1</b>	TO BE SELECTED	C/FP	ROCK ISLAND, IL	Dec 08	Sep 09	11	5	Y		
FY 2009 <b>SPLIT SLEEVES F/81MM M853A1</b>	TO BE SELECTED	C/FP	ROCK ISLAND, IL	Dec 08	Sep 09	4	39	Y		
FY 2009 <b>DROGUE PLATE F/81MM M853A1</b>	TO BE SELECTED	C/FP	ROCK ISLAND, IL	Dec 08	Dec 09	22	2	Y		
FY 2009	TO BE SELECTED	C/FP	ROCK ISLAND, IL	Dec 08	Sep 09	11	2	Y		

REMARKS: \* GOVERNMENT FURNISHED MATERIAL





<b>FY 10 / 11 BUDGET PRODUCTION SCHEDULE</b>	P-1 ITEM NOMENCLATURE CTG, MORTAR, 81MM VISUAL LIGHT (VL) ILLUM M853A1 (E76100)	Date: February 2008
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COST ELEMENTS						Fiscal Year 10														Fiscal Year 11														Later
M F R	FY	S E R V	PROC QTY x1000	ACCEP PRIOR TO 1 OCT	BAL DUE AS OF 1 OCT	Calendar Year 10														Calendar Year 11														
						O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P					

LOAD, ASSEMBLE, PACK																														
1	FY 07 P	A	12	12																										0
1	FY 08	A	10	10																										0
1	FY 09	A	11	0	11													11												0
1	FY 07 P	MC	40	40																										0
1	FY 07	MC	53	53																										0
1	FY 08	MC	4	4																										0
Total			130	119	11													11												
						O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	

M F R	Name - Location	PRODUCTION RATES			Reached D+	MFR	ADMIN LEAD TIME		MFR After 1 Oct	TOTAL After 1 Oct	REMARKS	
		MIN	1-8-5	MAX			Prior 1 Oct	After 1 Oct				
1	PINE BLUFF ARSENAL (PBA), PINE BLUFF, AR	9	35	87		1	Initial	6	3	21	24	
							Reorder	6	3	21	24	
							Initial					
							Reorder					
							Initial					
							Reorder					
							Initial					
							Reorder					
							Initial					
							Reorder					

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

Date: February 2008

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

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

Program Elements for Code B Items:

Code:

Other Related Program Elements:

	Prior Years	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013	To Complete	Total Prog
Proc Qty										
Gross Cost	1358.2	42.3	110.8	117.6	124.7	116.1	120.4	123.8		2113.9
Less PY Adv Proc										
Plus CY Adv Proc										
Net Proc P1	1358.2	42.3	110.8	117.6	124.7	116.1	120.4	123.8		2113.9
Initial Spares										
Total Proc Cost	1358.2	42.3	110.8	117.6	124.7	116.1	120.4	123.8		2113.9
Flyaway U/C										
Weapon System Proc U/C										

**Description:**

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

FY 2007 funding total includes \$0 received in GWOT supplemental.

FY 2008 funding total includes \$0 received in The Consolidated Appropriations Act, 2008 (P.L. 110-161).

FY 2008 funding totals do not include \$0 previously requested for current FY 2008 GWOT requirements.

Exhibit P-5, Weapon AMMO Cost Analysis	Appropriation/Budget Activity/Serial No: Procurement of Ammunition, Army / 1 / Ammunition		P-1 Line Item Nomenclature: CTG, MORTAR, 120MM, ALL TYPES (E25500)			Weapon System Type:		Date: February 2008			
AMMO Cost Elements		ID CD	FY 07			FY 08			FY 09		
			Total Cost	Qty	Unit Cost	Total Cost	Qty	Unit Cost	Total Cost	Qty	Unit Cost
			\$000	x1000	\$	\$000	x1000	\$	\$000	x1000	\$
E25502 120MM HE M933A1 W/PD FUZE			14326	28	512	26300	49	537	27087	50	542
E25503 120MM VL ILLUM M930 W/MTSQ Fuze						13757	10	1376	15734	13	1210
E25507 120MM PRACTICE M931			15433	55	281	53963	157	344	56816	166	342
E91500 120MM IR ILLUM M983			12212	7	1745	15208	14	1086	16270	13	1252
E91300 120MM WP Smoke M929A1			316			1612	2	806	1694	1	1694
<b>Total:</b>			<b>42287</b>			<b>110840</b>			<b>117601</b>		

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

Date: February 2008

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

P-1 Item Nomenclature  
CTG MORTAR 120MM HE M933 W/PD FUZE (E25502)

Program Elements for Code B Items:

Code:  
A

Other Related Program Elements:

	Prior Years	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013	To Complete	Total Prog
Proc Qty	410	28	49	50	50	50	52	53		742
Gross Cost	172.9	14.3	26.3	27.1	27.7	28.3	30.0	30.7		357.3
Less PY Adv Proc										
Plus CY Adv Proc										
Net Proc P1	172.9	14.3	26.3	27.1	27.7	28.3	30.0	30.7		357.3
Initial Spares										
Total Proc Cost	172.9	14.3	26.3	27.1	27.7	28.3	30.0	30.7		357.3
Flyaway U/C										
Weapon System Proc U/C										

**Description:**

The 120mm M933 High Explosive (HE) Cartridge with point detonating fuze is designed for use with the M120/M121 120mm Battalion Mortar System, currently fielded to all Armor and Mechanized Infantry units and for the Soltam Recoiling Mortar System that is planned for the Stryker Brigade Combat Teams. The round is used against personnel and materiel providing both fragmentation and blast effect. It consists of a point detonating fuze, tail assembly, and projectile body with composition B explosive fill. This item is Code A, approved for service use.

**Justification:**

This is a training standard item used in both training and combat. The FY 2009 procurement supports annual training and builds a war reserve in accordance with the Army's procurement goals.

TYPE CLASSIFICATION DATE: June 1996

<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 M933 W/PD FUZE (E25502)			Weapon System Type:		Date: February 2008		
<b>AMMO Cost Elements</b>		ID CD	<b>FY 07</b>			<b>FY 08</b>			<b>FY 09</b>		
			Total Cost \$000	Qty x1000	Unit Cost \$	Total Cost \$000	Qty x1000	Unit Cost \$	Total Cost \$000	Qty x1000	Unit Cost \$
<b>AMMUNITION HARDWARE</b>											
Load, Assemble, Pack (LAP)			2071	28	75	3967	49	81	4114	50	83
Fuze, M783 PD			3854	29	134	9588	51	188	9847	52	191
Shell Body			3049	29	106	5508	51	108	5671	52	110
Ignition Cartridge			623	29	22	1020	51	20	1083	52	21
Propellant Charge			1753	113	15	3216	201	16	3370	203	17
Fin Assembly			536	29	18	969	51	19	1015	52	20
Fuze Adapter			306	29	11	561	51	11	567	52	11
<b>SubTotal AMMO Hardware</b>			<b>12192</b>			<b>24829</b>			<b>25667</b>		
<b>Production Support Costs</b>											
Production Engineering			1476			629			643		
Quality Assurance			321			249			172		
Proof and Acceptance			337			593			605		
<b>SubTotal Prod. Support</b>			<b>2134</b>			<b>1471</b>			<b>1420</b>		
<b>Total:</b>			<b>14326</b>		<b>512</b>	<b>26300</b>		<b>537</b>	<b>27087</b>		<b>542</b>

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

Date:  
February 2008

Appropriation/Budget Activity/Serial No: Procurement of Ammunition, Army/ 1/ Ammunition	Weapon System Type:	P-1 Line Item Nomenclature: CTG MORTAR 120MM HE M933 W/PD FUZE (E25502)								
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>Load, Assemble, Pack (LAP)</b>										
FY 2007	General Dynamics, OTS Marion, IL	SS/OPT	Picatinny, NJ	Feb 07	Feb 09	28	75	Yes		
FY 2008	General Dynamics, OTS Marion, IL	SS/OPT	Picatinny, NJ	Mar 08	Mar 10	49	81	Yes		
FY 2009	General Dynamics, OTS Marion, IL	SS/OPT	Picatinny, NJ	Mar 09	Mar 11	50	83	Yes		
<b>Fuze, M783 PD</b>										
FY 2007	L3-KDI Cincinnati, OH	SS/OPT	Picatinny, NJ	Jan 07	Dec 07	29	134	Yes		
FY 2008	General Dynamics, OTS Marion, IL	C/FP	Picatinny, NJ	Jul 08	Jun 09	51	188	Yes		
FY 2009	General Dynamics, OTS Marion, IL	SS/OPT	Picatinny, NJ	Mar 09	Feb 10	52	191	Yes		
<b>Shell Body</b>										
FY 2007	General Dynamics, OTS Marion, IL	C/FP	Picatinny, NJ	Dec 07	Nov 08	29	106	Yes		
FY 2008	General Dynamics, OTS Marion, IL	SS/OPT	Picatinny, NJ	Mar 08	Feb 09	51	108	Yes		
FY 2009	General Dynamics, OTS Marion, IL	SS/OPT	Picatinny, NJ	Mar 09	Feb 10	52	110	Yes		
<b>Ignition Cartridge</b>										
FY 2007	Pocal Industries, Inc. Scranton, PA	C/FP	Picatinny, NJ	Apr 07	Jan 08	29	22	Yes		
FY 2008	Pocal Industries, Inc. Scranton, PA	SS/OPT	Picatinny, NJ	Mar 08	Feb 09	51	20	Yes		
FY 2009	Pocal Industries, Inc. Scranton, PA	SS/OPT	Picatinny, NJ	Mar 09	Feb 10	52	21	Yes		
<b>Propellant Charge</b>										
FY 2007	Armtec Defense Products Milan, TN	SS/OPT	Picatinny, NJ	Mar 07	Feb 08	113	15	Yes		
FY 2008	Armtec Defense Products Milan, TN	SS/OPT	Picatinny, NJ	Mar 08	Feb 09	201	16	Yes		
FY 2009	Armtec Defense Products Milan, TN	C/FP	Picatinny, NJ	Mar 09	Feb 10	203	17	Yes		

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

Date:  
February 2008

Appropriation/Budget Activity/Serial No: Procurement of Ammunition, Army/ 1/ Ammunition		Weapon System Type:	P-1 Line Item Nomenclature: CTG MORTAR 120MM HE M933 W/PD FUZE (E25502)							
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>Fin Assembly</b>										
FY 2007	MaTech Hebron, MD	SS/OPT	Picatinny, NJ	Mar 07	Feb 08	29	18	Yes		
FY 2008	MaTech Hebron, MD	SS/OPT	Picatinny, NJ	Mar 08	Feb 09	51	19	Yes		
FY 2009	MaTech Hebron, MD	SS/OPT	Picatinny, NJ	Mar 09	Feb 10	52	20	Yes		
<b>Fuze Adapter</b>										
FY 2007	MSI Salisbury, MD	SS/OPT	Picatinny, NJ	Jan 07	Dec 08	29	11			
FY 2008	MSI Salisbury, MD	SS/OPT	Picatinny, NJ	Mar 08	Feb 09	51	11	Yes		
FY 2009	MSI Salisbury, MD	SS/OPT	Picatinny, NJ	Mar 09	Feb 10	52	11	Yes		

REMARKS:







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

Date: February 2008

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

P-1 Item Nomenclature  
CTG MORTAR 120MM VISUAL LIGHT ILLUM M930 W/MTSQ FZ (E25503)

Program Elements for Code B Items:

Code:  
A

Other Related Program Elements:

	Prior Years	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013	To Complete	Total Prog
Proc Qty	80		10	13	13	15	15	15		161
Gross Cost	189.2		13.8	15.7	17.0	18.3	18.7	19.2		291.9
Less PY Adv Proc										
Plus CY Adv Proc										
Net Proc P1	189.2		13.8	15.7	17.0	18.3	18.7	19.2		291.9
Initial Spares										
Total Proc Cost	189.2		13.8	15.7	17.0	18.3	18.7	19.2		291.9
Flyaway U/C										
Weapon System Proc U/C										

**Description:**

The 120mm M930 Illumination Cartridge with Mechanical Time - Super Quick (MTSQ) 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, and for the Soltam Recoiling Mortar System which is planned for the Stryker Brigade Combat Teams. The round is used to illuminate targets during night operations. It consists of a 2-piece body filled with an illuminating flare, M776 MTSQ fuze and tail assembly. It bursts over a target producing one million candela of illumination. This round is ballistically similar to the 120mm high explosive (HE) and smoke cartridges. This item is Code A, approved for service use.

**Justification:**

This is a training standard item used in both training and combat. The FY 2009 procurement supports training and builds a war reserve inventory in accordance with the Army's procurement goals.

TYPE CLASSIFICATION DATE: March 2003

<b>AMMO Cost Elements</b>		ID CD	<b>FY 07</b>			<b>FY 08</b>			<b>FY 09</b>		
			Total Cost	Qty	Unit Cost	Total Cost	Qty	Unit Cost	Total Cost	Qty	Unit Cost
			\$000	x1000	\$	\$000	x1000	\$	\$000	x1000	\$
<b>HARDWARE</b>											
Load, Assemble, and Pack						1936	10	188	2450	13	192
Fuze, MTSQ, M776						1702	11	159	2153	13	162
Shell Body						3311	11	309	4189	13	315
Ignition Cartridge M1020						218	11	20	279	13	21
Propellant Charge M234						687	42	16	869	52	17
Fin Assembly M31						203	11	19	259	13	20
Visible Light Canister						2577	11	240	3260	13	245
Parachute Assembly						471	11	44	596	13	45
Fiber Container PA167						100	11	9	126	13	9
Overpack Container PA154						184	5	34	233	7	35
<b>SubTotal AMMO HARDWARE</b>						<b>11389</b>			<b>14414</b>		
<b>PRODUCTION SUPPORT COSTS</b>											
Production Engineering						1600			1000		
Quality Assurance						523			100		
Acceptance Testing						245			220		
<b>SUBTOTAL PRODUCTION SUPPORT</b>						<b>2368</b>			<b>1320</b>		
<b>Total:</b>						<b>13757</b>		<b>1376</b>	<b>15734</b>		<b>1210</b>

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

Date:  
February 2008

Appropriation/Budget Activity/Serial No: Procurement of Ammunition, Army/ 1/ Ammunition	Weapon System Type:	P-1 Line Item Nomenclature: CTG MORTAR 120MM VISUAL LIGHT ILLUM M930 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 \$000	Specs Avail Now?	Date Revsn Avail	RFP Issue Date
<b>Load, Assemble, and Pack</b>										
FY 2008	Pine Bluff Arsenal Pine Bluff, AR	SS/FP	Picatinny, NJ	Mar 08	Mar 10	10	188	Yes		
FY 2009	Pine Bluff Arsenal Pine Bluff, AR	SS/FP	Picatinny, NJ	Mar 09	Mar 11	13	192	Yes		
<b>Fuze, MTSQ, M776</b>										
FY 2008	Junghans AG Schramberg, Germany	SS/OPT	Picatinny, NJ	Mar 08	Dec 08	11	159	Yes		
FY 2009	Junghans AG Schramberg, Germany	SS/OPT	Picatinny, NJ	Mar 09	Dec 09	13	162	Yes		
<b>Shell Body</b>										
FY 2008	General Dynamics OTS Marion, IL	SS/OPT	Picatinny, NJ	Mar 08	Feb 09	11	309	Yes		
FY 2009	General Dynamics OTS Marion, IL	SS/OPT	Picatinny, NJ	Mar 09	Feb 10	13	315	Yes		
<b>Ignition Cartridge M1020</b>										
FY 2008	POCAL Industries Scranton, PA	SS/OPT	Picatinny, NJ	Mar 08	Feb 09	11	20	Yes		
FY 2009	POCAL Industries Scranton, PA	SS/OPT	Picatinny, NJ	Mar 09	Feb 10	13	21	Yes		
<b>Propellant Charge M234</b>										
FY 2008	Armttec Defense Products Milan, TN	SS/OPT	Picatinny, NJ	Mar 08	Feb 09	42	16	Yes		
FY 2009	Armttec Defense Products Milan, TN	SS/OPT	Picatinny, NJ	Mar 09	Feb 10	52	17	Yes		
<b>Fin Assembly M31</b>										
FY 2008	MaTech Hebron, MD	SS/OPT	Picatinny, NJ	Mar 08	Feb 09	11	19	Yes		
FY 2009	MaTech Hebron, MD	SS/OPT	Picatinny, NJ	Mar 09	Feb 10	13	20	Yes		
<b>Visible Light Canister</b>										
FY 2008	Crane AAA Crane, IN	SS/FP	Picatinny, NJ	Mar 08	Feb 09	11	240	Yes		
FY 2009	Crane AAA	SS/FP	Picatinny, NJ	Mar 09	Feb 10	13	245	Yes		

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

Date:  
February 2008

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
Appropriation/Budget Activity/Serial No: Procurement of Ammunition, Army/ 1/ Ammunition										
		Weapon System Type:	P-1 Line Item Nomenclature: CTG MORTAR 120MM VISUAL LIGHT ILLUM M930 W/MTSQ FZ (E25503)							
<b>Parachute Assembly</b> FY 2008	Crane, IN  North American Aerodynamics Roxboro, NC	SS/FP	Picatinny, NJ	Mar 08	Feb 09	11	44	Yes		
FY 2009	North American Aerodynamics Roxboro, NC	SS/FP	Picatinny, NJ	Mar 09	Feb 10	13	45	Yes		
<b>Fiber Container PA167</b> FY 2008	United Ammo Container Milan, TN	SS/OPT	Picatinny, NJ	Mar 08	Feb 09	11	9	Yes		
FY 2009	To Be Selected	C/FP	Picatinny, NJ	Mar 09	Feb 10	13	9	Yes		
<b>Overpack Container PA154</b> FY 2008	BWAY Atlanta, GA	SS/OPT	Picatinny, NJ	Mar 08	Feb 09	5	34	Yes		
FY 2009	To Be Selected	C/FP	Picatinny, NJ	Mar 09	Feb 10	7	35	Yes		

REMARKS:

<b>FY 08 / 09 BUDGET PRODUCTION SCHEDULE</b>	P-1 ITEM NOMENCLATURE CTG MORTAR 120MM VISUAL LIGHT ILLUM M930 W/MTSQ FZ (E25503)	Date: February 2008
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COST ELEMENTS						Fiscal Year 08												Fiscal Year 09												Later
M F R	FY	S E R V	PROC QTY x1000	ACCEP PRIOR TO 1 OCT	BAL DUE AS OF 1 OCT	Calendar Year 08												Calendar Year 09												
						O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	
Load, Assemble, and Pack																														
1	FY 07 &P	A	19	0	19																									0
1	FY 08	A	10	0	10																									10
1	FY 09	A	13	0	13																									13
					42																									23
						O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	

M F R	Name - Location	PRODUCTION RATES			Reached D+	MFR	ADMIN LEAD TIME		MFR After 1 Oct	TOTAL After 1 Oct	REMARKS	
		MIN	1-8-5	MAX			Prior 1 Oct	After 1 Oct				
1	Pine Bluff Arsenal, Pine Bluff, AR	5	10	30		1	Initial	6	6	24	30	
							Reorder	3	6	24	30	
							Initial					
							Reorder					
							Initial					
							Reorder					
							Initial					
							Reorder					

<b>FY 10 / 11 BUDGET PRODUCTION SCHEDULE</b>	P-1 ITEM NOMENCLATURE CTG MORTAR 120MM VISUAL LIGHT ILLUM M930 W/MTSQ FZ (E25503)	Date: February 2008
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COST ELEMENTS						Fiscal Year 10												Fiscal Year 11												Later
M F R	FY	S E R V	PROC QTY x1000	ACCEP PRIOR TO 1 OCT	BAL DUE AS OF 1 OCT	Calendar Year 10												Calendar Year 11												
						O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	

Load, Assemble, and Pack																														
1	FY 07 &P	A	19	19																										0
1	FY 08	A	10	0	10					10																				0
1	FY 09	A	13	0	13																				13					0
Total																														
			42	19	23					10																				
						O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	

M F R	Name - Location	PRODUCTION RATES			Reached D+	MFR	ADMIN LEAD TIME		MFR After 1 Oct	TOTAL After 1 Oct	REMARKS	
		MIN	1-8-5	MAX			Prior 1 Oct	After 1 Oct				
1	Pine Bluff Arsenal, Pine Bluff, AR	5	10	30		1	Initial	6	6	24	30	
							Reorder	3	6	24	30	
							Initial					
							Reorder					
							Initial					
							Reorder					
							Initial					
							Reorder					
							Initial					
							Reorder					

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

Date: February 2008

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

P-1 Item Nomenclature  
CTG, MORTAR, 120MM PRACTICE, M931 (E25507)

Program Elements for Code B Items:

Code:  
A

Other Related Program Elements:

	Prior Years	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013	To Complete	Total Prog
Proc Qty	508	55	157	166	172	136	139	143		1476
Gross Cost	210.4	15.4	54.0	56.8	60.1	48.6	50.3	52.2		548.0
Less PY Adv Proc										
Plus CY Adv Proc										
Net Proc P1	210.4	15.4	54.0	56.8	60.1	48.6	50.3	52.2		548.0
Initial Spares										
Total Proc Cost	210.4	15.4	54.0	56.8	60.1	48.6	50.3	52.2		548.0
Flyaway U/C										
Weapon System Proc U/C										

**Description:**

The 120mm M931 Full Range Practice (FRP) round is a 120mm Training Cartridge used to simulate the M934 High Explosive (HE) round on the 120mm M121 Mortar System. The M931 FRP round is designed to provide realistic training for 120mm mortar crews at reduced cost. The M931 FRP is ballistically similar to the M934 HE cartridge and matches the M934 HE in size, weight and shape. The M931 FRP is equipped with the M781 Practice Fuze, a facsimile of the M734A1 multi-option fuze. The M781 fuze produces a flash, bang and smoke signature that provides audio/visual feedback to the mortar crew and forward observer. This item is Code A, approved for service use.

**Justification:**

This is a training unique item not used in combat. The FY 2009 procurement supports annual training and builds a depot level in accordance with the Army's procurement goals.

TYPE CLASSIFICATION DATE: August 1996



<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 PRACTICE, M931 (E25507)			Weapon System Type:		Date: February 2008	
<b>AMMO Cost Elements</b>		ID CD	<b>FY 07</b>			<b>FY 08</b>			<b>FY 09</b>		
			Total Cost \$000	Qty Each	Unit Cost \$000	Total Cost \$000	Qty Each	Unit Cost \$000	Total Cost \$000	Qty Each	Unit Cost \$000
<b>HARDWARE</b>											
Load, Assemble, Pack (LAP)			4620	55	84	13973	157	89	14960	166	90
Fuze, Training			1028	57	18	3110	163	19	3460	173	20
*Shell Body			5415	57	95	15648	163	96	16954	173	98
Ignition Cartridge			1257	57	22	3309	163	20	3633	173	21
Propellant Charge			3206	229	14	9645	643	15	10215	681	15
Fin Assembly			1028	57	18	3097	163	19	1730	173	10
Fuze Adapter			628	57	11	1793	163	11	1938	173	11
<b>SubTotal AMMO HARDWARE</b>			<b>17182</b>			<b>50575</b>			<b>52890</b>		
<b>PRODUCTION SUPPORT COST</b>											
Production Engineering			1866			1874			1900		
Quality Assurance			600			214			307		
Acceptance Testing			1200			1300			1719		
<b>SUBTOTAL PRODUCTION SUPPORT</b>			<b>3666</b>			<b>3388</b>			<b>3926</b>		
<b>NONRECURRING COSTS</b>											
*Government Furnished Material			-5415								
<b>SUBTOTAL NONRECURRING</b>			<b>-5415</b>								
<b>Total:</b>			<b>15433</b>		<b>281</b>	<b>53963</b>		<b>344</b>	<b>56816</b>		<b>342</b>

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

Date:  
February 2008

Appropriation/Budget Activity/Serial No: Procurement of Ammunition, Army/ 1/ Ammunition	Weapon System Type:	P-1 Line Item Nomenclature: CTG, MORTAR, 120MM PRACTICE, M931 (E25507)								
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>Load, Assemble, Pack (LAP)</b>										
FY 2007	General Dynamics, OTS Marion IL	SS/OPT	Picatinny, NJ	Feb 07	Feb 09	55	84	Yes		
FY 2008	General Dynamics, OTS Marion IL	SS/OPT	Picatinny, NJ	Mar 08	Mar 10	157	89	Yes		
FY 2009	General Dynamics, OTS Marion IL	SS/OPT	Picatinny, NJ	Mar 09	Mar 11	166	90	Yes		
<b>Fuze, Training</b>										
FY 2007	Pocal Industries Inc. Scranton PA	SS/OPT	Picatinny, NJ	Feb 07	Jan 08	57	18	Yes		
FY 2008	Pocal Industries Inc. Scranton PA	SS/OPT	Picatinny, NJ	Mar 08	Feb 09	163	19	Yes		
FY 2009	Pocal Industries Inc. Scranton PA	SS/OPT	Picatinny, NJ	Mar 09	Feb 10	173	20	Yes		
<b>*Shell Body</b>										
FY 2007	Government Furnished Material Picatinny Arsenal, NJ		Stock Issue			57	95	Yes		
FY 2008	General Dynamics, OTS Marion IL	SS/OPT	Picatinny, NJ	Mar 08	Feb 09	163	96	Yes		
FY 2009	General Dynamics, OTS Marion IL	SS/OPT	Picatinny, NJ	Mar 09	Feb 10	173	98	Yes		
<b>Ignition Cartridge</b>										
FY 2007	Pocal Industries Inc. Scranton PA	C/FP	Picatinny, NJ	Apr 07	Mar 08	57	22	Yes		
FY 2008	Pocal Industries Inc. Scranton PA	SS/OPT	Picatinny, NJ	Mar 08	Feb 09	163	20	Yes		
FY 2009	Pocal Industries Inc. Scranton PA	SS/OPT	Picatinny, NJ	Mar 09	Feb 10	173	21	Yes		
<b>Propellant Charge</b>										
FY 2007	Armtec Defense Products Milan, TN	SS/OPT	Picatinny, NJ	Mar 07	Feb 08	229	14	Yes		
FY 2008	Armtec Defense Products Milan, TN	SS/OPT	Picatinny, NJ	Mar 08	Feb 09	643	15	Yes		
FY 2009	Armtec Defense Products Milan, TN	C/FP	Picatinny, NJ	Mar 09	Feb 10	681	15	Yes		

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

Date:  
February 2008

Appropriation/Budget Activity/Serial No: Procurement of Ammunition, Army/ 1/ Ammunition		Weapon System Type:	P-1 Line Item Nomenclature: CTG, MORTAR, 120MM PRACTICE, M931 (E25507)							
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>Fin Assembly</b>										
FY 2007	MaTech Hebron, MD	SS/OPT	Picatinny, NJ	Mar 07	Feb 08	57	18	Yes		
FY 2008	MaTech Hebron, MD	SS/OPT	Picatinny, NJ	Mar 08	Feb 09	163	19	Yes		
FY 2009	MaTech Hebron, MD	SS/OPT	Picatinny, NJ	Mar 09	Feb 10	173	10	Yes		

REMARKS:

<b>FY 08 / 09 BUDGET PRODUCTION SCHEDULE</b>	P-1 ITEM NOMENCLATURE CTG, MORTAR, 120MM PRACTICE, M931 (E25507)	Date: February 2008
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COST ELEMENTS					Fiscal Year 08													Fiscal Year 09													Later		
M F R	FY	S E R V	PROC QTY x1000	ACCEP PRIOR TO 1 OCT	BAL DUE AS OF 1 OCT	Calendar Year 08													Calendar Year 09														
						O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P				
Load, Assemble, Pack (LAP)																																	
1	FY 07 &P	A	212	-157	212												10	10	10	7	10	10	10	25	25	25	20	10	10	10	10	10	
1	FY 08	A	157	0	157						A																						157
1	FY 09	A	166	0	166																					A							166
Total					535	-157	535										10	10	10	7	10	10	10	25	25	25	20	10	10	10	10	10	333
					O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P					

M F R	Name - Location	PRODUCTION RATES			Reached D+	MFR	ADMIN LEAD TIME		MFR After 1 Oct	TOTAL After 1 Oct	REMARKS	
		MIN	1-8-5	MAX			1	Prior 1 Oct				After 1 Oct
								Initial				Reorder
1	General Dynamics, OTS, Marion, IL	5	15	30		1	6	6	24	30		



<b>FY 12 / 13 BUDGET PRODUCTION SCHEDULE</b>	P-1 ITEM NOMENCLATURE CTG, MORTAR, 120MM PRACTICE, M931 (E25507)	Date: February 2008
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COST ELEMENTS					Fiscal Year 12														Fiscal Year 13														Later	
M F R	FY	S E R V	PROC QTY x1000	ACCEP PRIOR TO 1 OCT	BAL DUE AS OF 1 OCT	Calendar Year 12														Calendar Year 13														
						O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P					

Load, Assemble, Pack (LAP)																														
1	FY 07 &P	A	212	55																										0
1	FY 08	A	157	157																										0
1	FY 09	A	166	105	61	15	25	21																						0
Total					535	317	61	15	25	21																				
					O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P		

M F R	Name - Location	PRODUCTION RATES			Reached D+	MFR	ADMIN LEAD TIME		MFR After 1 Oct	TOTAL After 1 Oct	REMARKS	
		MIN	1-8-5	MAX			Prior 1 Oct	After 1 Oct				
		1	Initial	Reorder			6	6				24
1	General Dynamics, OTS, Marion, IL	5	15	30		1	Initial	6	6	24	30	
							Reorder	3	6	24	30	
							Initial					
							Reorder					
							Initial					
							Reorder					
							Initial					
							Reorder					
							Initial					
							Reorder					

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

Date: February 2008

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

P-1 Item Nomenclature  
CTG, MORTAR, 120MM INFRARED (IR) ILLUM M983 (E91500)

Program Elements for Code B Items:

Code:  
A

Other Related Program Elements:

	Prior Years	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013	To Complete	Total Prog
Proc Qty	46	7	14	13	15	15	16	16		142
Gross Cost	84.9	12.2	15.2	16.3	18.1	18.9	19.5	19.7		204.8
Less PY Adv Proc										
Plus CY Adv Proc										
Net Proc P1	84.9	12.2	15.2	16.3	18.1	18.9	19.5	19.7		204.8
Initial Spares										
Total Proc Cost	84.9	12.2	15.2	16.3	18.1	18.9	19.5	19.7		204.8
Flyaway U/C										
Weapon System Proc U/C										

**Description:**

The 120mm M983 Infrared Illumination Cartridge with Mechanical Time - Super Quick (MTSQ) 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, and for the Soltam Recoiling Mortar System which is planned for the Stryker Brigade Combat Teams. 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 2-piece body filled with an illuminating flare, M776 Mechanical Time (MT) fuze and tail assembly. The round is ballistically similar to the 120mm High Explosive (HE) and smoke cartridges. This item is Code A, approved for service use.

**Justification:**

This is a training standard item used in both training and combat. The FY 2009 procurement supports annual training and builds a war reserve inventory in accordance with the Army's procurement goals.

TYPE CLASSIFICATION DATE: June 2000

Exhibit P-5, Weapon AMMO Cost Analysis	Appropriation/Budget Activity/Serial No: Procurement of Ammunition, Army / 1 / Ammunition	P-1 Line Item Nomenclature: CTG, MORTAR, 120MM INFRARED (IR) ILLUM M983 (E91500)			Weapon System Type:	Date: February 2008					
AMMO Cost Elements		ID CD	FY 07			FY 08			FY 09		
			Total Cost	Qty	Unit Cost	Total Cost	Qty	Unit Cost	Total Cost	Qty	Unit Cost
			\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000
<b>AMMUNITION HARDWARE</b>											
Load, Assemble, and Pack			1333	7	190	2620	14	194	2574	13	198
Fuze, MTSQ, M776			2852	18	156	2224	14	159	2149	13	162
Shell Body			2206	7	303	4326	14	309	4179	13	315
Ignition Cartridge M1020			160	7	22	280	14	20	279	13	21
Propellant Charge M234			437	29	15	880	55	16	889	52	17
Fin Assembly, M31			150	8	18	266	14	19	265	13	20
Infrared Canister			1718	7	236	3366	14	240	3251	13	245
Parachute Assembly			320	7	44	616	14	44	597	13	45
Fiber Container PA 167			66	7	9	126	14	9	119	13	9
Overpack Container PA154			122	4	33	241	7	34	232	7	35
<b>SUBTOTAL HARDWARE</b>			<b>9364</b>			<b>14945</b>			<b>14534</b>		
<b>PRODUCTION SUPPORT COSTS</b>											
Production Engineering			1500			105			1384		
Quality Assurance			998						117		
Acceptance Testing			350			158			235		
<b>SUBTOTAL PRODUCTION SUPPORT</b>			<b>2848</b>			<b>263</b>			<b>1736</b>		
<b>Total:</b>			<b>12212</b>		<b>1745</b>	<b>15208</b>		<b>1086</b>	<b>16270</b>		<b>1252</b>



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

Date:  
February 2008

Appropriation/Budget Activity/Serial No: Procurement of Ammunition, Army/ 1/ Ammunition	Weapon System Type:	P-1 Line Item Nomenclature: CTG, MORTAR, 120MM INFRARED (IR) ILLUM M983 (E91500)								
WBS Cost Elements:	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY x1000	Unit Cost \$000	Specs Avail Now?	Date Revsn Avail	RFP Issue Date
<b>Load, Assemble, and Pack</b>										
FY 2007	Pine Bluff Arsenal Pine Bluff, AR	SS/FP	Picatinny, NJ	Mar 07	Mar 09	7	190	Yes		
FY 2008	Pine Bluff Arsenal Pine Bluff, AR	SS/FP	Picatinny, NJ	Mar 08	Mar 10	14	194	Yes		
FY 2009	Pine Bluff Arsenal Pine Bluff, AR	SS/FP	Picatinny, NJ	Mar 09	Mar 11	13	198	Yes		
<b>Fuze, MTSQ, M776</b>										
FY 2007	Junghans AG Schramberg, Germany	SS/OPT	NAMSA, Luxemburg	Mar 06	Feb 07	18	156	Yes		
FY 2008	Junghans AG Schramberg, Germany	SS/OPT	NAMSA, Luxemburg	Mar 08	Feb 09	14	159	Yes		
FY 2009	Junghans AG Schramberg, Germany	SS/OPT	NAMSA, Luxemburg	Mar 09	Feb 10	13	162	Yes		
<b>Shell Body</b>										
FY 2007	General Dynamics OTS Marion, IL	C/FP	Picatinny, NJ	Dec 07	Nov 08	7	303	Yes		
FY 2008	General Dynamics OTS Marion, IL	SS/OPT	Picatinny, NJ	Mar 08	Feb 09	14	309	Yes		
FY 2009	General Dynamics OTS Marion, IL	SS/OPT	Picatinny, NJ	Mar 09	Feb 10	13	315	Yes		
<b>Ignition Cartridge M1020</b>										
FY 2007	POCAL Industries Scranton, PA	C/FP	Picatinny, NJ	Apr 07	Mar 08	7	22	Yes		
FY 2008	POCAL Industries Scranton, PA	SS/OPT	Picatinny, NJ	Mar 08	Feb 09	14	20	Yes		
FY 2009	POCAL Industries Scranton, PA	SS/OPT	Picatinny, NJ	Mar 09	Feb 10	13	21	Yes		
<b>Propellant Charge M234</b>										
FY 2007	Armtec Defense Products Milan, TN	SS/OPT	Picatinny, NJ	Mar 07	Feb 08	29	15	Yes		
FY 2008	Armtec Defense Products Milan, TN	SS/OPT	Picatinny, NJ	Mar 08	Feb 09	55	16	Yes		
FY 2009	Armtec Defense Products Milan, TN	SS/OPT	Picatinny, NJ	Mar 09	Feb 10	52	17	Yes		

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

Date:  
February 2008

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
Appropriation/Budget Activity/Serial No: Procurement of Ammunition, Army/ 1/ Ammunition										
		Weapon System Type:	P-1 Line Item Nomenclature: CTG, MORTAR, 120MM INFRARED (IR) ILLUM M983 (E91500)							
<b>Infrared Canister</b>										
FY 2007	Crane Army Ammunition Activity Crane, IN	SS/FP	Picatinny, NJ	Mar 07	Feb 08	7	236	Yes		
FY 2008	Crane Army Ammunition Activity Crane, IN	SS/FP	Picatinny, NJ	Mar 08	Feb 09	14	240	Yes		
FY 2009	Crane Army Ammunition Activity Crane, IN	SS/FP	Picatinny, NJ	Mar 09	Feb 10	13	245	Yes		
<b>Parachute Assembly</b>										
FY 2007	North American Aerodynamics Roxboro, NC	C/FP	Picatinny, NJ	Apr 07	Mar 08	7	44	Yes		
FY 2008	North American Aerodynamics Roxboro, NC	SS/OPT	Picatinny, NJ	Mar 08	Feb 09	14	44	Yes		
FY 2009	North American Aerodynamics Roxboro, NC	SS/OPT	Picatinny, NJ	Mar 09	Feb 10	13	45	Yes		
<b>Fiber Container PA 167</b>										
FY 2007	United Ammo Container Milan, TN	SS/OPT	Picatinny, NJ	Mar 07	Feb 08	7	9	Yes		
FY 2008	United Ammo Container Milan, TN	SS/OPT	Picatinny, NJ	Mar 08	Feb 09	14	9	Yes		
FY 2009	To Be Selected	SS/OPT	Picatinny, NJ	Mar 09	Feb 10	13	9	Yes		
<b>Overpack Container PA154</b>										
FY 2007	BWAY Atlanta, GA	SS/OPT	Picatinny, NJ	Mar 07	Feb 08	4	33	Yes		
FY 2008	BWAY Atlanta, GA	SS/OPT	Picatinny, NJ	Mar 08	Feb 09	7	34	Yes		
FY 2009	To Be Selected	SS/OPT	Picatinny, NJ	Mar 09	Feb 10	7	35	Yes		

REMARKS:



<b>FY 10 / 11 BUDGET PRODUCTION SCHEDULE</b>	P-1 ITEM NOMENCLATURE CTG, MORTAR, 120MM INFRARED (IR) ILLUM M983 (E91500)	Date: February 2008
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COST ELEMENTS						Fiscal Year 10													Fiscal Year 11													Later
M F R	FY	S E R V	PROC QTY x1000	ACCEP PRIOR TO 1 OCT	BAL DUE AS OF 1 OCT	Calendar Year 10													Calendar Year 11													
						O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P			

Load, Assemble, and Pack																														
1	FY 07 &P	A	24	7																										0
1	FY 08	A	14	0	14						14																			0
1	FY 09	A	13	0	13																					13				0
Total			51	7	27						14															13				
						O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	

M F R	Name - Location	PRODUCTION RATES			Reached D+	MFR	ADMIN LEAD TIME		MFR After 1 Oct	TOTAL After 1 Oct	REMARKS	
		MIN	1-8-5	MAX			Prior 1 Oct	After 1 Oct				
1	Pine Bluff Arsenal, Pine Bluff, AR	5	10	30		1	Initial	6	6	24	30	
							Reorder	3	6	24	30	
							Initial					
							Reorder					
							Initial					
							Reorder					
							Initial					
							Reorder					
							Initial					
							Reorder					

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

Date: February 2008

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

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

Program Elements for Code B Items:

Code:

Other Related Program Elements:

	Prior Years	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013	To Complete	Total Prog
Proc Qty										
Gross Cost	822.3	20.0	14.2	15.8	17.3	16.9	16.9	17.2		940.7
Less PY Adv Proc										
Plus CY Adv Proc										
Net Proc P1	822.3	20.0	14.2	15.8	17.3	16.9	16.9	17.2		940.7
Initial Spares										
Total Proc Cost	822.3	20.0	14.2	15.8	17.3	16.9	16.9	17.2		940.7
Flyaway U/C										
Weapon System Proc U/C										

**Description:**

This budget line includes CARTRIDGE, TANK, 105MM ALL TYPES.

FY 2007 funding total includes \$0 million received in GWOT supplemental.

FY 2008 funding total includes \$0 million received in The Consolidated Appropriations Act, 2008 (P.L. 110-161).

FY 2008 funding totals do not include \$0 previously requested for current FY 2008 GWOT 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: CTG TANK 105MM: ALL TYPES (E22203)			Weapon System Type:		Date: February 2008	
<b>AMMO Cost Elements</b>		ID	<b>FY 07</b>			<b>FY 08</b>			<b>FY 09</b>		
		CD	Total Cost	Qty	Unit Cost	Total Cost	Qty	Unit Cost	Total Cost	Qty	Unit Cost
			\$000	x1000	\$	\$000	x1000	\$	\$000	x1000	\$
E22300 CTG 105mm, HEP-TP M467A1			14704	13	1131	8171	4	2042	8167	4	2042
E24300 CTG 105MM HEP-T, W/Fuze Gun			493								
E24400 CTG 105MM APERS-T F/TANK GUN			4806	2	2403	6070	3	2037	7662	4	1916
<b>Total:</b>			<b>20003</b>			<b>14241</b>			<b>15829</b>		

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

Date: February 2008

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

P-1 Item Nomenclature  
CTG, 105MM, TP-T, M467A1 (E22300)

Program Elements for Code B Items:

Code:  
A

Other Related Program Elements:

	Prior Years	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013	To Complete	Total Prog
Proc Qty	387	13	4	4	4	4	4	4		424
Gross Cost	70.7	14.7	8.2	8.2	9.4	8.9	9.1	9.2		138.4
Less PY Adv Proc										
Plus CY Adv Proc										
Net Proc P1	70.7	14.7	8.2	8.2	9.4	8.9	9.1	9.2		138.4
Initial Spares										
Total Proc Cost	70.7	14.7	8.2	8.2	9.4	8.9	9.1	9.2		138.4
Flyaway U/C										
Weapon System Proc U/C										

**Description:**

The 105mm High Explosive Plastic Target Practice w/Tracer (HEP-TP-T) M467A1 cartridge is an inert round of ammunition fitted with a tracer for use by the Army's new Mobile Gun System (MGS) in gunnery qualification and training. It is similar in appearance and ballistically similar to the 105mm High Explosive Plastic w/Tracer (M393A3) tactical cartridge being procured for the MGS. This item is being procured as a non-developmental item in parallel with the high-explosive tactical cartridge. This item is Code A, approved for service use.

**Justification:**

This is a training unique item not used in combat. FY 2009 procurement supports annual training and builds a depot level in accordance with the Army's procurement goals.

TYPE CLASSIFICATION: August 2004

<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, TP-T, M467A1 (E22300)			Weapon System Type:		Date: February 2008	
<b>AMMO Cost Elements</b>		ID CD	<b>FY 07</b>			<b>FY 08</b>			<b>FY 09</b>		
			Total Cost	Qty	Unit Cost	Total Cost	Qty	Unit Cost	Total Cost	Qty	Unit Cost
			\$000	x1000	\$	\$000	x1000	\$	\$000	x1000	\$
<b>AMMUNITION HARDWARE</b>											
Load Assemble Pack (LAP)			12405	13	990	6052	4	1485	5990	4	1518
<b>SubTotal AMMO Hardware</b>			<b>12405</b>			<b>6052</b>			<b>5990</b>		
<b>PRODUCTION SUPPORT COSTS</b>											
Production Engineering			1907			1832			1884		
Acceptance Testing			92			287			293		
<b>SubTotal Production Support</b>			<b>1999</b>			<b>2119</b>			<b>2177</b>		
<b>COST - NON-RECURRING</b>											
Engineering Change Proposals			300								
<b>SubTotal COST Non-Recurring</b>			<b>300</b>								
<b>Total:</b>			<b>14704</b>		<b>1131</b>	<b>8171</b>		<b>2042</b>	<b>8167</b>		<b>2042</b>



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

Date:  
February 2008

Appropriation/Budget Activity/Serial No: Procurement of Ammunition, Army/ 1/ Ammunition		Weapon System Type:	P-1 Line Item Nomenclature: CTG, 105MM, TP-T, M467A1 (E22300)							
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>Load Assemble Pack (LAP)</b>										
FY 2007	L3 Lancaster, PA	SS/Option	Picatinny, NJ	Mar 07	Mar 08	13	990	Y		
FY 2008	To Be Selected	C/FP	Picatinny, NJ	Mar 08	Jun 09	4	1485	Y		
FY 2009	To Be Selected	C/Option	Picatinny, NJ	Jan 09	Jan 10	4	1518	Y		

REMARKS:

<b>FY 08 / 09 BUDGET PRODUCTION SCHEDULE</b>	P-1 ITEM NOMENCLATURE CTG, 105MM, TP-T, M467A1 (E22300)	Date: February 2008
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COST ELEMENTS						Fiscal Year 08													Fiscal Year 09													Later
M F R	FY	S E R V	PROC QTY x1000	ACCEP PRIOR TO 1 OCT	BAL DUE AS OF 1 OCT	Calendar Year 08													Calendar Year 09													
						O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P			

Load Assemble Pack (LAP)																																						
1	FY 07	A	13	0	13																																0	
2	FY 08	A	4	0	4						A																										4	0
2	FY 09	A	4	0	4																																	4
Total			21		21																																4	4
						O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P									

M F R	Name - Location	PRODUCTION RATES			Reached D+	MFR	ADMIN LEAD TIME		MFR After 1 Oct	TOTAL After 1 Oct	REMARKS		
		MIN	1-8-5	MAX			Prior 1 Oct	After 1 Oct					
1	L3, Lancaster, PA	1	5	10		1	Initial	3	7	12	19	Deliveries reflect continuous production but are combined into acceptable lot quantities and reflect actual rounds accepted into the Army's field service account.	
							Reorder	3	6	12	18		
2	To Be Selected	1	5	10		2	Initial	3	6	15	21		
							Reorder	3	4	12	16		
							Initial						
							Reorder						
							Initial						
							Reorder						
							Initial						
							Reorder						
							Initial						
							Reorder						

COST ELEMENTS					Fiscal Year 10													Fiscal Year 11													Later	
MFR	FY	S E R V	PROC QTY x1000	ACCEP PRIOR TO 1 OCT	BAL DUE AS OF 1 OCT	Calendar Year 10													Calendar Year 11													
						O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P			
Load Assemble Pack (LAP)																																
1	FY 07	A	13	13																										0		
2	FY 08	A	4	4																									0			
2	FY 09	A	4	0	4				4																				0			
Total								4																								

MFR	Name - Location	PRODUCTION RATES			Reached D+	MFR	ADMIN LEAD TIME		MFR After 1 Oct	TOTAL After 1 Oct	REMARKS	
		MIN	1-8-5	MAX			Prior 1 Oct	After 1 Oct				
												1
1	L3, Lancaster, PA	1	5	10		1	Initial	3	7	12	19	Deliveries reflect continuous production but are combined into acceptable lot quantities and reflect actual rounds accepted into the Army's field service account.
							Reorder	3	6	12	18	
2	To Be Selected	1	5	10		2	Initial	3	6	15	21	
							Reorder	3	4	12	16	
							Initial					
							Reorder					
							Initial					
							Reorder					

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

Date: February 2008

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

P-1 Item Nomenclature  
CTG, 105MM, APERS-T F/TANK GUN (E24400)

Program Elements for Code B Items:

Code: A

Other Related Program Elements:

	Prior Years	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013	To Complete	Total Prog
Proc Qty	118	2	3	4	4	3	3	3		140
Gross Cost	55.7	4.8	6.1	7.7	7.9	8.0	7.8	8.0		105.9
Less PY Adv Proc										
Plus CY Adv Proc										
Net Proc P1	55.7	4.8	6.1	7.7	7.9	8.0	7.8	8.0		105.9
Initial Spares										
Total Proc Cost	55.7	4.8	6.1	7.7	7.9	8.0	7.8	8.0		105.9
Flyaway U/C										
Weapon System Proc U/C										

**Description:**

The Cartridge, 105mm, APERS-T F/Tank Gun responds to an urgent need of the Mobile Gun System (MGS) to defeat infantry squads in the open. This cartridge, similar to a shotgun shell, expels payload at muzzle exit to provide the capability of suppressing dismounted infantry assaults in close/restricted terrain. This cartridge utilizes breakthrough technology to provide maximum lethality capabilities to the soldier. Unlike previous anti-personnel tank cartridges, this cartridge has no fuze and is intended to be a simple, low-cost, low-technology round. This item is Code A, approved for service use.

**Justification:**

This is a training standard item used in both training and combat. FY 2009 procurement supports annual training and builds a war reserve inventory in accordance with the Army's procurement goals. The cartridge will enable the MGS in the Stryker Brigade Combat Team to satisfy the Main Gun Operational Requirements Document (ORD) to immediately suppress dismounted infantry assaults.

TYPE CLASSIFICATION: July 2006

<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, APERS-T F/TANK GUN (E24400)			Weapon System Type:		Date: February 2008		
<b>AMMO Cost Elements</b>		ID CD	<b>FY 07</b>			<b>FY 08</b>			<b>FY 09</b>		
			Total Cost \$000	Qty x1000	Unit Cost \$	Total Cost \$000	Qty x1000	Unit Cost \$	Total Cost \$000	Qty x1000	Unit Cost \$
<b>AMMUNITION HARDWARE</b>											
Load Assemble Pack (LAP)			2747	2	1443	3393	3	1357	5605	4	1426
M148A1B1 Cartridge Cases						1878	9	198			
PA117 Containers			102	2	55	155	3	55	220	4	
<b>Sub Total AMMO Hardware</b>			<b>2849</b>			<b>5426</b>			<b>5825</b>		
<b>Production Support Costs</b>											
Production Engineering			1498			409			1393		
Acceptance Testing			459			235			444		
<b>Sub Total Prod. Support</b>			<b>1957</b>			<b>644</b>			<b>1837</b>		
<b>Total:</b>			<b>4806</b>		<b>2403</b>	<b>6070</b>		<b>2023</b>	<b>7662</b>		<b>1916</b>

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

Date:  
February 2008

Appropriation/Budget Activity/Serial No: Procurement of Ammunition, Army/ 1/ Ammunition	Weapon System Type:	P-1 Line Item Nomenclature: CTG, 105MM, APERS-T F/TANK GUN (E24400)								
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>Load Assemble Pack (LAP)</b>										
FY 2007	L-3 COMMUNICATIONS LANCASTER, PA	Option	Picatinny, NJ	Mar 07	Dec 07	2	1443	Y		
FY 2008	L-3 COMMUNICATIONS LANCASTER, PA	Option	Picatinny, NJ	Jan 08	Oct 08	3	1357	Y		
FY 2009	L-3 COMMUNICATIONS LANCASTER, PA	Option	Picatinny, NJ	Jan 09	Oct 09	4	1426	Y		
<b>M148A1B1 Cartridge Cases</b>										
FY 2008	L-3 COMMUNICATIONS LANCASTER, PA	Option	Picatinny, NJ	Jan 08	Oct 08	9	198	Y		
<b>PA117 Containers</b>										
FY 2007	DEL FASCO AFTON, TN	C/FP	Picatinny, NJ	Mar 07	Dec 07	2	55	Y		
FY 2008	DEL FASCO AFTON, TN	Option	Picatinny, NJ	Jan 08	Oct 08	3	55	Y		
FY 2009	DEL FASCO AFTON, TN	Option	Picatinny, NJ	Jan 09	Oct 09	4	55	Y		

REMARKS:

<b>FY 08 / 09 BUDGET PRODUCTION SCHEDULE</b>	P-1 ITEM NOMENCLATURE CTG, 105MM, APERS-T F/TANK GUN (E24400)	Date: February 2008
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COST ELEMENTS						Fiscal Year 08													Fiscal Year 09													Later
MFR	FY	S E R V	PROC QTY x1000	ACCEP PRIOR TO 1 OCT	BAL DUE AS OF 1 OCT	Calendar Year 08													Calendar Year 09													
						O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P			

Load Assemble Pack (LAP)																																	
1	FY 07	A	2	0	2						2																						0
1	FY 08	A	3	0	3				A									3															0
1	FY 09	A	4	0	4																A												4
Total																																	
			9		9						2							3														4	
O C T N O V D E C J A N F E B M A R A P R M A Y J U N J U L A U G S E P O C T N O V D E C J A N F E B M A R A P R M A Y J U N J U L A U G S E P																																	

MFR	Name - Location	PRODUCTION RATES			Reached D+	MFR	ADMIN LEAD TIME		MFR After 1 Oct	TOTAL After 1 Oct	REMARKS	
		MIN	1-8-5	MAX			Prior 1 Oct	After 1 Oct				
1	L-3 COMMUNICATIONS, LANCASTER, PA	1	2	2		1	Initial	3	11	12	23	Deliveries reflect continuous production but are combined into acceptable lot quantities and reflect actual rounds accepted into the Army's field service account.
							Reorder	3	4	9	13	
							Initial					
							Reorder					
							Initial					
							Reorder					
							Initial					
							Reorder					

<b>FY 10 / 11 BUDGET PRODUCTION SCHEDULE</b>	P-1 ITEM NOMENCLATURE CTG, 105MM, APERS-T F/TANK GUN (E24400)	Date: February 2008
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COST ELEMENTS					Fiscal Year 10													Fiscal Year 11													Later	
M F R	FY	S E R V	PROC QTY x1000	ACCEP PRIOR TO 1 OCT	BAL DUE AS OF 1 OCT	Calendar Year 10													Calendar Year 11													
						O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P			

Load Assemble Pack (LAP)																													
1	FY 07	A	2	2																								0	
1	FY 08	A	3	3																								0	
1	FY 09	A	4	0	4	4																						0	
Total					9	5	4	4																					
						O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P

M F R	Name - Location	PRODUCTION RATES			Reached D+	MFR	ADMIN LEAD TIME		MFR After 1 Oct	TOTAL After 1 Oct	REMARKS
		MIN	1-8-5	MAX			Prior 1 Oct	After 1 Oct			
1	L-3 COMMUNICATIONS, LANCASTER, PA	1	2	2	1	Initial	3	11	12	23	Deliveries reflect continuous production but are combined into acceptable lot quantities and reflect actual rounds accepted into the Army's field service account.
						Reorder	3	4	9	13	
						Initial					
						Reorder					
						Initial					
						Reorder					
						Initial					
						Reorder					



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

Date: February 2008

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

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

Program Elements for Code B Items:

Code:

Other Related Program Elements:

	Prior Years	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013	To Complete	Total Prog
Proc Qty										
Gross Cost	3946.2	188.1	179.2	151.0	148.9	117.0	120.6	123.3		4974.4
Less PY Adv Proc										
Plus CY Adv Proc										
Net Proc P1	3946.2	188.1	179.2	151.0	148.9	117.0	120.6	123.3		4974.4
Initial Spares										
Total Proc Cost	3946.2	188.1	179.2	151.0	148.9	117.0	120.6	123.3		4974.4
Flyaway U/C										
Weapon System Proc U/C										

**Description:**

This budget line includes CARTRDIGE, TANK, 120MM, ALL TYPES.

FY 2007 funding total includes \$8 million received in GWOT supplemental.

FY 2008 funding total includes \$0 received in The Consolidated Appropriations Act, 2008 (P.L. 110-161).

FY 2008 funding totals do not include \$0 previously requested for current FY 2008 GWOT 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: CTG, TANK, 120MM, ALL TYPES (E89700)			Weapon System Type:		Date: February 2008	
<b>AMMO Cost Elements</b>		ID CD	<b>FY 07</b>			<b>FY 08</b>			<b>FY 09</b>		
			Total Cost	Qty	Unit Cost	Total Cost	Qty	Unit Cost	Total Cost	Qty	Unit Cost
			\$000	x1000	\$	\$000	x1000	\$	\$000	x1000	\$
E73201 CTG Tank 120MM TP-T M1002			53043	41	1294	64546	40	1614	46202	28	1650
E73300 CTG Tank 120MM TP-T M831/M831A1			979								
E73400 CTGTank 120MM TPCSDS-T M865			72477	102	711	67665	81	835	62782	56	1121
E78011 CTG Tank 120MM Canister M1028			14617	9	1624				8000	4	2000
E78013 CTG Tank 120MM APFSDS-T M829A3			47021	7	6717	46970	8	5871	34031	4	8508
<b>Total:</b>			<b>188137</b>			<b>179181</b>			<b>151015</b>		

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

Date: February 2008

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

P-1 Item Nomenclature  
Cartridge, 120mm, TP-T M1002 (E73201)

Program Elements for Code B Items:

Code:  
A

Other Related Program Elements:

	Prior Years	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013	To Complete	Total Prog
Proc Qty	25	41	40	28	49	34	30	30		277
Gross Cost	45.5	53.0	64.5	46.2	78.1	54.7	55.9	57.1		455.0
Less PY Adv Proc										
Plus CY Adv Proc										
Net Proc P1	45.5	53.0	64.5	46.2	78.1	54.7	55.9	57.1		455.0
Initial Spares										
Total Proc Cost	45.5	53.0	64.5	46.2	78.1	54.7	55.9	57.1		455.0
Flyaway U/C										
Weapon System Proc U/C										

**Description:**

The Cartridge, 120mm, Target Practice Multi Purpose-Tracer (TPMP-T) M1002 is a target practice cartridge that simulates the size, weight, ballistics and the loader's function of setting the nose switch of the multi-purpose chemical energy cartridge M830A1. This cartridge is fired from the M256 120mm smooth bore cannon on the M1A1/M1A2/M1A2 Systems Enhancement Program Abrams Tank. The projectile is inert and composed of an aluminum body, steel nose with dummy plastic switch, aluminum conical stabilizer, aluminum sabot, nylon obturators and tracer. The stabilizer imparts spin to the projectile in flight for stabilization and provides the mechanism to limit the projectile's maximum range. This item is Code A, approved for service use.

**Justification:**

This is a training unique item not for use in combat. FY 2009 procurement supports annual training requirements and builds a depot level in accordance with the Army's procurement goals. The M1002 will replace the M831A1 cartridge. Tank crews will conduct live fire training with the cartridge to achieve and maintain gunnery proficiency.

TYPE CLASSIFICATION: June 2006

<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: Cartridge, 120mm, TP-T M1002 (E73201)			Weapon System Type:		Date: February 2008	
<b>AMMO Cost Elements</b>		ID CD	<b>FY 07</b>			<b>FY 08</b>			<b>FY 09</b>		
			Total Cost	Qty	Unit Cost	Total Cost	Qty	Unit Cost	Total Cost	Qty	Unit Cost
			\$000	x1000	\$	\$000	x1000	\$	\$000	x1000	\$
<b>AMMUNITION HARDWARE</b>											
COMPLETE ROUND											
			48986	41	1207	60067	40	1497	39700	28	1433
<b>HARDWARE SUBTOTAL</b>			<b>48986</b>			<b>60067</b>			<b>39700</b>		
<b>PRODUCTION SUPPORT COSTS</b>											
PRODUCTION ENGINEERING											
			3549			4193			5722		
QUALITY ASSURANCE											
									146		
ACCEPTANCE TESTING											
			508			286			634		
<b>PRODUCTION SUPPORT SUBTOTAL</b>			<b>4057</b>			<b>4479</b>			<b>6502</b>		
<b>Total:</b>			<b>53043</b>		<b>1294</b>	<b>64546</b>		<b>1614</b>	<b>46202</b>		<b>1650</b>

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

Date:  
February 2008

Appropriation/Budget Activity/Serial No: Procurement of Ammunition, Army/ 1/ Ammunition		Weapon System Type:	P-1 Line Item Nomenclature: Cartridge, 120mm, TP-T M1002 (E73201)							
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>COMPLETE ROUND</b>										
FY 2007	ALLIANT TECH SYS, INC PLYMOUTH, MN	C/FP	ROCK ISLAND, IL	Apr 07	Jun 08	31	1206.83			
FY 2007	GENERAL DYNAMICS ORD & TAC ST PETERSBURG, FL	C/FP	ROCK ISLAND, IL	Apr 07	Mar 09	10	1206.83			
FY 2008	ALLIANT TECH SYS, INC PLYMOUTH, MN	SSM-1/FP	ROCK ISLAND, IL	Jan 08	Dec 08	20	1497.00	Y		
FY 2008	GENERAL DYNAMICS ORD & TAC ST PETERSBURG, FL	SSM-1/FP	ROCK ISLAND, IL	Jan 08	Dec 08	20	1497.00	Y		
FY 2009	ALLIANT TECH SYS, INC PLYMOUTH, MN	SSM-2/FP	ROCK ISLAND, IL	Jan 09	Dec 09	14	1433.41	Y		
FY 2009	GENERAL DYNAMICS ORD & TAC ST PETERSBURG, FL	SSM-2/FP	ROCK ISLAND, IL	Jan 09	Dec 09	14	1433.41	Y		

REMARKS: FY 2007 - FY 2009 COMPLETE ROUND IS AN AVERAGE UNIT COST FOR MULTIPLE PRODUCERS.

THE ACQUISITION STRATEGY FOR FY 2008 - FY 2011 IS A 4-YEAR MULTI-YEAR PRODUCTION CONTRACT FOR THE M865 & M1002. THESE PROCUREMENTS ARE RESTRICTED TO ATK & GD-OTS WITH A 50/50 SPLIT.

<b>FY 08 / 09 BUDGET PRODUCTION SCHEDULE</b>	P-1 ITEM NOMENCLATURE Cartridge, 120mm, TP-T M1002 (E73201)	Date: February 2008
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COST ELEMENTS						Fiscal Year 08												Fiscal Year 09												Later
M F R	FY	S E R V	PROC QTY x1000	ACCEP PRIOR TO 1 OCT	BAL DUE AS OF 1 OCT	Calendar Year 08												Calendar Year 09												
						O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	

COMPLETE ROUND																													
1	FY 07 P	A	16.00	0.00	16.00		9.00		7.00																			0.00	
2	FY 07 P	A	4.00	0.00	4.00								2.00	2.00															0.00
1	FY 07	A	31.00	0.00	31.00																								0.00
2	FY 07	A	10.00	0.00	10.00																								0.00
1	FY 08	A	20.00	0.00	20.00				A																				0.00
2	FY 08	A	20.00	0.00	20.00				A																				0.00
1	FY 09	A	14.00	0.00	14.00																								14.00
2	FY 09	A	14.00	0.00	14.00																								14.00
1	FY 07	MC	16.00	0.00	16.00																								0.00
2	FY 07	MC	4.00	0.00	4.00																								0.00
1	FY 08	MC	23.70	0.00	23.70																								19.00

M F R	Name - Location	PRODUCTION RATES			Reached D+	MFR	ADMIN LEAD TIME		MFR After 1 Oct	TOTAL After 1 Oct	REMARKS	
		MIN	1-8-5	MAX			Prior 1 Oct	After 1 Oct				
1	ALLIANT TECH SYS, INC, PLYMOUTH, MN	0.13	1.00	19.00		1	Initial	6	4	11	15	Deliveries reflect continuous production but are combined into acceptable lot quantities and reflect actual rounds accepted into the Army's field service account. M865/M1002 will line share at IAAP starting FY08 when the two rounds are combined in the MYIV contract.
						Reorder	6	4	11	15		
2	GENERAL DYNAMICS ORD & TAC, ST PETERSBURG, FL	0.13	1.00	19.00		2	Initial	6	4	11	15	
						Reorder	6	4	11	15		
						Initial						
						Reorder						
						Initial						
						Reorder						



<b>FY 10 / 11 BUDGET PRODUCTION SCHEDULE</b>	P-1 ITEM NOMENCLATURE Cartridge, 120mm, TP-T M1002 (E73201)	Date: February 2008
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COST ELEMENTS						Fiscal Year 10													Fiscal Year 11													Later
M F R	FY	S E R V	PROC QTY x1000	ACCEP PRIOR TO 1 OCT	BAL DUE AS OF 1 OCT	Calendar Year 10													Calendar Year 11													
						O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P			

COMPLETE ROUND																															
1	FY 07 P	A	16.00	16.00																											0.00
2	FY 07 P	A	4.00	4.00																											0.00
1	FY 07	A	31.00	31.00																											0.00
2	FY 07	A	10.00	10.00																											0.00
1	FY 08	A	20.00	20.00																											0.00
2	FY 08	A	20.00	20.00																											0.00
1	FY 09	A	14.00	0.00	14.00			2.00	2.00	2.00			2.00			2.00			2.00												0.00
2	FY 09	A	14.00	0.00	14.00			2.00	2.00			2.00			2.00			2.00													0.00
1	FY 07	MC	16.00	16.00																											0.00
2	FY 07	MC	4.00	4.00																											0.00
1	FY 08	MC	23.70	4.70	19.00			19.00																							0.00
						O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P		

M F R	Name - Location	PRODUCTION RATES			Reached D+	MFR	ADMIN LEAD TIME		MFR After 1 Oct	TOTAL After 1 Oct	REMARKS	
		MIN	1-8-5	MAX			Prior 1 Oct	After 1 Oct				
1	ALLIANT TECH SYS, INC, PLYMOUTH, MN	0.13	1.00	19.00		1	Initial	6	4	11	15	Deliveries reflect continuous production but are combined into acceptable lot quantities and reflect actual rounds accepted into the Army's field service account. M865/M1002 will line share at IAAP starting FY08 when the two rounds are combined in the MYIV contract.
							Reorder	6	4	11	15	
2	GENERAL DYNAMICS ORD & TAC, ST PETERSBURG, FL	0.13	1.00	19.00		2	Initial	6	4	11	15	
							Reorder	6	4	11	15	
							Initial					
							Reorder					
							Initial					
							Reorder					
							Initial					
							Reorder					



<b>FY 10 / 11 BUDGET PRODUCTION SCHEDULE</b>	P-1 ITEM NOMENCLATURE Cartridge, 120mm, TP-T M1002 (E73201)	Date: February 2008
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COST ELEMENTS						Fiscal Year 10													Fiscal Year 11													Later			
M F R	FY	S E R V	PROC QTY  x1000	ACCEP PRIOR TO 1 OCT	BAL DUE AS OF 1 OCT	Calendar Year 10													Calendar Year 11																
						O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P						
2	FY 08	MC	23.70	23.70																														0.00	
1	FY 09	MC	1.00	0.00	1.00			1.00																										0.00	
2	FY 09	MC	1.00	0.00	1.00			1.00																										0.00	
<b>Total</b>								19.00	6.00	4.00	2.00	2.00	4.00	2.00	2.00	2.00	4.00																		
						O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P						

M F R	Name - Location	PRODUCTION RATES			Reached D+	MFR	ADMIN LEAD TIME		MFR After 1 Oct	TOTAL After 1 Oct	REMARKS	
		MIN	1-8-5	MAX			Prior 1 Oct	After 1 Oct				
1	ALLIANT TECH SYS, INC, PLYMOUTH, MN	0.13	1.00	19.00		1	Initial	6	4	11	15	Deliveries reflect continuous production but are combined into acceptable lot quantities and reflect actual rounds accepted into the Army's field service account. M865/M1002 will line share at IAAP starting FY08 when the two rounds are combined in the MYIV contract.
							Reorder	6	4	11	15	
2	GENERAL DYNAMICS ORD & TAC, ST PETERSBURG, FL	0.13	1.00	19.00		2	Initial	6	4	11	15	
							Reorder	6	4	11	15	
							Initial					
							Reorder					
							Initial					
							Reorder					

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

Date: February 2008

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

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

Program Elements for Code B Items:

Code:  
A

Other Related Program Elements:

	Prior Years	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013	To Complete	Total Prog
Proc Qty	3396	102	81	56	63	54	47	47		3846
Gross Cost	2109.5	72.5	67.7	62.8	70.9	62.3	64.7	66.2		2576.6
Less PY Adv Proc										
Plus CY Adv Proc										
Net Proc P1	2109.5	72.5	67.7	62.8	70.9	62.3	64.7	66.2		2576.6
Initial Spares										
Total Proc Cost	2109.5	72.5	67.7	62.8	70.9	62.3	64.7	66.2		2576.6
Flyaway U/C										
Weapon System Proc U/C										

**Description:**

The 120mm M865 Target Practice Cone-Stabilized Discarding Sabot with Tracer (TPCSDS-T) is a target practice round that simulates the ballistics of the 120mm M829 series Armor Piercing Fin-Stabilized Discarding Sabot with Tracer (APFSDS-T) 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 2009 procurement supports annual 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.

TYPE CLASSIFICATION DATE: 1984

<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: February 2008	
<b>AMMO Cost Elements</b>		ID CD	<b>FY 07</b>			<b>FY 08</b>			<b>FY 09</b>		
			Total Cost \$000	Qty x1000	Unit Cost \$	Total Cost \$000	Qty x1000	Unit Cost \$	Total Cost \$000	Qty x1000	Unit Cost \$
<b>HARDWARE</b>											
COMPLETE ROUND			58676	102	575	59589	81	740	55213	56	993
<b>H/W SUBTOTAL</b>			<b>58676</b>			<b>59589</b>			<b>55213</b>		
<b>PRODUCTION SUPPORT COSTS</b>											
PRODUCTION ENGINEERING			13173			4659			5616		
QUALITY ASSURANCE			34			32			158		
ACCEPTANCE TESTING			594			571			593		
<b>PROD SUPPORT SUBTOTAL</b>			<b>13801</b>			<b>5262</b>			<b>6367</b>		
<b>NON-RECURRING COSTS</b>											
ENGINEERING STUDY						2814			1202		
<b>NON-RECURRING SUBTOTAL</b>						<b>2814</b>			<b>1202</b>		
<b>Total:</b>			<b>72477</b>		<b>711</b>	<b>67665</b>		<b>835</b>	<b>62782</b>		<b>1121</b>

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

Date:  
February 2008

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 \$000	Specs Avail Now?	Date Revsn Avail	RFP Issue Date
<b>COMPLETE ROUND</b>										
FY 2007	ALLIANT TECH SYS, INC PLYMOUTH, MN	SS/MY-4	ROCK ISLAND, IL	Dec 06	Mar 08	51	574.52			
FY 2007	GENERAL DYNAMICS ORD& TAC SYS ST PETERSBURG, FL	SS/MY-4	ROCK ISLAND, IL	Dec 06	Mar 08	51	574.52			
FY 2008	ALLIANT TECH SYS, INC PLYMOUTH, MN	SS/MY-1	ROCK ISLAND, IL	Jan 08	Oct 08	40	739.85	Y		
FY 2008	GENERAL DYNAMICS ORD& TAC SYS ST PETERSBURG, FL	SS/MY-1	ROCK ISLAND, IL	Jan 08	Oct 08	40	739.85	Y		
FY 2009	ALLIANT TECH SYS, INC PLYMOUTH, MN	SS/MY-2	ROCK ISLAND, IL	Jan 09	Oct 09	28	993.04	Y		
FY 2009	GENERAL DYNAMICS ORD& TAC SYS ST PETERSBURG, FL	SS/MY-2	ROCK ISLAND, IL	Jan 09	Oct 09	28	993.04	Y		

REMARKS: FY 2007-FY 2009 AVERAGE UNIT PRICE FOR MULTIPLE PRODUCERS.  
THE ACQUISITION STRATEGY FOR FY 2008 - FY2011 IS A 4-YEAR MULTI-YEAR PRODUCTION CONTRACT FOR THE M865 & M1002. THESE PROCUREMENTS ARE RESTRICTED TO ATK & GD-OTS WITH A 50/50 SPLIT.

<b>FY 08 / 09 BUDGET PRODUCTION SCHEDULE</b>	P-1 ITEM NOMENCLATURE CTG TANK 120MM TPCSDS-T M865 (E73400)	Date: February 2008
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COST ELEMENTS						Fiscal Year 08												Fiscal Year 09												Later
M F R	FY	S E R V	PROC QTY x1000	ACCEP PRIOR TO 1 OCT	BAL DUE AS OF 1 OCT	Calendar Year 08												Calendar Year 09												
						O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	

COMPLETE ROUND																																
1	FY 07 P	A	59.0	36.0	23.0	9.0	3.0			4.0	7.0																			0.0		
2	FY 07 P	A	60.0	13.0	47.0	10.0	7.0	19.0		3.0	8.0																			0.0		
1	FY 07	A	51.0	0.0	51.0						2.0	7.0		10.0	19.0					6.0	7.0									0.0		
2	FY 07	A	51.0	0.0	51.0						2.0	5.0				19.0	19.0		2.0	4.0										0.0		
1	FY 08	A	40.0	0.0	40.0				A											4.0	4.0	4.0		4.0	1.0	7.0	4.0		4.0	4.0	4.0	0.0
2	FY 08	A	40.0	0.0	40.0				A											4.0	4.0		4.0	4.0	1.0	7.0		4.0	4.0	4.0	0.0	
1	FY 09	A	28.0	0.0	28.0																			A							28.0	
2	FY 09	A	28.0	0.0	28.0																			A							28.0	
1	FY 07	MC	9.0	0.0	9.0				9.0																						0.0	
1	FY 08	MC	6.0	0.0	6.0															2.0											0.0	
2	FY 08	MC	6.0	0.0	6.0															1.0											0.0	
						O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P			

M F R	Name - Location	PRODUCTION RATES			Reached D+	MFR	ADMIN LEAD TIME		MFR After 1 Oct	TOTAL After 1 Oct	REMARKS	
		MIN	1-8-5	MAX			Prior 1 Oct	After 1 Oct				
1	ALLIANT TECH SYS, INC, PLYMOUTH, MN	0.1	1.0	19.0		1	Initial	6	4	9	13	M865/M1002 WILL LINE SHARE AT IOWA AAP STARTING FY08 WHEN THE TWO ROUNDS ARE COMBINED IN THE MYIV CONTRACT.
						Reorder	6	4	9	13		
2	GENERAL DYNAMICS ORD& TAC SYS, ST PETERSBURG, FL	0.1	1.0	19.0		2	Initial	6	4	9	13	
						Reorder	6	4	9	13		
						Initial						
						Reorder						
						Initial						
						Reorder						

<b>FY 08 / 09 BUDGET PRODUCTION SCHEDULE</b>	P-1 ITEM NOMENCLATURE CTG TANK 120MM TPCSDS-T M865 (E73400)	Date: February 2008
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COST ELEMENTS						Fiscal Year 08											Fiscal Year 09										Later						
MFR	FY	S E R V	PROC QTY x1000	ACCEP PRIOR TO 1 OCT	BAL DUE AS OF 1 OCT	Calendar Year 08											Calendar Year 09																
						OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP				
1	FY 09	MC	3.0	0.0	3.0																							3.0					
2	FY 09	MC	3.0	0.0	3.0																							3.0					
Total						384.0	49.0	335.0	19.0	10.0	19.0	9.0	7.0	19.0	12.0		10.0	19.0	19.0	19.0	19.0	19.0	13.0	4.0	8.0	2.0	14.0	4.0	4.0	8.0	8.0	8.0	62.0
						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	ADMIN LEAD TIME		MFR After 1 Oct	TOTAL After 1 Oct	REMARKS	
		MIN	1-8-5	MAX			Prior 1 Oct	After 1 Oct				
1	ALLIANT TECH SYS, INC, PLYMOUTH, MN	0.1	1.0	19.0		1	Initial	6	4	9	13	M865/M1002 WILL LINE SHARE AT IOWA AAP STARTING FY08 WHEN THE TWO ROUNDS ARE COMBINED IN THE MYIV CONTRACT.
						Reorder	6	4	9	13		
2	GENERAL DYNAMICS ORD& TAC SYS, ST PETERSBURG, FL	0.1	1.0	19.0		2	Initial	6	4	9	13	
						Reorder	6	4	9	13		
						Initial						
						Reorder						
						Initial						
						Reorder						
						Initial						
						Reorder						

<b>FY 10 / 11 BUDGET PRODUCTION SCHEDULE</b>	P-1 ITEM NOMENCLATURE CTG TANK 120MM TPCSDS-T M865 (E73400)	Date: February 2008
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COST ELEMENTS					Fiscal Year 10													Fiscal Year 11													Later	
M F R	FY	S E R V	PROC QTY x1000	ACCEP PRIOR TO 1 OCT	BAL DUE AS OF 1 OCT	Calendar Year 10													Calendar Year 11													
						O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P			

COMPLETE ROUND																															
1	FY 07 P	A	59.0	59.0																											0.0
2	FY 07 P	A	60.0	60.0																											0.0
1	FY 07	A	51.0	51.0																											0.0
2	FY 07	A	51.0	51.0																											0.0
1	FY 08	A	40.0	40.0																											0.0
2	FY 08	A	40.0	40.0																											0.0
1	FY 09	A	28.0	0.0	28.0	7.0				7.0																					0.0
2	FY 09	A	28.0	0.0	28.0	7.0				7.0																					0.0
1	FY 07	MC	9.0	9.0																											0.0
1	FY 08	MC	6.0	6.0																											0.0
2	FY 08	MC	6.0	6.0																											0.0
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	

M F R	Name - Location	PRODUCTION RATES			Reached D+	MFR	ADMIN LEAD TIME		MFR After 1 Oct	TOTAL After 1 Oct	REMARKS	
		MIN	1-8-5	MAX			Prior 1 Oct	After 1 Oct				
1	ALLIANT TECH SYS, INC, PLYMOUTH, MN	0.1	1.0	19.0		1	Initial	6	4	9	13	M865/M1002 WILL LINE SHARE AT IOWA AAP STARTING FY08 WHEN THE TWO ROUNDS ARE COMBINED IN THE MYIV CONTRACT.
							Reorder	6	4	9	13	
2	GENERAL DYNAMICS ORD& TAC SYS, ST PETERSBURG, FL	0.1	1.0	19.0		2	Initial	6	4	9	13	
							Reorder	6	4	9	13	
							Initial					
							Reorder					
							Initial					
							Reorder					
							Initial					
							Reorder					





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

Date: February 2008

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

P-1 Item Nomenclature  
Cartridge, 120mm, Canister, M1028 (E78011)

Program Elements for Code B Items:

Code: A

Other Related Program Elements:

	Prior Years	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013	To Complete	Total Prog
Proc Qty	14	9		4						27
Gross Cost	26.2	14.6		8.0						48.8
Less PY Adv Proc										
Plus CY Adv Proc										
Net Proc P1	26.2	14.6		8.0						48.8
Initial Spares										
Total Proc Cost	26.2	14.6		8.0						48.8
Flyaway U/C										
Weapon System Proc U/C										

**Description:**

The 120mm M1028 Canister is a muzzle action anti-personnel tank cartridge. This cartridge is fired from the 120mm main gun of the M1A1/M1A2 Abrams tank and is effective at ranges less than 700 meters. The baseline design utilizes a payload of approximately 1100 tungsten balls that are expelled from the projectile casing upon muzzle exit, similar to a shotgun shell. Unlike previous anti-personnel cartridges, the M1028 does not have a fuze; it is intended to be a low-cost, low-technology cartridge. The M1028 uses a combustible cartridge case and propulsion-ignition system common to the current 120mm tank ammunition. This item is Code A, approved for service use.

**Justification:**

This is a training standard item used in both training and combat. FY 2009 procurement supports annual training and builds a war reserve inventory in accordance with the Army's procurement goals.

TYPE CLASSIFICATION: December 2004

<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: Cartridge, 120mm, Canister, M1028 (E78011)			Weapon System Type:		Date: February 2008	
<b>AMMO Cost Elements</b>		ID CD	<b>FY 07</b>			<b>FY 08</b>			<b>FY 09</b>		
			Total Cost	Qty	Unit Cost	Total Cost	Qty	Unit Cost	Total Cost	Qty	Unit Cost
			\$000	x1000	\$	\$000	x1000	\$	\$000	x1000	\$
<b>AMMUNITION HARDWARE</b>											
Complete Round			13086	9	1539				6457	4	1843
<b>SubTotal AMMO Hardware</b>			<b>13086</b>						<b>6457</b>		
<b>PRODUCTION SUPPORT COSTS</b>											
Production Engineering			785						995		
Acceptance Testing			746						548		
<b>SubTotal Production Support</b>			<b>1531</b>						<b>1543</b>		
<b>Total:</b>			<b>14617</b>		<b>1624</b>				<b>8000</b>		<b>2000</b>

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

Date:  
February 2008

Appropriation/Budget Activity/Serial No: Procurement of Ammunition, Army/ 1/ Ammunition		Weapon System Type:	P-1 Line Item Nomenclature: Cartridge, 120mm, Canister, M1028 (E78011)							
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>Complete Round</b>										
FY 2007	General Dynamics Ord & Tac St Petersburg, Fl	SS/Option	Picatinny, NJ	Jun 07	Jun 08	9	1539	Y		
FY 2009	General Dynamics Ord & Tac St Petersburg, Fl	C/FP	Picatinny, NJ	Apr 09	Apr 10	4	1843	Y		

REMARKS:



<b>FY 10 / 11 BUDGET PRODUCTION SCHEDULE</b>	P-1 ITEM NOMENCLATURE Cartridge, 120mm, Canister, M1028 (E78011)	Date: February 2008
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COST ELEMENTS						Fiscal Year 10													Fiscal Year 11													Later
MFR	FY	SERV	PROC QTY Units	ACCEP PRIOR TO 1 OCT	BAL DUE AS OF 1 OCT	Calendar Year 10													Calendar Year 11													
						OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP			

Complete Round																												
1	FY 07	A	9	9																								0
1	FY 09	A	4	0	4						4																	0
1	FY 07	MC	1	0	1																							1
1	FY 08	MC	1	1																								0

Total			15	10	5						4																	1	
						OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP

MFR	Name - Location	PRODUCTION RATES			Reached D+	MFR	ADMIN LEAD TIME		MFR After 1 Oct	TOTAL After 1 Oct	REMARKS Deliveries reflect continuous production but are combined into acceptable lot quantities and reflect actual rounds accepted into the Army's field service account.
		MIN	1-8-5	MAX			Prior 1 Oct	After 1 Oct			
		1	General Dynamics Ord & Tac, St Petersburg, FL	1	2	4	1	Initial	3	12	
						Reorder	3	9	12	21	
2	To Be Selected	1	2	4	2	Initial	3	7	12	19	
						Reorder	3	7	12	19	
						Initial					
						Reorder					
						Initial					
						Reorder					
						Initial					
						Reorder					

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

Date: February 2008

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

P-1 Item Nomenclature  
Ctg 120m APFSDS-T M829A3 (E78013)

Program Elements for Code B Items:

Code:  
A

Other Related Program Elements:

	Prior Years	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013	To Complete	Total Prog
Proc Qty	36	7	8	4						55
Gross Cost	197.0	47.0	47.0	34.0						325.0
Less PY Adv Proc										
Plus CY Adv Proc										
Net Proc P1	197.0	47.0	47.0	34.0						325.0
Initial Spares										
Total Proc Cost	197.0	47.0	47.0	34.0						325.0
Flyaway U/C										
Weapon System Proc U/C	11.5	6.7	5.9	8.5						32.6

**Description:**

The 120mm M829A3 Armor Piercing, Fin Stabilized, Discarding Sabot with Tracer (APFSDS-T) cartridge is the follow-on to the M829A2 APFSDS-T cartridge. The M829A3 is the most effective anti-armor kinetic energy round fired from the M256 120mm smoothbore cannon mounted on the Abrams Main Battle Tank. This cartridge has been specifically developed to counter advances in armor protection technologies, to include explosive reactive armor. The propulsion system consists of a high-energy propellant and a combustible cartridge case with an electric primer. The projectile system consists of a Depleted Uranium (DU) penetrator mated to a drag reducing windshield and flight stabilizing multi-bladed tail fin, all secured for launch by a composite sabot. The M829A3 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 item is Code A, approved for service use.

**Justification:**

This is a war reserve item used in combat. FY2009 procurement builds a war reserve inventory in accordance with the Army's procurement goals.

Procurement of the M829A3 supports the Abrams Main Battle Tank as the Army's premier lethal battlefield direct fire assault fighting vehicle. The Abrams' 120mm gun will remain in the bulk of the tank inventory until year 2050. The M829A3 ammunition is essential in maintaining the battlefield overmatch capabilities of the Abrams Tank. Production and fielding of the M829A3 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 represents the most lethal anti-armor tank cartridge in production/inventory.

TYPE CLASSIFICATION: March 2003

<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 120m APFSDS-T M829A3 (E78013)			Weapon System Type:		Date: February 2008		
<b>AMMO Cost Elements</b>		ID CD	<b>FY 07</b>			<b>FY 08</b>			<b>FY 09</b>		
			Total Cost	Qty	Unit Cost	Total Cost	Qty	Unit Cost	Total Cost	Qty	Unit Cost
			\$000	x1000	\$	\$000	x1000	\$	\$000	x1000	\$
<b>AMMUNITION HARDWARE</b>											
Complete Round			42500	7	5931	43762	8	5699	29300	4	7867
<b>SubTotal AMMO Hardware</b>			<b>42500</b>			<b>43762</b>			<b>29300</b>		
<b>PRODUCTION SUPPORT COSTS</b>											
Production Engineering			2701			1879			3710		
Acceptance Testing			1820			1329			1021		
<b>SubTotal Production Support</b>			<b>4521</b>			<b>3208</b>			<b>4731</b>		
<b>Total:</b>			<b>47021</b>		<b>6717</b>	<b>46970</b>		<b>5871</b>	<b>34031</b>		<b>8508</b>

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

Date:  
February 2008

Appropriation/Budget Activity/Serial No: Procurement of Ammunition, Army/ 1/ Ammunition		Weapon System Type:	P-1 Line Item Nomenclature: Ctg 120m APFSDS-T M829A3 (E78013)							
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 2007	Alliant Techsystems Minneapolis, MN	SS/FP	Picatinny, NJ	Mar 07	Jan 09	7	5931	Y		
FY 2008	Alliant Techsystems Minneapolis, MN	Option	Picatinny, NJ	Jan 08	Sep 09	8	5699	Y		
FY 2009	Alliant Techsystems Minneapolis, MN	Option	Picatinny, NJ	Jan 09	Mar 10	4	7867	Y		

REMARKS:



**FY 08 / 09 BUDGET PRODUCTION SCHEDULE**

P-1 ITEM NOMENCLATURE  
Ctg 120m APFSDS-T M829A3 (E78013)

Date: February 2008

COST ELEMENTS					Fiscal Year 08															Fiscal Year 09																						
MFR	FY	S E R V	PROC QTY x1000	ACCEP PRIOR TO 1 OCT	BAL DUE AS OF 1 OCT	Calendar Year 08															Calendar Year 09																					
						O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	Later												
Complete Round																																										
1	FY 07 P	A	13	5	8																			2			3			3										0		
1	FY 08	A	8	0	8				A																	3		2			3										0	
1	FY 09	A	4	0	4																					A															4	
<b>Total</b>					25	5	20																				5		5			6										4
MFR	Name - Location					PRODUCTION RATES			Reached	MFR	ADMIN LEAD TIME		MFR	TOTAL	REMARKS																											
						MIN	1-8-5	MAX	D+		Prior 1 Oct	After 1 Oct	After 1 Oct	After 1 Oct																												
1	Alliant Techsystems, Minneapolis, MN					1	1	2		1	Initial	3	6	14	20																											
											Reorder	3	4	14	18																											
											Initial																															
											Reorder																															
											Initial																															
											Reorder																															
											Initial																															
											Reorder																															
											Initial																															
											Reorder																															

COST ELEMENTS						Fiscal Year 10														Fiscal Year 11														Later
M F R	FY	S E R V	PROC QTY x1000	ACCEP PRIOR TO 1 OCT	BAL DUE AS OF 1 OCT	Calendar Year 10														Calendar Year 11														
						O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P					

Complete Round

1	FY 07 P	A	13	13																									0
1	FY 08	A	8	8																									0
1	FY 09	A	4	0	4						2					2													0
Total			25	21	4						2					2													
						O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P

M F R	Name - Location	PRODUCTION RATES			Reached D+	MFR	ADMIN LEAD TIME		MFR After 1 Oct	TOTAL After 1 Oct	REMARKS		
		MIN	1-8-5	MAX			1	Initial				Prior 1 Oct	After 1 Oct
1	Alliant Techsystems, Minneapolis, MN	1	1	2		1	Initial	3	6	14	20		
							Reorder	3	4	14	18		
							Initial						
							Reorder						
							Initial						
							Reorder						
							Initial						
							Reorder						
							Initial						
							Reorder						

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

Date: February 2008

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

P-1 Item Nomenclature  
CTG, ARTY, 75MM: ALL TYPES (E15101)

Program Elements for Code B Items:

Code:  
A

Other Related Program Elements:

	Prior Years	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013	To Complete	Total Prog
Proc Qty	1093	34	40	40	32	34	35	35		1343
Gross Cost	30.1	2.3	2.7	2.7	2.3	2.4	2.5	2.6		47.5
Less PY Adv Proc										
Plus CY Adv Proc										
Net Proc P1	30.1	2.3	2.7	2.7	2.3	2.4	2.5	2.6		47.5
Initial Spares										
Total Proc Cost	30.1	2.3	2.7	2.7	2.3	2.4	2.5	2.6		47.5
Flyaway U/C										
Weapon System Proc U/C										

**Description:**

This budget line includes Cartridge, Artillery, 75mm All Types.

FY 2007 funding total includes \$0 received in GWOT supplemental.

FY 2008 funding total includes \$0 received in The Consolidated Appropriations Act, 2008 (P.L. 110-161).

FY 2008 funding totals do not include \$0 previously requested for current FY 2008 GWOT 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: CTG, ARTY, 75MM: ALL TYPES (E15101)			Weapon System Type:		Date: February 2008	
<b>AMMO Cost Elements</b>		ID	<b>FY 07</b>			<b>FY 08</b>			<b>FY 09</b>		
		CD	Total Cost	Qty	Unit Cost	Total Cost	Qty	Unit Cost	Total Cost	Qty	Unit Cost
			\$000	x1000	\$	\$000	x1000	\$	\$000	x1000	\$
E15200 75MM BLANK M337A1			2288	34	67	2681	40	67	2741	40	69
<b>Total:</b>			<b>2288</b>		<b>64</b>	<b>2681</b>		<b>59</b>	<b>2741</b>		<b>69</b>

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

Date: February 2008

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

P-1 Item Nomenclature  
CTG, ARTY, 105MM: ALL TYPES (E21101)

Program Elements for Code B Items:

Code:

Other Related Program Elements:

	Prior Years	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013	To Complete	Total Prog
Proc Qty										
Gross Cost	2891.1	32.6	51.7	42.2	50.2	46.2	48.4	49.8		3212.1
Less PY Adv Proc										
Plus CY Adv Proc										
Net Proc P1	2891.1	32.6	51.7	42.2	50.2	46.2	48.4	49.8		3212.1
Initial Spares										
Total Proc Cost	2891.1	32.6	51.7	42.2	50.2	46.2	48.4	49.8		3212.1
Flyaway U/C										
Weapon System Proc U/C										

**Description:**

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

FY 2007 funding total includes \$0 received in GWOT supplemental.

FY 2008 funding total includes \$10 million received in The Consolidated Appropriations Act, 2008 (P.L. 110-161).

FY 2008 funding totals do not include \$0 previously requested for current FY2008 GWOT requirements.

Actual amount for FY07 reflect changes since the publication of the P-1.

<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: ALL TYPES (E21101)			Weapon System Type:		Date: February 2008		
<b>AMMO Cost Elements</b>		ID CD	<b>FY 07</b>			<b>FY 08</b>			<b>FY 09</b>		
			Total Cost	Qty	Unit Cost	Total Cost	Qty	Unit Cost	Total Cost	Qty	Unit Cost
			\$000	x1000	\$	\$000	x1000	\$	\$000	x1000	\$
E21200 105MM BLANK M395			2246	20	112	2395	22	109	1714	14	122
E21501 105MM HE M1 W/O FUZE			27518			26665			27481		
E21601 105MM HE-BB PFF M1130						10000	4	2857			
E21700 105MM ILLUM M314A3 W/FUZE			1285								
E21702 CTG ARTY 105MM M314A3 W/O FUZE						12621	13	971	12958	13	997
E22202 105MM SMOKE WP M60 W/FUZE			1600								
<b>Total:</b>			<b>32649</b>			<b>51681</b>			<b>42153</b>		

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

Date: February 2008

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

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

Program Elements for Code B Items:

Code:  
A

Other Related Program Elements:

	Prior Years	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013	To Complete	Total Prog
Proc Qty	103232									103232
Gross Cost	2339.0	27.5	26.7	27.5	32.2	28.9	30.7	31.9		2544.4
Less PY Adv Proc										
Plus CY Adv Proc										
Net Proc P1	2339.0	27.5	26.7	27.5	32.2	28.9	30.7	31.9		2544.4
Initial Spares										
Total Proc Cost	2339.0	27.5	26.7	27.5	32.2	28.9	30.7	31.9		2544.4
Flyaway U/C										
Weapon System Proc U/C										

**Description:**

The 105mm HE M1 cartridge contains a High Explosive (HE) (either Comp B or TNT) and is used for fragmentation and blast in support of ground troops and armored columns. This round is also used for mining operations. The round is loaded with an M67 propellant charge, consisting of seven numbered increment bags sewn together in numerical order. Projectile function is dependent upon the fuze used and may function on impact (instantaneous or delay), above ground at a predetermined height or in proximity to the target area. Fuze function detonates the HE projectile filler resulting in projectile fragmentation and blast. Range varies from 3.5 to 11.3 kilometers, depending on the number of charge bags used. This item is Code A, approved for service use.

**Justification:**

This program will accomplish the remanufacture/recapitalization of 150,000 rounds per year at Blue Grass Army Depot, McAlester Army Ammunition Plant, and Hawthorne Army Depot by replacing the deteriorating cloth bag propelling charge with a new acrylic bag propelling charge made from a longer lasting material and replacing the old primer with a new one.

This is a training standard item used in both training and combat. FY 2009 recapitalization effort supports annual training and builds a war reserve inventory in accordance with the Army's procurement goals.

TYPE CLASSIFICATION DATE: 1966

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

Date: February 2008

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

P-1 Item Nomenclature  
CARTRIDGE, 105mm, HE-BB PFF, M1130 (E21601)

Program Elements for Code B Items:

Code:  
B

Other Related Program Elements:

	Prior Years	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013	To Complete	Total Prog
Proc Qty			4							4
Gross Cost			10.0							10.0
Less PY Adv Proc										
Plus CY Adv Proc										
Net Proc P1			10.0							10.0
Initial Spares										
Total Proc Cost			10.0							10.0
Flyaway U/C										
Weapon System Proc U/C										

**Description:**

The 105mm M1130 High-Explosive Basebleed Pre-Formed Fragmentation (HE BB-PFF) cartridge is fired from M119 series howitzers. It is used for fragmentation and blast in support of ground troops. The cartridge is loaded with an M67 propellant charge, consisting of seven numbered increment bags sewn together in numerical order. This cartridge is significantly more lethal against personnel and light skinned targets than the M927 cartridge it is replacing. This is a newstart production item that is being type classified with congressional funding provided in FY 2006. This item is Code B not approved for service use.

**Justification:**

This is a war reserve item. The FY 2008 Supplemental funding will procure approximately 3,500 cartridges.



Exhibit P-5, Weapon AMMO Cost Analysis		Appropriation/Budget Activity/Serial No: Procurement of Ammunition, Army / 1 / Ammunition		P-1 Line Item Nomenclature: CARTRIDGE, 105mm, HE-BB PFF, M1130 (E21601)			Weapon System Type:		Date: February 2008		
AMMO Cost Elements		ID	FY 07			FY 08			FY 09		
		CD	Total Cost	Qty	Unit Cost	Total Cost	Qty	Unit Cost	Total Cost	Qty	Unit Cost
			\$000	x1000	\$	\$000	x1000	\$	\$000	x1000	\$
<b>AMMUNITION HARDWARE</b>											
Complete Round											
						6000	4	1714			
<b>SubTotal AMMO Hardware</b>						<b>6000</b>					
<b>Production Support Costs</b>											
Production Engineering											
						1450					
Acceptance Testing											
						300					
<b>SubTotal Prod. Support</b>						<b>1750</b>					
<b>COST - Nonrecurring</b>											
First Article Testing											
						1000					
IM Compliance											
						500					
Software Blocking											
						750					
<b>SubTotal COST - Nonrecurring</b>						<b>2250</b>					
<b>Total:</b>						<b>10000</b>		<b>2857</b>			

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

Date:  
February 2008

Appropriation/Budget Activity/Serial No: Procurement of Ammunition, Army/ 1/ Ammunition		Weapon System Type:	P-1 Line Item Nomenclature: CARTRIDGE, 105mm, HE-BB PFF, M1130 (E21601)							
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>Complete Round</b> FY 2008	GDOTS St. Petersburg, Fl	SS/FP	Picatunny Arsenal, N.J.	Jun 08	Sep 09	4	1714	Y		

REMARKS:



**FY 10 / 11 BUDGET PRODUCTION SCHEDULE**

P-1 ITEM NOMENCLATURE  
CARTRIDGE, 105mm, HE-BB PFF, M1130 (E21601)

Date: February 2008

COST ELEMENTS						Fiscal Year 10														Fiscal Year 11														Later																																																																																																					
MFR	FY	S E R V	PROC QTY Each	ACCEP PRIOR TO 1 OCT	BAL DUE AS OF 1 OCT	Calendar Year 10														Calendar Year 11																																																																																																																			
						O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P																																																																																																										
Complete Round																																																																																																																																							
1	FY 08	A	4	2	2																								0																																																																																																										
Total																																																																																																																																							
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O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S																																																																																																				
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MFR	Name - Location	PRODUCTION RATES			Reached D+	MFR	ADMIN LEAD TIME		MFR After 1 Oct	TOTAL After 1 Oct	REMARKS	
		MIN	1-8-5	MAX			Prior 1 Oct	After 1 Oct				
		1	Initial	Reorder			6	9	15	24		
1	GDOTS, St. Petersburg, Fl	1	2	4		1	Initial	6	9	15	24	
							Reorder	3	3	12	15	
							Initial					
							Reorder					
							Initial					
							Reorder					
							Initial					
							Reorder					
							Initial					
							Reorder					

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

Date: February 2008

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

P-1 Item Nomenclature  
CARTRIDGE 105MM M314A3 SER ILLUM W/O FUZE F/HOWITZ (E21702)

Program Elements for Code B Items:

Code:  
A

Other Related Program Elements:

	Prior Years	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013	To Complete	Total Prog
Proc Qty			13	13	14	14	14	14		82
Gross Cost			12.6	13.0	15.2	15.5	15.8	16.1		88.2
Less PY Adv Proc										
Plus CY Adv Proc										
Net Proc P1			12.6	13.0	15.2	15.5	15.8	16.1		88.2
Initial Spares										
Total Proc Cost			12.6	13.0	15.2	15.5	15.8	16.1		88.2
Flyaway U/C										
Weapon System Proc U/C										

**Description:**

The 105mm M314A3 Illumination Cartridge is used to illuminate a designated target area. It has a hollow, steel-forged body with a stream-lined ogive, gliding metal rotating band, and a pinned base plug. The projectile cavity contains the expelling charge, illuminating canister, and parachute assembly. The round is fired in the M101, M101A1, M102 and M119 Howitzers. This item is Code A, approved for service use.

**Justification:**

This is a training standard item used in both training and combat. The FY 2009 procurement supports annual training and builds a war reserve inventory in accordance with the Army's procurement goals.

TYPE CLASSIFICATION: 1970

<b>AMMO Cost Elements</b>		ID	<b>FY 07</b>			<b>FY 08</b>			<b>FY 09</b>		
		CD	Total Cost	Qty	Unit Cost	Total Cost	Qty	Unit Cost	Total Cost	Qty	Unit Cost
			\$000	x1000	\$	\$000	x1000	\$	\$000	x1000	\$
<b>AMMUNITION HARDWARE</b>											
COMPLETE ROUND											
<b>H/W SUBTOTAL</b>											
<b>PRODUCTION SUPPORT COSTS</b>											
PRODUCTION ENGINEERING											
QUALITY ASSURANCE											
ACCEPTANCE TESTING											
<b>PROD SUPPORT SUBTOTAL</b>											
<b>Total:</b>											
						11188	13	832	11690	13	924
						<b>11188</b>			<b>11690</b>		
						1014			894		
						268			214		
						151			160		
						<b>1433</b>			<b>1268</b>		
						<b>12621</b>		<b>971</b>	<b>12958</b>		<b>997</b>

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

Date:  
February 2008

Appropriation/Budget Activity/Serial No: Procurement of Ammunition, Army/ 1/ Ammunition		Weapon System Type:		P-1 Line Item Nomenclature: CARTRIDGE 105MM M314A3 SER ILLUM W/O FUZE F/HOWITZ (E21702)						
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>COMPLETE ROUND</b>										
FY 2008	GDOTS MONTREAL, CN	C/OPT	ROCK ISLAND, IL	Mar 08	Mar 09	13	832	Y		
FY 2009	GDOTS MONTREAL, CN	C/OPT	ROCK ISLAND, IL	Mar 09	Mar 10	13	924	Y		

REMARKS: GDOTS - General Dynamics Ordnance and Tactical Systems





<b>FY 10 / 11 BUDGET PRODUCTION SCHEDULE</b>													P-1 ITEM NOMENCLATURE CARTRIDGE 105MM M314A3 SER ILLUM W/O FUZE F/HOWITZ (E21702)								Date: February 2008	
--	--	--	--	--	--	--	--	--	--	--	--	--	---	--	--	--	--	--	--	--	---------------------	--

COST ELEMENTS						Fiscal Year 10										Fiscal Year 11										Later
M F R	FY	S E R V	PROC QTY x1000	ACCEP PRIOR TO 1 OCT	BAL DUE AS OF 1 OCT	Calendar Year 10										Calendar Year 11										
						O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	

COMPLETE ROUND																														
1	FY 08	A	13.0	13.0																								0.0		
1	FY 09	A	13.0	0.0	13.0					5.0	5.0	3.0																0.0		
Total			26.0	13.0	13.0					5.0	5.0	3.0																		
						O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	

M F R	Name - Location	PRODUCTION RATES			Reached D+	MFR	ADMIN LEAD TIME		MFR After 1 Oct	TOTAL After 1 Oct	REMARKS	
		MIN	1-8-5	MAX			Prior 1 Oct	After 1 Oct				
1	GDOTS, MONTREAL, CN		5.0	12.5		1	Initial	6	6	14	20	
							Reorder	6	6	12	18	
							Initial					
							Reorder					
							Initial					
							Reorder					
							Initial					
							Reorder					
							Initial					
							Reorder					

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

Date: February 2008

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

P-1 Item Nomenclature  
CTG, ARTY, 155MM, ALL TYPES (E89500)

Program Elements for Code B Items:

Code:

Other Related Program Elements:

	Prior Years	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013	To Complete	Total Prog
Proc Qty										
Gross Cost	4540.3	90.4	87.5	85.0	89.5	85.3	82.5	84.2		5144.7
Less PY Adv Proc										
Plus CY Adv Proc										
Net Proc P1	4540.3	90.4	87.5	85.0	89.5	85.3	82.5	84.2		5144.7
Initial Spares										
Total Proc Cost	4540.3	90.4	87.5	85.0	89.5	85.3	82.5	84.2		5144.7
Flyaway U/C										
Weapon System Proc U/C										

**Description:**

This budget line includes Projectiles, Artillery, 155mm All Types.

FY 2007 funding total includes \$0 received in GWOT supplemental.

FY 2008 funding total includes \$0 received in The Consolidated Appropriations Act, 2008 (P.L. 110-161).

FY 2008 funding totals do not include \$0 previously requested for current FY2008 GWOT 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: CTG, ARTY, 155MM, ALL TYPES (E89500)			Weapon System Type:		Date: February 2008	
<b>AMMO Cost Elements</b>		ID CD	<b>FY 07</b>			<b>FY 08</b>			<b>FY 09</b>		
			Total Cost	Qty	Unit Cost	Total Cost	Qty	Unit Cost	Total Cost	Qty	Unit Cost
			\$000	x1000	\$	\$000	x1000	\$	\$000	x1000	\$
E26900 155mm Illum M485			28958	19	1524	11590	8	1449	11878	9	1320
E27601 155mm HE M107			49825	181	275	57073	214	267	54321	132	412
E27900 155mm Smoke WP M110			4167			9290	11	845	9680	12	807
E67800 155mm Smoke WP M825									4000		
E68500 155mm DP Basebled M864			6962			5107			5151		
E69800 155mm Prac M804			462			4394	10	439			
<b>Total:</b>			<b>90374</b>			<b>87454</b>			<b>85030</b>		

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

Date: February 2008

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

P-1 Item Nomenclature  
PROJ, ARTILLERY, 155MM ILLUM, M485 (E26900)

Program Elements for Code B Items:

Code:  
A

Other Related Program Elements:

	Prior Years	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013	To Complete	Total Prog
Proc Qty	1776	19	8	9	9	9	8	8		1846
Gross Cost	206.6	29.0	11.6	11.9	12.1	12.0	11.6	11.9		306.6
Less PY Adv Proc										
Plus CY Adv Proc										
Net Proc P1	206.6	29.0	11.6	11.9	12.1	12.0	11.6	11.9		306.6
Initial Spares										
Total Proc Cost	206.6	29.0	11.6	11.9	12.1	12.0	11.6	11.9		306.6
Flyaway U/C										
Weapon System Proc U/C										

**Description:**

The M485 is fired from 155mm howitzers and used to illuminate the battlefield. The projectile has a hollow, steel-forged body containing an illumination canister, a canister expelling charge in the nose and a drogue parachute in the base. The illuminate canister contains the main parachute and lines, the illuminate candle assembly and secondary expelling charge and a delay element holder. The outer shell of the canister is fitted with four longitudinal fins. The projectile uses a Mechanical or Electronic Time fuze. When the fuze functions, the primary expelling charge ignites forcing the drogue parachute and canister assembly against the base plate, rupturing the base pins and expelling the canister and parachute. The drogue parachute then deploys and the canister fins extend. The expelling charge also ignites the delay element in the canister nose. The delay element ignites the secondary expelling charge within the canister after 8 seconds igniting the candle and expelling the main parachute. With the main chute open, the illuminate candle descends at 15 feet per second and burns for 120 seconds producing approximately 1,000,000 candlepower. This item is Code A, approved for service use.

**Justification:**

This is a training standard item used in both training and combat. The FY 2009 procurements support annual training and builds a war reserve inventory in accordance with the Army's procurement goals.

TYPE CLASSIFICATION DATE: 1970

<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, ARTILLERY, 155MM ILLUM, M485 (E26900)			Weapon System Type:		Date: February 2008	
<b>AMMO Cost Elements</b>		ID CD	<b>FY 07</b>			<b>FY 08</b>			<b>FY 09</b>		
			Total Cost \$000	Qty x1000	Unit Cost \$	Total Cost \$000	Qty x1000	Unit Cost \$	Total Cost \$000	Qty x1000	Unit Cost \$
<b>HARDWARE</b>											
LOAD, ASSEMBLE, PACK			24457	19	1262	7110	8	854	1710	9	192
PROJ MPTS						3431	8	404	3111	9	342
CANISTER, BASE ASSY									282	9	31
CANISTER, MPTS ASSY									983	9	109
UNIVERSAL LIFTING PLUG			179	20	9	69	9	8	88	9	10
PARACHUTE, MAIN									514	9	57
PARACHUTE, DROGUE ASSY									296	9	33
GROMMET			120	20	6	17	9	2	60	9	7
PARACHUTE, MAIN SUPPORTS									95	37	3
PARACHUTE, DROGUE SUPPORTS									15	9	2
DELAY ELEMENT									596	9	64
CANDLE									3067	9	331
<b>H/W SUBTOTAL</b>			<b>24756</b>			<b>10627</b>			<b>10817</b>		
<b>PRODUCTION SUPPORT COSTS</b>											
PRODUCTION ENGINEERING			1152			670			734		
QUALITY ASSURANCE			10			108			105		
ACCEPTANCE TESTING			975			185			222		
<b>PROD SUPPORT SUBTOTAL</b>			<b>2137</b>			<b>963</b>			<b>1061</b>		
<b>NON-RECURRING COSTS</b>											
MATERIAL CHANGE - CANDLE OPTIMIZATION			765								
MATERIAL CHANGE - IR ILLUMINATION			1300								
<b>NON-RECURRING SUBTOTAL</b>			<b>2065</b>								
<b>Total:</b>			<b>28958</b>		<b>1524</b>	<b>11590</b>		<b>1449</b>	<b>11878</b>		<b>1320</b>

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

Date:  
February 2008

Appropriation/Budget Activity/Serial No: Procurement of Ammunition, Army/ 1/ Ammunition	Weapon System Type:	P-1 Line Item Nomenclature: PROJ, ARTILLERY, 155MM ILLUM, M485 (E26900)								
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>LOAD, ASSEMBLE, PACK</b>										
FY 2007	PINE BLUFF ARSENAL (PBA) PINE BLUFF, AR	SS/FP	ROCK ISLAND, IL	Dec 06	Oct 08	19	1262	Y		
FY 2008	PINE BLUFF ARSENAL (PBA) PINE BLUFF, AR	SS/FP	ROCK ISLAND, IL	Dec 07	Jun 09	8	854	Y		
FY 2009	PINE BLUFF ARSENAL (PBA) PINE BLUFF, AR	SS/FP	ROCK ISLAND, IL	Dec 08	Jun 10	9	192	Y		
<b>PROJ MPTS</b>										
FY 2008	IMT CORPORATION INGERSOLL, ON	C/FP	ROCK ISLAND, IL	Dec 07	Dec 08	8	404	Y		
FY 2009	IMT CORPORATION INGERSOLL, ON	C/OPT	ROCK ISLAND, IL	Dec 08	Dec 09	9	342	Y		
<b>CANISTER, BASE ASSY</b>										
FY 2009	TO BE SELECTED	C/FP	ROCK ISLAND, IL	Mar 09	Nov 09	9	31	Y		
<b>CANISTER, MPTS ASSY</b>										
FY 2009	TO BE SELECTED	C/FP	ROCK ISLAND, IL	Mar 09	Nov 09	9	109	Y		
<b>UNIVERSAL LIFTING PLUG</b>										
FY 2007	CORONET MACHINERY CORP YONKERS, NY	C/FP	ROCK ISLAND, IL	Mar 07	Feb 08	20	9	Y		
FY 2008	CORONET MACHINERY CORP YONKERS, NY	C/OPT	ROCK ISLAND, IL	Mar 08	Oct 08	9	8	Y		
FY 2009	CORONET MACHINERY CORP YONKERS, NY	C/OPT	ROCK ISLAND, IL	Mar 09	Oct 09	9	10	Y		
<b>PARACHUTE, MAIN</b>										
FY 2009	TO BE SELECTED	C/FP	ROCK ISLAND, IL	Jun 09	Dec 09	9	57	Y		
<b>PARACHUTE, DROGUE ASSY</b>										
FY 2009	TO BE SELECTED	C/FP	ROCK ISLAND, IL	Jun 09	Dec 09	9	33	Y		
<b>GROMMET</b>										
FY 2007	LC INDUSTRIES HAZELHURST, MS	SS/FP	ROCK ISLAND, IL	Mar 07	Feb 08	20	6	Y		

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

Date:  
February 2008

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
FY 2008	LC INDUSTRIES HAZELHURST, MS	SS/FP	ROCK ISLAND, IL	Jan 08	Oct 08	9	2	Y		
FY 2009	LC INDUSTRIES HAZELHURST, MS	SS/FP	ROCK ISLAND, IL	Jan 09	Oct 09	9	7	Y		
<b>PARACHUTE, MAIN SUPPORTS</b>										
FY 2009	TO BE SELECTED	C/FP	ROCK ISLAND, IL	Jun 09	Dec 09	37	3	Y		
<b>PARACHUTE, DROGUE SUPPORTS</b>										
FY 2009	TO BE SELECTED	C/FP	ROCK ISLAND, IL	Jun 09	Dec 09	9	2	Y		
<b>DELAY ELEMENT</b>										
FY 2009	TO BE SELECTED	C/FP	ROCK ISLAND, IL	Mar 09	Jul 09	9	64	Y		
<b>CANDLE</b>										
FY 2009	CRANE AAA CRANE, IN	SS/FP	ROCK ISLAND, IL	Dec 08	Aug 09	9	331	Y		

REMARKS:

<b>FY 08 / 09 BUDGET PRODUCTION SCHEDULE</b>															P-1 ITEM NOMENCLATURE PROJ, ARTILLERY, 155MM ILLUM, M485 (E26900)										Date: February 2008				
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COST ELEMENTS						Fiscal Year 08														Fiscal Year 09														Later
M F R	FY	S E R V	PROC QTY x1000	ACCEP PRIOR TO 1 OCT	BAL DUE AS OF 1 OCT	Calendar Year 08														Calendar Year 09														
						O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P					

LOAD, ASSEMBLE, PACK																																			
1	FY 07 P	A	21.60	0.00	21.60		3.00	3.00		4.00	4.00	4.00	3.60																					0.00	
1	FY 07	A	19.00	0.00	19.00												2.00	2.00	2.00	2.00	2.00	3.00	3.00	3.00									0.00		
1	FY 08	A	8.00	0.00	8.00			A																				2.00	2.00	2.00	2.00				0.00
1	FY 09	A	9.00	0.00	9.00															A														9.00	
1	FY 07	MC	26.00	0.00	26.00												2.00	2.00	2.00	4.00	4.00	4.00	4.00	4.00									0.00		
1	FY 08	MC	7.00	0.00	7.00																							2.00	2.00	2.00	1.00			0.00	
1	FY 09	MC	5.00	0.00	5.00																													5.00	
Total			95.60		95.60		3.00	3.00		4.00	4.00	4.00	3.60				4.00	4.00	4.00	6.00	6.00	7.00	7.00	7.00	4.00	4.00	4.00	3.00				14.00			
						O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P						

M F R	Name - Location	PRODUCTION RATES			Reached D+	MFR	ADMIN LEAD TIME		MFR After 1 Oct	TOTAL After 1 Oct	REMARKS	
		MIN	1-8-5	MAX			Prior 1 Oct	After 1 Oct				
1	PINE BLUFF ARSENAL (PBA), PINE BLUFF, AR	2.00	4.00	10.00		1	Initial	6	6	18	24	
							Reorder	3	3	18	21	
							Initial					
							Reorder					
							Initial					
							Reorder					
							Initial					
							Reorder					
							Initial					
							Reorder					



<b>FY 10 / 11 BUDGET PRODUCTION SCHEDULE</b>	P-1 ITEM NOMENCLATURE PROJ, ARTILLERY, 155MM ILLUM, M485 (E26900)	Date: February 2008
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COST ELEMENTS						Fiscal Year 10													Fiscal Year 11													Later
M F R	FY	S E R V	PROC QTY x1000	ACCEP PRIOR TO 1 OCT	BAL DUE AS OF 1 OCT	Calendar Year 10													Calendar Year 11													
						O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P			

LOAD, ASSEMBLE, PACK																																
1	FY 07 P	A	21.60	21.60																											0.00	
1	FY 07	A	19.00	19.00																											0.00	
1	FY 08	A	8.00	8.00																											0.00	
1	FY 09	A	9.00	0.00	9.00								2.00	2.00	2.00	3.00																0.00
1	FY 07	MC	26.00	26.00																											0.00	
1	FY 08	MC	7.00	7.00																											0.00	
1	FY 09	MC	5.00	0.00	5.00								2.00	2.00	1.00																0.00	
Total			95.60	81.60	14.00								4.00	4.00	3.00	3.00																
						O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P			

M F R	Name - Location	PRODUCTION RATES			Reached D+	MFR	ADMIN LEAD TIME		MFR After 1 Oct	TOTAL After 1 Oct	REMARKS	
		MIN	1-8-5	MAX			Prior 1 Oct	After 1 Oct				
1	PINE BLUFF ARSENAL (PBA), PINE BLUFF, AR	2.00	4.00	10.00		1	Initial	6	6	18	24	
							Reorder	3	3	18	21	
							Initial					
							Reorder					
							Initial					
							Reorder					
							Initial					
							Reorder					
							Initial					
							Reorder					

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

Date: February 2008

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

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

Program Elements for Code B Items:

Code:  
A

Other Related Program Elements:

	Prior Years	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013	To Complete	Total Prog
Proc Qty	28031	181	214	132	142	126	118	118		29062
Gross Cost	1268.2	49.8	57.1	54.3	59.2	54.1	52.0	53.1		1647.9
Less PY Adv Proc										
Plus CY Adv Proc										
Net Proc P1	1268.2	49.8	57.1	54.3	59.2	54.1	52.0	53.1		1647.9
Initial Spares										
Total Proc Cost	1268.2	49.8	57.1	54.3	59.2	54.1	52.0	53.1		1647.9
Flyaway U/C										
Weapon System Proc U/C										

**Description:**

The 155mm M107 is a multi-purpose High Explosive (HE) 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. This item is Code A, approved for service use.

**Justification:**

This is a training standard item used in both training and combat. The FY 2009 procurement supports annual training and builds a war reserve inventory in accordance with the Army's procurement goals.

TYPE CLASSIFICATION DATE: 1958

Exhibit P-5, Weapon AMMO Cost Analysis		Appropriation/Budget Activity/Serial No: Procurement of Ammunition, Army / 1 / Ammunition			P-1 Line Item Nomenclature: PROJ, ARTILLERY, 155MM HE, M107 (E27601)			Weapon System Type:		Date: February 2008	
AMMO Cost Elements		ID CD	FY 07			FY 08			FY 09		
			Total Cost \$000	Qty x1000	Unit Cost \$	Total Cost \$000	Qty x1000	Unit Cost \$	Total Cost \$000	Qty x1000	Unit Cost \$
<b>HARDWARE</b>											
LOAD, ASSEMBLE, PACK			14696	181	81	16772	214	78	11352	132	86
PROJ M107 MPTS			29365	184	159	34253	218	157	21885	135	163
*COMP B TYPE I GRADE A			10992	4114	3	12013	4869	2			
INSENSITIVE MUNITIONS FILL									16697	2059	8
PLUG, SHOCK ATTENUATING			1448	185	8	1851	219	8	975	135	7
GROMMET			392	186	2	430	220	2	253	136	2
<b>H/W SUBTOTAL</b>			<b>56893</b>			<b>65319</b>			<b>51162</b>		
<b>PRODUCTION SUPPORT COSTS</b>											
PRODUCTION ENGINEERING			2569			3534			3011		
QUALITY ASSURANCE			14			13			18		
ACCEPTANCE TESTING			175			220			130		
PACKAGING CRATING & HANDLING FOR COMP B			555								
<b>PROD SUPPORT SUBTOTAL</b>			<b>3313</b>			<b>3767</b>			<b>3159</b>		
<b>NON-RECURRING COSTS</b>											
*GOVERNMENT FURNISHED MATERIAL			-10992			-12013					
MATERIAL CHANGE - INSENSITIVE MUNITIONS			611								
<b>NON-RECURRING SUBTOTAL</b>			<b>-10381</b>			<b>-12013</b>					
<b>Total:</b>			<b>49825</b>		<b>275</b>	<b>57073</b>		<b>267</b>	<b>54321</b>		<b>412</b>

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

Date:  
February 2008

Appropriation/Budget Activity/Serial No: Procurement of Ammunition, Army/ 1/ Ammunition	Weapon System Type:	P-1 Line Item Nomenclature: PROJ, ARTILLERY, 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 \$000	Specs Avail Now?	Date Revsn Avail	RFP Issue Date
<b>LOAD, ASSEMBLE, PACK</b>										
FY 2007	AMERICAN ORDNANCE (IAAP) MIDDLETOWN, IA	SS/OPT	ROCK ISLAND, IL	Sep 07	Jun 08	181	79			
FY 2008	TO BE SELECTED	C/FP	ROCK ISLAND, IL	Sep 08	Sep 09	214	78	Y		
FY 2009	TO BE SELECTED	C/FP	ROCK ISLAND, IL	Mar 09	Mar 10	132	86	Y		
<b>PROJ M107 MPTS</b>										
FY 2007	GENERAL DYNAMICS ORD& TACTICAL SCRANTON, PA	C/FP	ROCK ISLAND, IL	Aug 07	Oct 07	184	159			
FY 2008	GENERAL DYNAMICS ORD& TACTICAL SCRANTON, PA	C/OPT	ROCK ISLAND, IL	Mar 08	Dec 08	218	157	Y		
FY 2009	GENERAL DYNAMICS ORD& TACTICAL SCRANTON, PA	C/OPT	ROCK ISLAND, IL	Mar 09	Sep 09	135	163	Y		
<b>*COMP B TYPE I GRADE A</b>										
FY 2007	STOCK ISSUE	N/A	N/A	-	-	4114				
FY 2008	STOCK ISSUE	N/A	N/A	-	-	4869				
FY 2009	STOCK ISSUE	N/A	N/A			3007				
<b>INSENSITIVE MUNITIONS FILL</b>										
FY 2009	TO BE SELECTED	C/FP	ROCK ISLAND, IL	Mar 09	Nov 09	2059	8	Y		
<b>PLUG, SHOCK ATTENUATING</b>										
FY 2007	CORONET MACHINERY CORP YONKERS, NY	C/OPT	ROCK ISLAND, IL	Jan 07	May 07	84	8			
FY 2007	J & M MACHINE PRODUCTS, INC. MUSKEGON, MI	C/OPT	ROCK ISLAND, IL	Jan 07	Jul 07	101	8			
FY 2008	CORONET MACHINERY CORP YONKERS, NY	C/OPT	ROCK ISLAND, IL	Mar 08	Sep 08	87	8	Y		
FY 2008	J & M MACHINE PRODUCTS, INC. MUSKEGON, MI	C/OPT	ROCK ISLAND, IL	Mar 08	Sep 08	132	8	Y		
FY 2009	CORONET MACHINERY CORP YONKERS, NY	C/OPT	ROCK ISLAND, IL	Mar 09	Jul 09	59	7	Y		

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

Date:  
February 2008

Appropriation/Budget Activity/Serial No: Procurement of Ammunition, Army/ 1/ Ammunition		Weapon System Type:	P-1 Line Item Nomenclature: PROJ, ARTILLERY, 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 \$000	Specs Avail Now?	Date Revsn Avail	RFP Issue Date	
FY 2009	J & M MACHINE PRODUCTS, INC. MUSKEGON, MI	C/OPT	ROCK ISLAND, IL	Mar 09	Jul 09	76	7	Y			
<b>GROMMET</b>											
FY 2007	LC INDUSTRIES HAZELHURST, MS	SS/FP	ROCK ISLAND, IL	Jan 07	Oct 07	186	2				
FY 2008	LC INDUSTRIES HAZELHURST, MS	C/OPT	ROCK ISLAND, IL	Mar 08	Sep 08	220	2	Y			
FY 2009	LC INDUSTRIES HAZELHURST, MS	C/OPT	ROCK ISLAND, IL	Mar 09	Jul 09	136	2	Y			

REMARKS: \* GOVERNMENT FURNISHED MATERIAL

FY 2007 - FY 2009 PLUG, SHOCK ATTENUATING IS AN AVERAGE UNIT COST FOR MULTIPLE PRODUCERS.



COST ELEMENTS					Fiscal Year 10													Fiscal Year 11													Later	
M F R	FY	S E R V	PROC QTY x1000	ACCEP PRIOR TO 1 OCT	BAL DUE AS OF 1 OCT	Calendar Year 10													Calendar Year 11													
						O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P			

LOAD, ASSEMBLE, PACK																														
1	FY 07	A	181	181																										0
2	FY 08	A	214	75	139			75			64																			0
2	FY 09	A	132	0	132						75			57																0
Total			527	256	271			75			139			57																
O C T N O V D E C J A N F E B M A R A P R M A Y J U N J U L A U G S E P O C T N O V D E C J A N F E B M A R A P R M A Y J U N J U L A U G S E P																														

M F R	Name - Location	PRODUCTION RATES			Reached D+	MFR	ADMIN LEAD TIME		MFR After 1 Oct	TOTAL After 1 Oct	REMARKS	
		MIN	1-8-5	MAX			Prior 1 Oct	After 1 Oct				
1	AMERICAN ORDNANCE (IAAP), MIDDLETOWN, IA	9	25	42		1	Initial	6	6	12	18	THE M107 IS PRODUCED AT IOWA AAP ON THE SAME LINE AS THE M795. IOWA AAP DELIVERS ON A QUARTERLY BASIS TO ALLOW FOR PRODUCTION FLEXIBILITY BETWEEN THE TWO PROGRAMS.
						2	Reorder	6	6	12	18	
2	TO BE SELECTED	9	25	42		1	Initial	6	12	12	24	
						2	Reorder	6	6	12	18	
							Initial					
							Reorder					
							Initial					
							Reorder					

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

Date: February 2008

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

P-1 Item Nomenclature  
PROJ, ARTILLERY, 155MM, WP SMOKE, M110 (E27900)

Program Elements for Code B Items:

Code:  
A

Other Related Program Elements:

	Prior Years	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013	To Complete	Total Prog
Proc Qty	53		11	12	12	11	10	11		120
Gross Cost	41.9	4.2	9.3	9.7	9.7	9.5	9.0	9.2		102.4
Less PY Adv Proc										
Plus CY Adv Proc										
Net Proc P1	41.9	4.2	9.3	9.7	9.7	9.5	9.0	9.2		102.4
Initial Spares										
Total Proc Cost	41.9	4.2	9.3	9.7	9.7	9.5	9.0	9.2		102.4
Flyaway U/C										
Weapon System Proc U/C										

**Description:**

The 155mm Smoke WP M110A2 projectile is a steel shell body filled with 15.6 pounds of White Phosphorous (WP), a M54A1 burster extending through the center, an adapter in the nose of the projectile that is threaded to receive the fuze and an aluminum plug sealing the base of the tube. A lifting plug is installed in the fuze cavity for shipping. A Point Detonating Fuze is normally used; however, a mechanical or electronic time fuze may also be utilized. This round is fired from 155mm howitzer platforms to provide immediate screening smoke and marking. This item is Code A, approved for service use.

**Justification:**

This is a training standard item used in both training and combat. The FY 2009 procurement supports annual training and builds a war reserve inventory in accordance with the Army's procurement goals.

TYPE CLASSIFICATION DATE: 1972



AMMO Cost Elements	ID CD	FY 07			FY 08			FY 09		
		Total Cost \$000	Qty x1000	Unit Cost \$	Total Cost \$000	Qty x1000	Unit Cost \$	Total Cost \$000	Qty x1000	Unit Cost \$
<b>HARDWARE</b>										
LOAD, ASSEMBLE, PACK					3297	11	316	2748	12	235
PROJ 155MM WP M110A2 MPTS					3245	11	305	3040	12	255
CHG BURSTER M54A1 ASSY					340	11	32	1276	12	106
CASING BURSTER					676	11	63	785	12	66
TNT TYPE I FLAKE					5	2	2	6	2	2
CYCLOTOL 75/25 TYPE 1					152	19	8	177	21	8
UNIVERSAL LIFTING PLUG					86	11	8	117	12	10
GROMMET					21	11	2	23	12	2
<b>H/W SUBTOTAL</b>					<b>7822</b>			<b>8172</b>		
<b>PRODUCTION SUPPORT COSTS</b>										
PRODUCTION ENGINEERING				805	1000			1029		
QUALITY ASSURANCE				16	105			97		
ACCEPTANCE TESTING					363			382		
<b>PROD SUPPORT SUBTOTAL</b>				<b>821</b>	<b>1468</b>			<b>1508</b>		
<b>NON-RECURRING COSTS</b>										
MATERIAL CHANGE - BURSTER				3346						
<b>NON-RECURRING SUBTOTAL</b>				<b>3346</b>						
<b>Total:</b>				<b>4167</b>	<b>9290</b>		<b>845</b>	<b>9680</b>		<b>807</b>

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

Date:  
February 2008

Appropriation/Budget Activity/Serial No: Procurement of Ammunition, Army/ 1/ Ammunition	Weapon System Type:	P-1 Line Item Nomenclature: PROJ, ARTILLERY, 155MM, WP SMOKE, M110 (E27900)								
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>LOAD, ASSEMBLE, PACK</b>										
FY 2008	PINE BLUFF ARSENAL (PBA) PINE BLUFF, AR	SS/FP	ROCK ISLAND, IL	Mar 08	Jul 09	11	316	Y		
FY 2009	PINE BLUFF ARSENAL (PBA) PINE BLUFF, AR	SS/FP	ROCK ISLAND, IL	Mar 09	Jul 10	12	235	Y		
<b>PROJ 155MM WP M110A2 MPTS</b>										
FY 2008	TO BE SELECTED	C/FP	ROCK ISLAND, IL	Mar 08	Dec 08	11	305	Y		
FY 2009	TO BE SELECTED	C/FP	ROCK ISLAND, IL	Mar 09	Dec 09	12	255	Y		
<b>CHG BURSTER M54A1 ASSY</b>										
FY 2008	TO BE SELECTED	C/FP	ROCK ISLAND, IL	Mar 08	Mar 09	11	32	Y		
FY 2009	TO BE SELECTED	C/FP	ROCK ISLAND, IL	Mar 09	Mar 10	12	106	Y		
<b>CASING BURSTER</b>										
FY 2008	TO BE SELECTED	C/FP	ROCK ISLAND, IL	Mar 08	Dec 08	11	63	Y		
FY 2009	TO BE SELECTED	C/FP	ROCK ISLAND, IL	Mar 09	Dec 09	12	66	Y		
<b>TNT TYPE I FLAKE</b>										
FY 2008	TO BE SELECTED	C/FP	ROCK ISLAND, IL	Apr 08	Oct 08	2	2	Y		
FY 2009	TO BE SELECTED	C/FP	ROCK ISLAND, IL	Apr 09	Oct 09	2	2	Y		
<b>CYCLOTOL 75/25 TYPE 1</b>										
FY 2008	TO BE SELECTED	C/FP	ROCK ISLAND, IL	Apr 08	Jul 08	19	8	Y		
FY 2009	TO BE SELECTED	C/FP	ROCK ISLAND, IL	Apr 09	Jul 09	21	8	Y		
<b>UNIVERSAL LIFTING PLUG</b>										
FY 2008	CORONET MACHINERY CORP YONKERS, NY	C/OPTION	ROCK ISLAND, IL	Mar 08	Jul 08	11	8	Y		
FY 2009	CORONET MACHINERY CORP YONKERS, NY	C/OPTION	ROCK ISLAND, IL	Mar 09	Jul 09	12	10	Y		
<b>GROMMET</b>										
FY 2008	LC INDUSTRIES HAZELHURST, MS	SS/FP	ROCK ISLAND, IL	Apr 08	Aug 08	11	2	Y		
FY 2009	LC INDUSTRIES HAZELHURST, MS	SS/FP	ROCK ISLAND, IL	Apr 09	Aug 09	12	2	Y		
REMARKS:										

<b>FY 08 / 09 BUDGET PRODUCTION SCHEDULE</b>	P-1 ITEM NOMENCLATURE PROJ, ARTILLERY, 155MM, WP SMOKE, M110 (E27900)	Date: February 2008
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COST ELEMENTS						Fiscal Year 08														Fiscal Year 09														Later
M F R	FY	S E R V	PROC QTY x1000	ACCEP PRIOR TO 1 OCT	BAL DUE AS OF 1 OCT	Calendar Year 08														Calendar Year 09														
						O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P					

LOAD, ASSEMBLE, PACK																																
1	FY 07 P	A	56	16	40																											0
1	FY 08	A	11	0	11						A																			3	8	0
1	FY 09	A	12	0	12																					A						12
1	FY 07 P	MC	7	0	7							7																				0
1	FY 08	MC	6	0	6																									6		0
Total			92	16	76							9	8	10	10														9	8	12	
						O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P			

M F R	Name - Location	PRODUCTION RATES			Reached D+	MFR	ADMIN LEAD TIME		MFR After 1 Oct	TOTAL After 1 Oct	REMARKS		
		MIN	1-8-5	MAX			1	Initial				Prior 1 Oct	After 1 Oct
1	PINE BLUFF ARSENAL (PBA), PINE BLUFF, AR	8	10	17		1	Initial	8	8	16	24		
							Reorder	6	6	16	22		
							Initial						
							Reorder						
							Initial						
							Reorder						
							Initial						
							Reorder						
							Initial						
							Reorder						

<b>FY 10 / 11 BUDGET PRODUCTION SCHEDULE</b>	P-1 ITEM NOMENCLATURE PROJ, ARTILLERY, 155MM, WP SMOKE, M110 (E27900)	Date: February 2008
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COST ELEMENTS					Fiscal Year 10													Fiscal Year 11													Later	
M F R	FY	S E R V	PROC QTY x1000	ACCEP PRIOR TO 1 OCT	BAL DUE AS OF 1 OCT	Calendar Year 10													Calendar Year 11													
						O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P			

LOAD, ASSEMBLE, PACK																																																											
1	FY 07 P	A	56	56																										0																													
1	FY 08	A	11	11																										0																													
1	FY 09	A	12	0	12								12																	0																													
1	FY 07 P	MC	7	7																										0																													
1	FY 08	MC	6	6																										0																													
Total																																																											
<table border="0" style="width:100%;"> <tr> <td style="text-align: center;">O C T</td> <td style="text-align: center;">N O V</td> <td style="text-align: center;">D E C</td> <td style="text-align: center;">J A N</td> <td style="text-align: center;">F E B</td> <td style="text-align: center;">M A R</td> <td style="text-align: center;">A P R</td> <td style="text-align: center;">M A Y</td> <td style="text-align: center;">J U N</td> <td style="text-align: center;">J U L</td> <td style="text-align: center;">A U G</td> <td style="text-align: center;">S E P</td> <td style="text-align: center;">O C T</td> <td style="text-align: center;">N O V</td> <td style="text-align: center;">D E C</td> <td style="text-align: center;">J A N</td> <td style="text-align: center;">F E B</td> <td style="text-align: center;">M A R</td> <td style="text-align: center;">A P R</td> <td style="text-align: center;">M A Y</td> <td style="text-align: center;">J U N</td> <td style="text-align: center;">J U L</td> <td style="text-align: center;">A U G</td> <td style="text-align: center;">S E P</td> <td colspan="6"></td> </tr> </table>																														O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P						
O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P																																				

M F R	Name - Location	PRODUCTION RATES			Reached D+	MFR	ADMIN LEAD TIME		MFR After 1 Oct	TOTAL After 1 Oct	REMARKS	
		MIN	1-8-5	MAX			Prior 1 Oct	After 1 Oct				
1	PINE BLUFF ARSENAL (PBA), PINE BLUFF, AR	8	10	17		1	Initial	8	8	16	24	
							Reorder	6	6	16	22	
							Initial					
							Reorder					
							Initial					
							Reorder					
							Initial					
							Reorder					
							Initial					
							Reorder					

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

Date: February 2008

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

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

Program Elements for Code B Items:

Code:  
A

Other Related Program Elements:

	Prior Years	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013	To Complete	Total Prog
Proc Qty	905									905
Gross Cost	786.5	7.0	5.1	5.2	5.2	5.2	5.3	5.4		824.8
Less PY Adv Proc										
Plus CY Adv Proc										
Net Proc P1	786.5	7.0	5.1	5.2	5.2	5.2	5.3	5.4		824.8
Initial Spares										
Total Proc Cost	786.5	7.0	5.1	5.2	5.2	5.2	5.3	5.4		824.8
Flyaway U/C										
Weapon System Proc U/C										

**Description:**

The 155mm Recapitulation program funds the refurbishment of M864 Basebleed Extended Range Dual Purpose Improved Conventional Munition (ER-DPICM) artillery projectiles to provide a self-destruct DPICM capability. The program strategy is to download M42 and M46 DPICM grenades from M864 projectiles, remove existing M223 grenade fuzes and incorporate a Self-Destruct Fuze (SDF) to the grenades to greatly reduce hazardous duds on the battlefield, as evidenced with the use of DPICM during Operation Desert Storm and Operation Iraqi Freedom, and then Load, Assemble and Pack (LAP) the rounds. The rounds will also include the application of an extended range ordnance (ERO) obturator for increased gun tube life.

The current M864 projectile consists of three components: An ogive, containing an expulsion charge (or self registration charge) at the base of the fuze well; the warhead, a payload of 72 M42/M46 DPICM grenades contained within a hollow steel body; and a solid propellant baseburn unit containing a composite propellant grain and igniter. The grain is ignited by the hot propellant charge gases in the gun chamber and self sustained by the igniter. Burning continues for approximately thirty seconds, significantly reducing base drag resulting in extended range. The M864 is compatible with all 155mm howitzers. The round is compatible with the M203A1 maximum charge and the Modular Artillery Charge System (MACS). This item is Code A, approved for service use.

**Justification:**

This is a war reserve item. The FY 2009 funding retrofits 5,000 M864 Basebleed ER-DPICM projectiles.

TYPE CLASSIFICATION DATE: December 1987

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

Date: February 2008

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

P-1 Item Nomenclature  
PROJ 155MM EXTENDED RANGE XM982 (E80100)

Program Elements for Code B Items:

Code:  
B

Other Related Program Elements:  
0604814A

	Prior Years	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013	To Complete	Total Prog
Proc Qty	448	627	197	262	717	525	1235	1709	24280	30000
Gross Cost	86.1	69.9	28.6	34.2	64.8	61.9	85.9	102.3	1074.8	1608.5
Less PY Adv Proc										
Plus CY Adv Proc										
Net Proc P1	86.1	69.9	28.6	34.2	64.8	61.9	85.9	102.3	1074.8	1608.5
Initial Spares										
Total Proc Cost	86.1	69.9	28.6	34.2	64.8	61.9	85.9	102.3	1074.8	1608.5
Flyaway U/C										
Weapon System Proc U/C	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	1.0

**Description:**

This budget line item includes the Excalibur family of munitions for the use in the Lightweight 155mm, Paladin, and the Non-Line of Sight-Cannon (NLOS-C).

FY 2007 funding total includes \$0 received in GWOT supplemental.

FY 2008 funding total includes \$0 received in The Consolidated Appropriations Act, 2008 (P.L. 110-161).

FY 2008 funding totals do not include \$0 previously requested for current FY 2008 GWOT 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: PROJ 155MM EXTENDED RANGE XM982 (E80100)			Weapon System Type:		Date: February 2008	
<b>AMMO Cost Elements</b>		ID	<b>FY 07</b>			<b>FY 08</b>			<b>FY 09</b>		
		CD	Total Cost	Qty	Unit Cost	Total Cost	Qty	Unit Cost	Total Cost	Qty	Unit Cost
			\$000	Units	\$000	\$000	Units	\$000	\$000	Units	\$000
Proj 155MM Extend Rng: XM982-U Excalibur			69862	627	111	28586	197	145	34220	262	131
<b>Total:</b>			<b>69862</b>		<b>111</b>	<b>28586</b>		<b>145</b>	<b>34220</b>		<b>131</b>

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

Date: February 2008

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

P-1 Item Nomenclature  
PROJ 155MM EXTENDED RANGE: XM982-U EXCALIBUR (E80103)

Program Elements for Code B Items:

Code:  
B

Other Related Program Elements:  
0604814A

	Prior Years	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013	To Complete	Total Prog
Proc Qty	448	627	197	262	717	525	1235	1709	24280	30000
Gross Cost	86.1	69.9	28.6	34.2	64.8	61.9	85.9	102.3	1074.8	1608.5
Less PY Adv Proc										
Plus CY Adv Proc										
Net Proc P1	86.1	69.9	28.6	34.2	64.8	61.9	85.9	102.3	1074.8	1608.5
Initial Spares										
Total Proc Cost	86.1	69.9	28.6	34.2	64.8	61.9	85.9	102.3	1074.8	1608.5
Flyaway U/C										
Weapon System Proc U/C	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	1.0

**Description:**

Excalibur provides improved fire support through a Precision Guided Extended Range family of munitions with greatly increased accuracy and reduced collateral damage. The Excalibur is compatible with the M777A2 Lightweight 155mm Howitzer (LW155), the Paladin howitzer, and the Future Combat Systems (FCS) Non-Line of Sight Cannon (NLOS-C). Excalibur provides a 33% range increase over current Rocket Assisted Projectiles with a 10 meter accuracy (circular error probable (CEP)) at all ranges, and is also highly resistant to GPS jamming. This item is Code B, not approved for service use.

**Justification:**

Excalibur is an international program, teamed with the Kingdom of Sweden (KoS), which contributes resources towards the development in accordance with an established Project Agreement. The Excalibur guided projectile program is using an incremental development approach to provide a combat capability to the Soldier as quickly as possible and to deliver advanced capabilities at lower costs as technology continues to mature and additional cost-reduction opportunities are developed. Increment 1a-2 delivered in FY 2009 will provide greatly increased range to LW155, Paladin and FCS Cannon forces Army-wide when fielded. The third planned Increment Artillery Precision, will be fielded in FY 2013 and will provide a further performance improvement while significantly lowering unit costs.

This is a war reserve item. The FY 2009 procurement builds a war reserve inventory in accordance with the Army's procurement goals.

TYPE CLASSIFICATION: TC Urgent Material Release: Increment 1a-1 April 2007



Exhibit P-5, Weapon AMMO Cost Analysis	Appropriation/Budget Activity/Serial No: Procurement of Ammunition, Army / 1 / Ammunition	P-1 Line Item Nomenclature: PROJ 155MM EXTENDED RANGE: XM982-U EXCALIBUR (E80103)			Weapon System Type:	Date: February 2008				
AMMO Cost Elements	ID	FY 07			FY 08			FY 09		
	CD	Total Cost	Qty	Unit Cost	Total Cost	Qty	Unit Cost	Total Cost	Qty	Unit Cost
		\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000
<b>AMMUNITION HARDWARE</b>										
Complete Round		66702	627	106	24564	197	125	31657	262	121
Container System		847	627	1	236	197	1	320	262	1
<b>SubTotal AMMO Hardware</b>		<b>67549</b>			<b>24800</b>			<b>31977</b>		
<b>PRODUCTION SUPPORT COSTS</b>										
Production Engineering		1374			2546			1549		
Quality Assurance		429			744			484		
Acceptance Testing		161			496			210		
<b>SubTotal Prod. Support</b>		<b>1964</b>			<b>3786</b>			<b>2243</b>		
<b>COST - Nonrecurring</b>										
First Article Testing		349								
<b>SubTotal Nonrecurring</b>		<b>349</b>								
<b>Total:</b>		<b>69862</b>		<b>111</b>	<b>28586</b>		<b>145</b>	<b>34220</b>		<b>131</b>

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

Date:  
February 2008

Appropriation/Budget Activity/Serial No: Procurement of Ammunition, Army/ 1/ Ammunition		Weapon System Type:	P-1 Line Item Nomenclature: PROJ 155MM EXTENDED RANGE: XM982-U EXCALIBUR (E80103)							
WBS Cost Elements:	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY Units	Unit Cost \$000	Specs Avail Now?	Date Revsn Avail	RFP Issue Date
<b>Complete Round</b>										
FY 2007	Raytheon Tucson, AZ	SS/FPI	ARDEC, Picatinny, NJ	Apr 07	Jan 08	627	106	Y		
FY 2008	Raytheon Tucson, AZ	Option	ARDEC, Picatinny, NJ	Feb 08	Nov 08	197	125	Y		
FY 2009	Raytheon Tucson, AZ	Option	ARDEC, Picatinny, NJ	Nov 08	Aug 09	262	121	Y		
<b>Container System</b>										
FY 2007	Conco Louisville, KY	C/FP	ARDEC, Picatinny, NJ	Jun 07	Dec 07	627	1	Y		
FY 2008	Conco Louisville, KY	Option	ARDEC, Picatinny, NJ	Jan 08	Oct 08	197	1	Y		
FY 2009	Conco Louisville, KY	Option	ARDEC, Picatinny, NJ	Nov 08	Jul 09	262	1	Y		

REMARKS:

<b>FY 08 / 09 BUDGET PRODUCTION SCHEDULE</b>	P-1 ITEM NOMENCLATURE PROJ 155MM EXTENDED RANGE: XM982-U EXCALIBUR (E80103)	Date: February 2008
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COST ELEMENTS						Fiscal Year 08												Fiscal Year 09												Later
M F R	FY	S E R V	PROC QTY Units	ACCEP PRIOR TO 1 OCT	BAL DUE AS OF 1 OCT	Calendar Year 08												Calendar Year 09												
						O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	

Complete Round																																		
1	FY 07 &P	A	1075	290	785	50	55	53	60	70	70	80	90	90	90	77																		0
1	FY 08	A	197	0	197					A										22	22	22	22	22	22	22	22	21					0	
1	FY 09	A	262	0	262														A										21	21			220	
1	FY 10	A	717	0	717																													717
2	FY 11	A	525	0	525																													525
2	FY 12	A	1235	0	1235																													1235
2	FY 13	A	1709	0	1709																													1709
1	FY 07	FMS	291	0	291												23	100	100	68														0
1	FY 08	MC	152	0	152																19	19	19	19	19	19	19	19						0
Total																																		
6163      290      5873      50      55      53      60      70      70      80      90      90      90      100      100      100      90      41      41      41      41      41      41      41      41      40      21      21      4406																																		
O C T      N O V      D E C      J A N      F E B      M A R      A P R      M A Y      J U N      J U L      A U G      S E P      O C T      N O V      D E C      J A N      F E B      M A R      A P R      M A Y      J U N      J U L      A U G      S E P																																		

M F R	Name - Location	PRODUCTION RATES			Reached D+	MFR	ADMIN LEAD TIME		MFR After 1 Oct	TOTAL After 1 Oct	REMARKS
		MIN	1-8-5	MAX			Prior 1 Oct	After 1 Oct			
1	Raytheon, Tucson, AZ	25	100	120	1	Initial	4	7	9	16	
						Reorder	3	2	11	13	
2	TBS	20	60	120	2	Initial	4	2	9	11	
						Reorder	3	2	9	11	
						Initial					
						Reorder					
						Initial					
						Reorder					
						Initial					
						Reorder					

<b>FY 10 / 11 BUDGET PRODUCTION SCHEDULE</b>	P-1 ITEM NOMENCLATURE PROJ 155MM EXTENDED RANGE: XM982-U EXCALIBUR (E80103)	Date: February 2008
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COST ELEMENTS						Fiscal Year 10												Fiscal Year 11												Later
M F R	FY	S E R V	PROC QTY Units	ACCEP PRIOR TO 1 OCT	BAL DUE AS OF 1 OCT	Calendar Year 10												Calendar Year 11												
						O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	

Complete Round																														
1	FY 07 &P	A	1075	1075																										0
1	FY 08	A	197	197																										0
1	FY 09	A	262	42	220	22	22	22	22	22	22	22	22	22	22															0
1	FY 10	A	717	0	717		A								45	55	56	60	60	60	60	64	64	64	64	65				0
2	FY 11	A	525	0	525																						43	43		439
2	FY 12	A	1235	0	1235																									1235
2	FY 13	A	1709	0	1709																									1709
1	FY 07	FMS	291	291																										0
1	FY 08	MC	152	152																										0
Total																														
			6163	1757	4406	22	22	22	22	22	22	22	22	22	45	55	56	60	60	60	60	64	64	64	64	65	43	43	3383	
						O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	

M F R	Name - Location	PRODUCTION RATES			Reached D+	MFR	ADMIN LEAD TIME		MFR After 1 Oct	TOTAL After 1 Oct	REMARKS
		MIN	1-8-5	MAX			Prior 1 Oct	After 1 Oct			
						4	7	9	16		
1	Raytheon, Tucson, AZ	25	100	120		3	2	11	13		
2	TBS	20	60	120		4	2	9	11		
						3	2	9	11		

<b>FY 12 / 13 BUDGET PRODUCTION SCHEDULE</b>	P-1 ITEM NOMENCLATURE PROJ 155MM EXTENDED RANGE: XM982-U EXCALIBUR (E80103)	Date: February 2008
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COST ELEMENTS					Fiscal Year 12										Fiscal Year 13										Later	
M F R	FY	S E R V	PROC QTY Units	ACCEP PRIOR TO 1 OCT	BAL DUE AS OF 1 OCT	Calendar Year 12										Calendar Year 13										
						O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R		M A Y

Complete Round																															
1	FY 07 &P	A	1075	1075																							0				
1	FY 08	A	197	197																							0				
1	FY 09	A	262	262																							0				
1	FY 10	A	717	717																							0				
2	FY 11	A	525	86	439	43	44	44	44	44	44	44	44	44													0				
2	FY 12	A	1235	0	1235		A								65	85	105	105	105	105	107	107	107	107	117	120	0				
2	FY 13	A	1709	0	1709														A										125	135	1449
1	FY 07	FMS	291	291																							0				
1	FY 08	MC	152	152																							0				
Total			6163	2780	3383	43	44	44	44	44	44	44	44	44	65	85	105	105	105	105	107	107	107	107	117	120	125	135	1449		
						O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P		

M F R	Name - Location	PRODUCTION RATES			Reached D+	MFR	ADMIN LEAD TIME		MFR After 1 Oct	TOTAL After 1 Oct	REMARKS		
		MIN	1-8-5	MAX			1	Initial				Prior 1 Oct	After 1 Oct
1	Raytheon, Tucson, AZ	25	100	120		1	4	7	9	16			
							3	2	11	13			
2	TBS	20	60	120		2	4	2	9	11			
							3	2	9	11			

<b>FY 14 / 15 BUDGET PRODUCTION SCHEDULE</b>	P-1 ITEM NOMENCLATURE PROJ 155MM EXTENDED RANGE: XM982-U EXCALIBUR (E80103)	Date: February 2008
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COST ELEMENTS					Fiscal Year 14										Fiscal Year 15										Later	
M F R	FY	S E R V	PROC QTY Units	ACCEP PRIOR TO 1 OCT	BAL DUE AS OF 1 OCT	Calendar Year 14										Calendar Year 15										
						O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R		M A Y

Complete Round																														
1	FY 07 &P	A	1075	1075																										0
1	FY 08	A	197	197																										0
1	FY 09	A	262	262																										0
1	FY 10	A	717	717																										0
2	FY 11	A	525	525																										0
2	FY 12	A	1235	1235																										0
2	FY 13	A	1709	260	1449	145	145	145	145	145	145	145	145	144																0
1	FY 07	FMS	291	291																										0
1	FY 08	MC	152	152																										0
Total			6163	4714	1449	145	145	145	145	145	145	145	145	144																
					O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P		

M F R	Name - Location	PRODUCTION RATES			Reached D+	MFR	ADMIN LEAD TIME		MFR After 1 Oct	TOTAL After 1 Oct	REMARKS	
		MIN	1-8-5	MAX			1	Initial				After 1 Oct
1	Raytheon, Tucson, AZ	25	100	120		1	Initial	4	7	9	16	
							Reorder	3	2	11	13	
2	TBS	20	60	120		2	Initial	4	2	9	11	
							Reorder	3	2	9	11	
							Initial					
							Reorder					
							Initial					
							Reorder					
							Initial					
							Reorder					

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

Date: February 2008

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

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

Program Elements for Code B Items:

Code:

Other Related Program Elements:

	Prior Years	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013	To Complete	Total Prog
Proc Qty										
Gross Cost	575.2	77.7	77.7	43.3	61.0	59.9	61.3	62.6		1018.8
Less PY Adv Proc										
Plus CY Adv Proc										
Net Proc P1	575.2	77.7	77.7	43.3	61.0	59.9	61.3	62.6		1018.8
Initial Spares										
Total Proc Cost	575.2	77.7	77.7	43.3	61.0	59.9	61.3	62.6		1018.8
Flyaway U/C										
Weapon System Proc U/C										

**Description:**

This budget line item funds MACS, All Types.

**Justification:**

FY 2007 funding total includes \$20 million received in GWOT supplemental.  
 FY 2008 funding total includes \$18 million received in The Consolidated Appropriations Act, 2008 (P.L. 110-161).  
 FY 2008 totals do not include \$2 million previously requested for current FY 2008 GWOT 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: Modular Artillery Charge System (MACS), All Types (E27501)			Weapon System Type:		Date: February 2008	
<b>AMMO Cost Elements</b>		ID CD	<b>FY 07</b>			<b>FY 08</b>			<b>FY 09</b>		
			Total Cost	Qty	Unit Cost	Total Cost	Qty	Unit Cost	Total Cost	Qty	Unit Cost
			\$000	x1000	\$	\$000	x1000	\$	\$000	x1000	\$
E27502 MACS M231			22455	268	84	28181	311	91	10101	107	94
ER8021 MACS M232			55233	486	114	49489	402	123	33237	246	135
<b>Total:</b>			<b>77688</b>			<b>77670</b>			<b>43338</b>		



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

Date: February 2008

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

P-1 Item Nomenclature  
MODULAR ARTILLERY CHARGE SYSTEM (MACS), M231 (E27502)

Program Elements for Code B Items:

Code:  
A

Other Related Program Elements:

	Prior Years	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013	To Complete	Total Prog
Proc Qty	3184	268	311	107	273	261	258	255		4917
Gross Cost	259.5	22.5	28.2	10.1	26.7	26.6	27.4	28.2		429.1
Less PY Adv Proc										
Plus CY Adv Proc										
Net Proc P1	259.5	22.5	28.2	10.1	26.7	26.6	27.4	28.2		429.1
Initial Spares										
Total Proc Cost	259.5	22.5	28.2	10.1	26.7	26.6	27.4	28.2		429.1
Flyaway U/C										
Weapon System Proc U/C										

**Description:**

The Modular Artillery Charge System (MACS), M231 "Low Zone" is intended for use with all US 155mm cannon field artillery systems. The M231 is a "low-zone" increment designed to achieve ranges from 3.0 to 12 kilometers. Each MACS increment includes propellant, an ignition system, and a combustible case. Packaging permits long-term storage and helps protect the items from unplanned stimuli. This item is Code A, approved for service use.

**Justification:**

This is a training standard item used in both training and combat. The FY 2009 procurement supports annual training and builds a war reserve inventory in accordance with the Army's procurement goals.

TYPE CLASSIFICATION DATE: October 99

Exhibit P-5, Weapon AMMO Cost Analysis	Appropriation/Budget Activity/Serial No: Procurement of Ammunition, Army / 1 / Ammunition	P-1 Line Item Nomenclature: MODULAR ARTILLERY CHARGE SYSTEM (MACS), M231 (E27502)			Weapon System Type:	Date: February 2008					
AMMO Cost Elements		ID CD	FY 07			FY 08			FY 09		
			Total Cost	Qty	Unit Cost	Total Cost	Qty	Unit Cost	Total Cost	Qty	Unit Cost
			\$000	x1000	\$	\$000	x1000	\$	\$000	x1000	\$
<b>AMMUNITION HARDWARE</b>											
Load, Assemble, and Pack			3974	268	15	5287	311	17	1819	107	17
Combustible Case Sets			7220	288	25	9600	320	30	3300	110	30
Propellant, Single Base, M231			4536	1008	5	5064	1089	5	1744	375	5
Ignition System Propellant			157	19	8	174	20	9	61	7	9
Lap Containers			2785	73	38	4000	80	50	1400	28	50
Black Powder			243	18	14	285	20	14	100	7	14
<b>SubTotal AMMO Hardware</b>			<b>18915</b>			<b>24410</b>			<b>8424</b>		
<b>Production Support Costs</b>											
Production Engineering			1267			1662			996		
Quality Assurance			148			186			156		
Testing			725			739			425		
Value Engineering			100			100			100		
<b>SubTotal Prod. Support</b>			<b>2240</b>			<b>2687</b>			<b>1677</b>		
<b>Non Recurring Cost</b>											
Fielding			1300								
Nitrocellulose Qualification						1084					
<b>Sub Total Costs Non Recurring</b>			<b>1300</b>			<b>1084</b>					
<b>Total:</b>			<b>22455</b>		<b>84</b>	<b>28181</b>		<b>91</b>	<b>10101</b>		<b>94</b>

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

Date:  
February 2008

Appropriation/Budget Activity/Serial No: Procurement of Ammunition, Army/ 1/ Ammunition	Weapon System Type:	P-1 Line Item Nomenclature: MODULAR ARTILLERY CHARGE SYSTEM (MACS), M231 (E27502)								
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>Load, Assemble, and Pack</b>										
FY 2007	American Ordnance Middletown, IA	SS/OPT	Picatinny, NJ	Feb 07	Jul 08	268	15	Y		
FY 2008	To Be Selected	C/FP	Picatinny, NJ	May 08	Mar 09	311	17	Y		
FY 2009	To Be Selected	SS/OPT	Picatinny, NJ	Mar 09	Sep 09	107	17	Y		
<b>Combustible Case Sets</b>										
FY 2007	Armtec Coachella, CA	CM-5/FP	Picatinny, NJ	Feb 07	Oct 07	288	25	Y		
FY 2008	Armtec Coachella, CA	SS/MY-1	Picatinny, NJ	Apr 08	Dec 08	320	30	Y		
FY 2009	Armtec Coachella, CA	SS/MY-2	Picatinny, NJ	Mar 09	Aug 09	110	30	Y		
<b>Propellant, Single Base, M231</b>										
FY 2007	Alliant Techsystems Radford, VA	C/FP	Rock Island, IL	Feb 07	Mar 08	1008	5	Y		
FY 2008	Alliant Techsystems Radford, VA	C/FP	Rock Island, IL	Feb 08	Feb 09	1089	5	Y		
FY 2009	Alliant Techsystems Radford, VA	SS/OPT	Rock Island, IL	Mar 09	Aug 09	375	5	Y		
<b>Ignition System Propellant</b>										
FY 2007	GOEX Doyline, LA	SS/OPT	Picatinny, NJ	Mar 07	Mar 08	19	8	Y		
FY 2008	GOEX Doyline, LA	SS/OPT	Picatinny, NJ	Mar 08	Feb 09	20	9	Y		
FY 2009	To Be Selected	SS/OPT	Picatinny, NJ	Mar 09	Aug 09	7	9	Y		
<b>Lap Containers</b>										
FY 2007	Conco Louisville, KY	SS/OPT	Picatinny, NJ	Jun 07	Mar 08	73	38	Y		
FY 2008	Conco Louisville, KY	SS/OPT	Picatinny, NJ	Apr 08	Feb 09	80	50	Y		
FY 2009	To Be Selected	C/FP	Picatinny, NJ	Mar 09	Aug 09	28	50	Y		

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

Date:  
February 2008

Appropriation/Budget Activity/Serial No: Procurement of Ammunition, Army/ 1/ Ammunition	Weapon System Type:	P-1 Line Item Nomenclature: MODULAR ARTILLERY CHARGE SYSTEM (MACS), M231 (E27502)
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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
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REMARKS:

<b>FY 08 / 09 BUDGET PRODUCTION SCHEDULE</b>	P-1 ITEM NOMENCLATURE MODULAR ARTILLERY CHARGE SYSTEM (MACS), M231 (E27502)	Date: February 2008
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COST ELEMENTS						Fiscal Year 08														Fiscal Year 09														Later
MFR	FY	S E R V	PROC QTY x1000	ACCEP PRIOR TO 1 OCT	BAL DUE AS OF 1 OCT	Calendar Year 08														Calendar Year 09														
						O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P					
Load, Assemble, and Pack																																		
1	FY 07 &P	A	531	0	531	55	28	26	26	26	26	26	26	24	54	54	53	54	53									0						
2	FY 08	A	311	0	311									A												53	53	53	53	53	46	0		
2	FY 09	A	107	0	107																					A				25	82			
1	FY 07 &P	MC	190	0	190			27	27	27	27	27	27	28																0				
2	FY 09	MC	325	0	325																								25	300				
Total						1464		1464	55	28	53	53	53	53	53	52	54	54	53	54	53					53	53	53	53	53	46	50	382	
						O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P					

MFR	Name - Location	PRODUCTION RATES			Reached D+	MFR	ADMIN LEAD TIME		MFR After 1 Oct	TOTAL After 1 Oct	REMARKS FY 07 & P = FY 07 & prior deliveries	
		MIN	1-8-5	MAX			Prior 1 Oct	After 1 Oct				
1	American Ordnance, Middletown, IA	22	85	125		1	Initial	3	12	5	17	
							Reorder	3	4	11	15	
2	To Be Selected	22	85	125		2	Initial	3	8	10	18	
							Reorder	3	6	6	12	
							Initial					
							Reorder					
							Initial					
							Reorder					

<b>FY 10 / 11 BUDGET PRODUCTION SCHEDULE</b>	P-1 ITEM NOMENCLATURE MODULAR ARTILLERY CHARGE SYSTEM (MACS), M231 (E27502)	Date: February 2008
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COST ELEMENTS					Fiscal Year 10													Fiscal Year 11													Later				
M F R	FY	S E R V	PROC QTY x1000	ACCEP PRIOR TO 1 OCT	BAL DUE AS OF 1 OCT	Calendar Year 10													Calendar Year 11																
						O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P						
Load, Assemble, and Pack																																			
1	FY 07 &P	A	531	531																														0	
2	FY 08	A	311	311																														0	
2	FY 09	A	107	25	82	25	25	25	25	7																								0	
1	FY 07 &P	MC	190	190																														0	
2	FY 09	MC	325	25	300	25	25	25	25	25	25	25	25	25	25	50																			0
Total																																			
						50	50	50	32	25	25	25	25	25	25	50																			
						O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P						

M F R	Name - Location	PRODUCTION RATES			Reached D+	MFR	ADMIN LEAD TIME		MFR After 1 Oct	TOTAL After 1 Oct	REMARKS	
		MIN	1-8-5	MAX			Prior 1 Oct	After 1 Oct				
1	American Ordnance, Middletown, IA	22	85	125		1	Initial	3	12	5	17	
							Reorder	3	4	11	15	
2	To Be Selected	22	85	125		2	Initial	3	8	10	18	
							Reorder	3	6	6	12	
							Initial					
							Reorder					
							Initial					
							Reorder					
							Initial					
							Reorder					

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

Date: February 2008

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

P-1 Item Nomenclature  
MODULAR ARTILLERY CHARGE SYSTEM (MACS), M232 (ER8021)

Program Elements for Code B Items:

Code:  
A

Other Related Program Elements:

	Prior Years	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013	To Complete	Total Prog
Proc Qty	2831	486	402	246	244	228	223	218		4878
Gross Cost	315.7	55.2	49.5	33.2	34.3	33.3	33.9	34.5		589.7
Less PY Adv Proc										
Plus CY Adv Proc										
Net Proc P1	315.7	55.2	49.5	33.2	34.3	33.3	33.9	34.5		589.7
Initial Spares										
Total Proc Cost	315.7	55.2	49.5	33.2	34.3	33.3	33.9	34.5		589.7
Flyaway U/C										
Weapon System Proc U/C										

**Description:**

The Modular Artillery Charge System (MACS), M232 "High Zone" is intended for use with all US 155mm cannon field artillery systems. The M232 "high zone" increment is designed to achieve ranges from 10-40+ kilometers. Each MACS increment includes propellant, an ignition system, and a combustible case. Performance enhancing additives are included in the M232 "high zone" increment. Packaging permits long-term storage and helps protect the items from unplanned stimuli. This item is Code A, approved for service use.

**Justification:**

This is a training standard item used for both training and war reserve for 155mm howitzers. The FY 2009 procurement supports annual training and builds a war reserve inventory in accordance with the Army's procurement goals.

TYPE CLASSIFICATION DATE: August 2001

<b>AMMO Cost Elements</b>		ID	<b>FY 07</b>			<b>FY 08</b>			<b>FY 09</b>		
		CD	Total Cost	Qty	Unit Cost	Total Cost	Qty	Unit Cost	Total Cost	Qty	Unit Cost
			\$000	x1000	\$	\$000	x1000	\$	\$000	x1000	\$
<b>Ammunition Hardware</b>											
Load, Assemble and Pack			9715	486	20	8723	402	22	5412	246	22
Combustible Case Sets			11833	501	24	12834	414	31	7843	253	31
Propellant (M232 Triple Base)			24300	2430	10	22110	2010	11	13530	1230	11
Ignition System/Spheriodal Propellant			212	31	7	226	26	9	139	16	9
LAP Containers			4069	100	41	4150	83	50	2550	51	50
Black Powder			405	30	14	356	25	14	210	15	14
<b>Sub Total Ammo Hardware</b>			<b>50534</b>			<b>48399</b>			<b>29684</b>		
<b>Production Support Costs</b>											
Production Engineering			2309			350			2598		
Quality Assurance			100			100			90		
Testing			900			500			725		
Value Engineering			30			30			30		
Fielding			110			110			110		
<b>Sub Total Production Support Costs</b>			<b>3449</b>			<b>1090</b>			<b>3553</b>		
<b>Costs- Non Recurring</b>											
Alternate Propellant Qualification			1250								
<b>Sub Total Costs Non Recurring</b>			<b>1250</b>								
<b>Total:</b>			<b>55233</b>		<b>114</b>	<b>49489</b>		<b>123</b>	<b>33237</b>		<b>135</b>



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

Date:  
February 2008

Appropriation/Budget Activity/Serial No: Procurement of Ammunition, Army/ 1/ Ammunition	Weapon System Type:	P-1 Line Item Nomenclature: MODULAR ARTILLERY CHARGE SYSTEM (MACS), M232 (ER8021)								
WBS Cost Elements:	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY x1000	Unit Cost \$000	Specs Avail Now?	Date Revsn Avail	RFP Issue Date
<b>Load, Assemble and Pack</b>										
FY 2007	American Ordnance Middletown, IA	SS/Opt	Picatinny, NJ	Feb 07	Jan 09	486	20	Y		
FY 2008	To Be Selected	C/FP	Picatinny, NJ	May 08	Jan 10	402	22	Y		
FY 2009	To Be Selected	Option	Picatinny, NJ	Mar 09	Oct 10	246	22	Y		
<b>Combustible Case Sets</b>										
FY 2007	Armtec Coachella, CA	CM-5/FP	Picatinny, NJ	Feb 07	Oct 07	501	24	Y		
FY 2008	Armtec Coachella, CA	SS/MY-1	Picatinny, NJ	Apr 08	Nov 08	414	31	Y		
FY 2009	Armtec Coachella, CA	SS/MY-2	Picatinny, NJ	Mar 09	Nov 09	253	31	Y		
<b>Propellant (M232 Triple Base)</b>										
FY 2007	Alliant Techsystems Radford, VA	SS/FP	Picatinny, NJ	Feb 07	Mar 08	2430	10	Y		
FY 2008	Alliant Techsystems Radford, VA	SS/FP	Picatinny, NJ	Apr 08	Mar 09	2010	11	Y		
FY 2009	Alliant Techsystems Radford, VA	SS/FP	Picatinny, NJ	Mar 09	Mar 10	1230	11	Y		
<b>Ignition System/Spheriodal Propellant</b>										
FY 2007	GOEX Doyline, LA	SS/Opt	Picatinny, NJ	Mar 07	Mar 08	31	7	Y		
FY 2008	GOEX Doyline, LA	SS/Opt	Picatinny, NJ	Mar 08	Mar 09	26	9	Y		
FY 2009	To Be Selected	SS/Opt	Picatinny, NJ	Mar 09	Mar 10	16	9	Y		
<b>LAP Containers</b>										
FY 2007	Conco Louisville, KY	C/Opt	Picatinny, NJ	Jun 07	Mar 08	100	41	Y		
FY 2008	Conco Louisville, KY	C/Opt	Picatinny, NJ	Apr 08	Feb 09	83	50	Y		
FY 2009	To Be Selected	C/FP	Picatinny, NJ	Mar 09	Mar 10	51	50	Y		

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

Date:  
February 2008

Appropriation/Budget Activity/Serial No: Procurement of Ammunition, Army/ 1/ Ammunition	Weapon System Type:	P-1 Line Item Nomenclature: MODULAR ARTILLERY CHARGE SYSTEM (MACS), M232 (ER8021)
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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
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REMARKS:

<b>FY 08 / 09 BUDGET PRODUCTION SCHEDULE</b>	P-1 ITEM NOMENCLATURE MODULAR ARTILLERY CHARGE SYSTEM (MACS), M232 (ER8021)	Date: February 2008
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COST ELEMENTS						Fiscal Year 08													Fiscal Year 09													Later																																																																																																								
M F R	FY	S E R V	PROC QTY x1000	ACCEP PRIOR TO 1 OCT	BAL DUE AS OF 1 OCT	Calendar Year 08													Calendar Year 09																																																																																																																					
						O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P																																																																																																											
Load, Assemble and Pack																																																																																																																																								
1	FY 07 &P	A	1570	592	978	22	22	22	22	22	22	23	33	33	48	48	48	48	48	31	54	54	54	54	54	54	54	54	0																																																																																																											
2	FY 08	A	402	0	402								A															402																																																																																																												
2	FY 09	A	246	0	246																	A						246																																																																																																												
1	FY 07 &P	MC	269	66	203	22	22	22	22	22	22	22	22	20	7													0																																																																																																												
2	FY 08	MC	205	0	205								A															205																																																																																																												
2	FY 09	MC	306	0	306																	A						306																																																																																																												
Total						2998	658	2340	44	44	44	44	44	44	45	55	53	55	48	48	48	48	31	54	54	54	54	54	54	54	54	54	1159																																																																																																							
<table style="width:100%; border-collapse: collapse; text-align: center;"> <tr> <td>O</td><td>N</td><td>D</td><td>J</td><td>F</td><td>M</td><td>A</td><td>M</td><td>J</td><td>J</td><td>A</td><td>S</td><td>O</td><td>N</td><td>D</td><td>J</td><td>F</td><td>M</td><td>A</td><td>M</td><td>J</td><td>J</td><td>A</td><td>S</td><td>O</td><td>N</td><td>D</td><td>J</td><td>F</td><td>M</td><td>A</td><td>M</td><td>J</td><td>J</td><td>A</td><td>S</td> </tr> <tr> <td>C</td><td>O</td><td>E</td><td>A</td><td>E</td><td>A</td><td>P</td><td>A</td><td>U</td><td>U</td><td>U</td><td>E</td><td>C</td><td>O</td><td>E</td><td>A</td><td>E</td><td>A</td><td>P</td><td>A</td><td>U</td><td>U</td><td>U</td><td>P</td><td>C</td><td>V</td><td>E</td><td>A</td><td>E</td><td>A</td><td>P</td><td>A</td><td>U</td><td>U</td><td>U</td><td>E</td> </tr> <tr> <td>T</td><td>V</td><td>C</td><td>N</td><td>B</td><td>R</td><td>R</td><td>Y</td><td>N</td><td>L</td><td>G</td><td>P</td><td>T</td><td>V</td><td>C</td><td>N</td><td>B</td><td>R</td><td>R</td><td>Y</td><td>N</td><td>L</td><td>G</td><td>P</td><td>T</td><td>V</td><td>C</td><td>N</td><td>B</td><td>R</td><td>R</td><td>Y</td><td>N</td><td>L</td><td>G</td><td>P</td> </tr> </table>																													O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	C	O	E	A	E	A	P	A	U	U	U	E	C	O	E	A	E	A	P	A	U	U	U	P	C	V	E	A	E	A	P	A	U	U	U	E	T	V	C	N	B	R	R	Y	N	L	G	P	T	V	C	N	B	R	R	Y	N	L	G	P	T	V	C	N	B	R	R	Y	N	L	G	P
O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S																																																																																																					
C	O	E	A	E	A	P	A	U	U	U	E	C	O	E	A	E	A	P	A	U	U	U	P	C	V	E	A	E	A	P	A	U	U	U	E																																																																																																					
T	V	C	N	B	R	R	Y	N	L	G	P	T	V	C	N	B	R	R	Y	N	L	G	P	T	V	C	N	B	R	R	Y	N	L	G	P																																																																																																					

M F R	Name - Location	PRODUCTION RATES			Reached D+	MFR	ADMIN LEAD TIME		MFR After 1 Oct	TOTAL After 1 Oct	REMARKS FY 07 & P = FY07 & prior deliveries.
		MIN	1-8-5	MAX			Prior 1 Oct	After 1 Oct			
		1	American Ordnance, Middletown, IA	30			60	125	1	Initial	
						Reorder	3	5	22	27	
2	To Be Selected	30	60	125	2	Initial	3	8	20	28	
						Reorder	3	6	21	27	
						Initial					
						Reorder					
						Initial					
						Reorder					
						Initial					
						Reorder					

<b>FY 10 / 11 BUDGET PRODUCTION SCHEDULE</b>	P-1 ITEM NOMENCLATURE MODULAR ARTILLERY CHARGE SYSTEM (MACS), M232 (ER8021)	Date: February 2008
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COST ELEMENTS						Fiscal Year 10														Fiscal Year 11														Later
M F R	FY	S E R V	PROC QTY x1000	ACCEP PRIOR TO 1 OCT	BAL DUE AS OF 1 OCT	Calendar Year 10														Calendar Year 11														
						O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P					

Load, Assemble and Pack																															
1	FY 07 &P	A	1570	1570																										0	
2	FY 08	A	402	0	402				38	38	38	38	38	38	38	38	38	53	7											0	
2	FY 09	A	246	0	246																25	25	25	25	25	25	25	25	25	21	0
1	FY 07 &P	MC	269	269																										0	
2	FY 08	MC	205	0	205				22	22	22	22	22	22	22	7														0	
2	FY 09	MC	306	0	306																22	22	22	22	22	22	22	22	22	108	
Total			2998	1839	1159				60	60	60	60	60	60	60	7	25	47	47	47	47	47	47	47	47	47	47	43	108		
						O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P		

M F R	Name - Location	PRODUCTION RATES			Reached D+	MFR	ADMIN LEAD TIME		MFR After 1 Oct	TOTAL After 1 Oct	REMARKS	
		MIN	1-8-5	MAX			1	Initial				After 1 Oct
1	American Ordnance, Middletown, IA	30	60	125		1	3	5	22	27		
2	To Be Selected	30	60	125		2	3	8	20	28		
							3	6	21	27		

<b>FY 12 / 13 BUDGET PRODUCTION SCHEDULE</b>	P-1 ITEM NOMENCLATURE MODULAR ARTILLERY CHARGE SYSTEM (MACS), M232 (ER8021)	Date: February 2008
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COST ELEMENTS						Fiscal Year 12														Fiscal Year 13														Later
M F R	FY	S E R V	PROC QTY x1000	ACCEP PRIOR TO 1 OCT	BAL DUE AS OF 1 OCT	Calendar Year 12														Calendar Year 13														
						O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P					

Load, Assemble and Pack																																																											
1	FY 07 &P	A	1570	1570																										0																													
2	FY 08	A	402	402																										0																													
2	FY 09	A	246	246																										0																													
1	FY 07 &P	MC	269	269																										0																													
2	FY 08	MC	205	205																										0																													
2	FY 09	MC	306	198	108	36	36	36																						0																													
Total																																																											
<table border="0" style="width:100%;"> <tr> <td style="text-align: center;">O C T</td> <td style="text-align: center;">N O V</td> <td style="text-align: center;">D E C</td> <td style="text-align: center;">J A N</td> <td style="text-align: center;">F E B</td> <td style="text-align: center;">M A R</td> <td style="text-align: center;">A P R</td> <td style="text-align: center;">M A Y</td> <td style="text-align: center;">J U N</td> <td style="text-align: center;">J U L</td> <td style="text-align: center;">A U G</td> <td style="text-align: center;">S E P</td> <td style="text-align: center;">O C T</td> <td style="text-align: center;">N O V</td> <td style="text-align: center;">D E C</td> <td style="text-align: center;">J A N</td> <td style="text-align: center;">F E B</td> <td style="text-align: center;">M A R</td> <td style="text-align: center;">A P R</td> <td style="text-align: center;">M A Y</td> <td style="text-align: center;">J U N</td> <td style="text-align: center;">J U L</td> <td style="text-align: center;">A U G</td> <td style="text-align: center;">S E P</td> <td colspan="6"></td> </tr> </table>																														O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P						
O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P																																				

M F R	Name - Location	PRODUCTION RATES			Reached D+	MFR	ADMIN LEAD TIME		MFR After 1 Oct	TOTAL After 1 Oct	REMARKS		
		MIN	1-8-5	MAX			1	Initial				3	5
1	American Ordnance, Middletown, IA	30	60	125		1	Initial	3	5	22	27		
							Reorder	3	5	22	27		
2	To Be Selected	30	60	125		2	Initial	3	8	20	28		
							Reorder	3	6	21	27		
							Initial						
							Reorder						
							Initial						
							Reorder						
							Initial						
							Reorder						

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

Date: February 2008

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 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013	To Complete	Total Prog
Proc Qty										
Gross Cost	1038.1	4.1	4.2	20.0	35.6	47.1	53.2	53.6		1255.9
Less PY Adv Proc										
Plus CY Adv Proc										
Net Proc P1	1038.1	4.1	4.2	20.0	35.6	47.1	53.2	53.6		1255.9
Initial Spares										
Total Proc Cost	1038.1	4.1	4.2	20.0	35.6	47.1	53.2	53.6		1255.9
Flyaway U/C										
Weapon System Proc U/C										

**Description:**

This budget line includes Artillery Fuzes, All Types.

FY 2007 funding total includes \$0 received in GWOT supplemental.

FY 2008 funding total includes \$0 received in The Consolidated Appropriations Act, 2008 (P.L. 110-161).

FY 2008 funding totals do not include \$0 previously requested for current FY2008 GWOT 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: ARTILLERY FUZES, ALL TYPES (ER8000)			Weapon System Type:		Date: February 2008	
<b>AMMO Cost Elements</b>		ID CD	<b>FY 07</b>			<b>FY 08</b>			<b>FY 09</b>		
			Total Cost	Qty	Unit Cost	Total Cost	Qty	Unit Cost	Total Cost	Qty	Unit Cost
			\$000	x1000	\$	\$000	x1000	\$	\$000	x1000	\$
E99250 Precision Guidance Kit (PGK)									15633	3	5919
E99200 Fuze Electric Time M762A1			4067	31	131	4222	17	248	4336	18	241
<b>Total:</b>			<b>4067</b>		<b>131</b>	<b>4222</b>		<b>248</b>	<b>19969</b>		<b>951</b>

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

Date: February 2008

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

P-1 Item Nomenclature  
PRECISION GUIDANCE KIT (PGK) (E99250)

Program Elements for Code B Items:

Code:

Other Related Program Elements:

	Prior Years	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013	To Complete	Total Prog
Proc Qty				3	4	6	9	9		31
Gross Cost				15.6	20.1	29.6	35.6	35.9		136.9
Less PY Adv Proc										
Plus CY Adv Proc										
Net Proc P1				15.6	20.1	29.6	35.6	35.9		136.9
Initial Spares										
Total Proc Cost				15.6	20.1	29.6	35.6	35.9		136.9
Flyaway U/C										
Weapon System Proc U/C										

**Description:**

The Precision Guidance Kit (PGK) is a smart fuze for conventional artillery projectiles. It substantially improves the accuracy and effectiveness of cannon artillery fire and provides capabilities currently not provided in the force. The PGK is used with existing stockpile and future conventional cannon artillery projectiles. Using an integrated Global Positioning System receiver, the PGK corrects the inherent errors associated with ballistic firing solutions and will reduce the number of artillery projectiles required to execute the mission. The increase in effectiveness offered by the PGK gives commanders the operational capability to defeat more targets with the same basic load, while reducing the logistical burden associated with the current mission requirement.

**Justification:**

This is a war reserve item used in combat. The FY 2009 procurement builds a war reserve inventory of Increment 1 Precision Guidance Kits. Increment 1 PGKs will be compatible with the M107, M549/A1, and M795 155mm High Explosive (HE) projectiles, in accordance with the Army's procurement goals.



<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: PRECISION GUIDANCE KIT (PGK) (E99250)			Weapon System Type:		Date: February 2008	
<b>AMMO Cost Elements</b>		ID CD	<b>FY 07</b>			<b>FY 08</b>			<b>FY 09</b>		
			Total Cost	Qty	Unit Cost	Total Cost	Qty	Unit Cost	Total Cost	Qty	Unit Cost
			\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000
<b>AMMUNITION HARDWARE</b>											
Complete Fuze									13571	2641	5
<b>SubTotal AMMO Hardware</b>									<b>13571</b>		
<b>Production Support Costs</b>											
Production Engineering									1008		
Quality Assurance									105		
Acceptance Testing									590		
<b>SubTotal Prod. Support</b>									<b>1703</b>		
<b>COST - Nonrecurring</b>											
First Article Testing									359		
<b>SubTotal COST - Nonrecurring</b>									<b>359</b>		
<b>Total:</b>									<b>15633</b>		<b>5919</b>

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

Date:  
February 2008

Appropriation/Budget Activity/Serial No: Procurement of Ammunition, Army/ 1/ Ammunition		Weapon System Type:	P-1 Line Item Nomenclature: PRECISION GUIDANCE KIT (PGK) (E99250)							
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 Fuze</b> FY 2009	Alliant TechSystems Plymouth, MN	C/Option	Picatunny, NJ	Dec 08	Jul 09	2641	5	N	JUL 08	

REMARKS:



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

Date: February 2008

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

P-1 Item Nomenclature  
MINES, ALL TYPES (EA0800)

Program Elements for Code B Items:

Code:

Other Related Program Elements:

	Prior Years	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013	To Complete	Total Prog
Proc Qty										
Gross Cost	187.7	4.6	4.8	4.8	4.9	5.5	5.8	6.0		224.1
Less PY Adv Proc										
Plus CY Adv Proc										
Net Proc P1	187.7	4.6	4.8	4.8	4.9	5.5	5.8	6.0		224.1
Initial Spares										
Total Proc Cost	187.7	4.6	4.8	4.8	4.9	5.5	5.8	6.0		224.1
Flyaway U/C										
Weapon System Proc U/C										

**Description:**

This budget line buys Mines, All Types. This includes the M18A1 Claymore and the M68 trainer for the Claymore Munition.

FY 2007 funding total includes \$0 received in GWOT supplemental.

FY 2008 funding total includes \$0 received in The Consolidated Appropriations Act, 2008 (P.L. 110-161).

FY 2008 funding totals do not include \$0 previously requested for current FY2008 GWOT

<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: MINES, ALL TYPES (EA0800)			Weapon System Type:		Date: February 2008	
<b>AMMO Cost Elements</b>		ID CD	<b>FY 07</b>			<b>FY 08</b>			<b>FY 09</b>		
			Total Cost	Qty	Unit Cost	Total Cost	Qty	Unit Cost	Total Cost	Qty	Unit Cost
			\$000	x1000	\$	\$000	x1000	\$	\$000	x1000	\$
E39300 M18A1 Claymore Anti-Pers Munition			4204	15	273	3959	17	229	4026	15	275
E43700 M68 Trainer for Claymore			394	1	492	800	1	680	820	1	601
<b>Total:</b>			<b>4598</b>			<b>4759</b>			<b>4846</b>		

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

Date: February 2008

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

P-1 Item Nomenclature  
MINE, CLEARING CHARGE, ALL TYPES (E75100)

Program Elements for Code B Items:

Code:

Other Related Program Elements:

	Prior Years	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013	To Complete	Total Prog
Proc Qty										
Gross Cost	251.0	9.9	2.5	2.6	2.8	2.9	3.0	3.1		277.7
Less PY Adv Proc										
Plus CY Adv Proc										
Net Proc P1	251.0	9.9	2.5	2.6	2.8	2.9	3.0	3.1		277.7
Initial Spares										
Total Proc Cost	251.0	9.9	2.5	2.6	2.8	2.9	3.0	3.1		277.7
Flyaway U/C										
Weapon System Proc U/C										

**Description:**

This budget includes Mine Clearing Charges, All Types.  
 FY 2007 funding total includes \$6 Million received in GWOT supplemental.  
 FY 2008 funding total includes \$0 received in The Consolidated Appropriations Act, 2008 (P.L. 110-161).  
 FY 2008 funding totals do not include \$0 previously requested for current FY 2008 GWOT 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: MINE, CLEARING CHARGE, ALL TYPES (E75100)			Weapon System Type:		Date: February 2008	
<b>AMMO Cost Elements</b>		ID	<b>FY 07</b>			<b>FY 08</b>			<b>FY 09</b>		
		CD	Total Cost	Qty	Unit Cost	Total Cost	Qty	Unit Cost	Total Cost	Qty	Unit Cost
			\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000
E72800 Anti-Pers Obs Breach Sys APOBS			6000	516	12						
E75102 Line Charge Inert M68A2 F/MICLIC			3902	150	26	2505	92	27	2606	95	27
<b>Total:</b>			<b>9902</b>			<b>2505</b>			<b>2606</b>		

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

Date: February 2008

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

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

Program Elements for Code B Items:

Code: A

Other Related Program Elements:

	Prior Years	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013	To Complete	Total Prog
Proc Qty	4712	516								5228
Gross Cost	41.4	6.0								47.4
Less PY Adv Proc										
Plus CY Adv Proc										
Net Proc P1	41.4	6.0								47.4
Initial Spares										
Total Proc Cost	41.4	6.0								47.4
Flyaway U/C										
Weapon System Proc U/C										

**Description:**

The Anti-Personnel Obstacle Breaching System (APOBS) is used by dismounted troops in combat operations to clear a lane through wire obstacles and anti-personnel mines. This item is a lightweight, self-contained, 1-shot expendable system that is transported and deployed by a 2-man team. It consists of a line charge/fuze assembly and a rocket motor assembly. APOBS uses the EX126 Mod 0 rocket motor to propel a line charge over the obstacle. The line is explodes, clearing a lane. This item is Code A, approved for service use.

**Justification:**

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

TYPE CLASSIFICATION: July 2001 - Standard



<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: February 2008		
<b>AMMO Cost Elements</b>		ID CD	<b>FY 07</b>			<b>FY 08</b>			<b>FY 09</b>		
			Total Cost	Qty	Unit Cost	Total Cost	Qty	Unit Cost	Total Cost	Qty	Unit Cost
			\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000
<b>HARDWARE</b>											
APOBS Tactical System			5400	516	10						
<b>SubTotal Hardware</b>			<b>5400</b>								
<b>PRODUCTION SUPPORT COSTS</b>											
Production Engineering			600								
<b>Subtotal Procurement Support</b>			<b>600</b>								
<b>Total:</b>			<b>6000</b>		<b>12</b>						

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

Date:  
February 2008

Appropriation/Budget Activity/Serial No: Procurement of Ammunition, Army/ 1/ Ammunition		Weapon System Type:	P-1 Line Item Nomenclature: ANTI-PERS OBSTACLE BREACHING SYSTEM (E72800)							
WBS Cost Elements:	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY Each	Unit Cost \$000	Specs Avail Now?	Date Revsn Avail	RFP Issue Date
<b>APOBS Tactical System</b> FY 2007	Ensign Bickford Simsbury CT	C/OPT	USMC, Quantico, VA	Jul 07	Jul 08	516	10	Y		

REMARKS: This item is USMC managed for configuration and acquisition.

<b>FY 08 / 09 BUDGET PRODUCTION SCHEDULE</b>	P-1 ITEM NOMENCLATURE ANTI-PERS OBSTACLE BREACHING SYSTEM (E72800)	Date: February 2008
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COST ELEMENTS						Fiscal Year 08														Fiscal Year 09														Later
MFR	FY	SERV	PROC QTY Units	ACCEP PRIOR TO 1 OCT	BAL DUE AS OF 1 OCT	Calendar Year 08														Calendar Year 09														
						OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP					
APOBS Tactical System																																		
1	FY 07 P	A	969	0	969				35	35	50	50	65	65	65	65	23				6	90	90	85	85	85	75			0				
1	FY 07 P	MC	1281	0	1281				35	35	50	50	65	65	65	65	107	130	130	130	124	35	35	40	40	40	40			0				
Total									70	70	100	100	130	130	130	130	130	130	130	130	130	125	125	125	125	125	115							
						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	ADMIN LEAD TIME		MFR After 1 Oct	TOTAL After 1 Oct	REMARKS	
		MIN	1-8-5	MAX			Prior 1 Oct	After 1 Oct				
1	Ensign Bickford, Simsbury CT	75	130	300		1	Initial	6	8	15	23	
							Reorder	6	6	12	18	
							Initial					
							Reorder					
							Initial					
							Reorder					
							Initial					
							Reorder					
							Initial					
							Reorder					

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

Date: February 2008

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

P-1 Item Nomenclature  
ANTIPERSONNEL LANDMINE ALTERNATIVES (E95900)

Program Elements for Code B Items:

Code:

Other Related Program Elements:

	Prior Years	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013	To Complete	Total Prog
Proc Qty										
Gross Cost	35.1	68.6	51.5	52.0	39.3	24.4	21.1	34.8		326.8
Less PY Adv Proc										
Plus CY Adv Proc										
Net Proc P1	35.1	68.6	51.5	52.0	39.3	24.4	21.1	34.8		326.8
Initial Spares										
Total Proc Cost	35.1	68.6	51.5	52.0	39.3	24.4	21.1	34.8		326.8
Flyaway U/C										
Weapon System Proc U/C										

**Description:**

This budget line includes Anti Personnel Landmine Alternatives (APLA), All Types.

FY 2007 funding total includes \$0 Million received in GWOT supplemental.

FY 2008 funding total includes \$0 received in The Consolidated Appropriations Act, 2008 (P.L. 110-161).

FY 2008 funding totals do not include \$0 Million previously requested for current FY2008 GWOT 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: ANTIPERSONNEL LANDMINE ALTERNATIVES (E95900)			Weapon System Type:		Date: February 2008	
<b>AMMO Cost Elements</b>		ID	<b>FY 07</b>			<b>FY 08</b>			<b>FY 09</b>		
		CD	Total Cost	Qty	Unit Cost	Total Cost	Qty	Unit Cost	Total Cost	Qty	Unit Cost
			\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000
E91700 Spider Networked Munitions System			68602	175	392	51525			52000	125	416
<b>Total:</b>			<b>68602</b>			<b>51525</b>			<b>52000</b>		

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

Date: February 2008

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

P-1 Item Nomenclature  
SPIDER NETWORKED MUNITIONS SYSTEM (E91700)

Program Elements for Code B Items:  
654608 D434

Code:  
B

Other Related Program Elements:

	Prior Years	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013	To Complete	Total Prog
Proc Qty		175		125	87	40	35	70		532
Gross Cost	35.1	68.6	51.5	52.0	39.3	24.4	21.1	34.8		326.8
Less PY Adv Proc										
Plus CY Adv Proc										
Net Proc P1	35.1	68.6	51.5	52.0	39.3	24.4	21.1	34.8		326.8
Initial Spares										
Total Proc Cost	35.1	68.6	51.5	52.0	39.3	24.4	21.1	34.8		326.8
Flyaway U/C										
Weapon System Proc U/C										

**Description:**

The Spider is a hand emplaced, remotely controlled, anti-personnel munition system. Spider as a Man-in-the-Loop system offers numerous capabilities for asymmetric warfare focusing on the control of insurgents and small unit force protection. The system is made up of 4 subsystems: Man-in-the-Loop (the human operator), Remote Control Station (the system command and control station), Repeater (a communication link to the munitions that provides extended range), and Munition Control Units (delivers anti-personnel effects). The Spider is designed to mitigate the indiscriminate engagement of the lethal mechanism. A Soldier/Marine makes a conscious decision to engage a target with the lethal mechanism. Spider's sensor capabilities and controlled munitions provide needed force protection and battlefield shaping. Spider allows measured and graduated responses including sense only, non-lethal, and lethal modes. Spider also supports net-centric operations by feeding information (location and status) into the Command and Control system. The Spider system with its many desirable features makes it a versatile weapon system that has significant utility across the full spectrum of military operations and will support current and future operations.

This item is Code B, not approved for service use.

**Justification:**

This is a training standard item, used in both training and combat. FY2009 procures 125 Spider systems. Spider is a DOD special interest program requiring OSD to develop a munition system that addresses humanitarian concerns and contain self-destructing/self-deactivating features. FY2009 funding will be used to award a FFP modification to the current Low Rate Initial Production (LRIP) contract to support the completion of LRIP.

FY2008 Spider resources (\$51.5M) will be used to integrate system enhancements towards addressing committee language associated with the Spider program.

Type Classification LRIP - June 2006.

<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: SPIDER NETWORKED MUNITIONS SYSTEM (E91700)			Weapon System Type:		Date: February 2008	
<b>AMMO Cost Elements</b>		ID CD	<b>FY 07</b>			<b>FY 08</b>			<b>FY 09</b>		
			Total Cost \$000	Qty Each	Unit Cost \$000	Total Cost \$000	Qty Each	Unit Cost \$000	Total Cost \$000	Qty Each	Unit Cost \$000
<b>HARDWARE</b>											
Complete Spider Systems			54530	175	312				44128	125	353
Spider Reload Set						34083	263	130			
<b>Subtotal</b>			<b>54530</b>			<b>34083</b>			<b>44128</b>		
<b>PRODUCTION SUPPORT</b>											
Production Engineering			5584			6358			6372		
<b>Subtotal Production Support</b>			<b>5584</b>			<b>6358</b>			<b>6372</b>		
<b>NON RECURRING COSTS</b>											
Special Tooling			2750								
Producibility Engineering			866								
Text Fixtures			3000			1234					
System Update Integration						7850					
Production Verification Test			1500			2000					
Follow-on Test & Evaluation									1500		
First Article Test Low Rate Production			372								
<b>Subtotal Non-Recurring Costs</b>			<b>8488</b>			<b>11084</b>			<b>1500</b>		
<b>Total:</b>			<b>68602</b>		<b>392</b>	<b>51525</b>			<b>52000</b>		<b>416</b>

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

Date:  
February 2008

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
Appropriation/Budget Activity/Serial No: Procurement of Ammunition, Army/ 1/ Ammunition			Weapon System Type:			P-1 Line Item Nomenclature: SPIDER NETWORKED MUNITIONS SYSTEM (E91700)				
<b>Complete Spider Systems</b>										
FY 2007	Alliant Techsystems/Textron Plymouth MN, Wilmington MA	SS/Other	Picatinny, NJ	Mar 07	Sep 08	175	311600			
FY 2009	Alliant Techsystems/Textron Plymouth MN, Wilmington MA	SS/Other	Picatinny, NJ	Mar 09	Jun 10	125	353024			
<b>Spider Reload Set</b>										
FY 2008	Alliant Techsystems/Textron Plymouth MN, Wilmington MA	SS/Other	Picatinny, NJ	May 08	Aug 09	263	130000			

REMARKS: FY2007 (Low Rate Initial Production, LRIP) was a sole source modification to the cost plus incentive fee LRIP contract.  
FY2008 and FY2009 will be sole source fixed price contract modifications to the LRIP contract developer.



**FY 08 / 09 BUDGET PRODUCTION SCHEDULE**

P-1 ITEM NOMENCLATURE  
SPIDER NETWORKED MUNITIONS SYSTEM (E91700)

Date: February 2008

COST ELEMENTS						Fiscal Year 08														Fiscal Year 09														Later
MFR	FY	S E R V	PROC QTY Each	ACCEP PRIOR TO 1 OCT	BAL DUE AS OF 1 OCT	Calendar Year 08														Calendar Year 09														
						O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P					
Complete Spider Systems																																		
1	FY 07	A	175	0	175												6	8	9	12	15	15	18	18	18	18	19	19	0					
1	FY 09	A	125	0	125																		A						125					
Spider Reload Set																																		
2	FY 08	A	263	0	263								A														21	22	220					
Total																																		
563 563 6 8 9 12 15 15 18 18 18 18 19 40 22 345																																		

MFR	Name - Location	PRODUCTION RATES			Reached D+	MFR	ADMIN LEAD TIME		MFR After 1 Oct	TOTAL After 1 Oct	REMARKS	
		MIN	1-8-5	MAX			Prior 1 Oct	After 1 Oct				
1	Alliant Techsystems/Textron, Plymouth MN, Wilmington MA	1	30	115	120	1	Initial	6	8	18	26	FY2009 will be a fixed price modification to the LRIP contract and will be awarded and manufactured using the reorder admin lead times.
						Reorder	6	6	15	21		
2	Alliant Techsystems/Textron, Plymouth MN, Wilmington MA	5	25	75		2	Initial	6	8	18	26	
						Reorder	6	6	15	21		
							Initial					
							Reorder					
							Initial					
							Reorder					
							Initial					
							Reorder					

<b>FY 10 / 11 BUDGET PRODUCTION SCHEDULE</b>	P-1 ITEM NOMENCLATURE SPIDER NETWORKED MUNITIONS SYSTEM (E91700)	Date: February 2008
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COST ELEMENTS						Fiscal Year 10														Fiscal Year 11												Later
M F R	FY	S E R V	PROC QTY Each	ACCEP PRIOR TO 1 OCT	BAL DUE AS OF 1 OCT	Calendar Year 10														Calendar Year 11												
						O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S			
						C	O	E	A	E	A	P	A	U	U	U	E	C	O	V	E	A	E	A	P	A	U	U	U	E		

Complete Spider Systems																																						
1	FY 07	A		175	175																																	0
1	FY 09	A		125	0	125								10	10	10	10	10	10	10	10	10	11	11	11	11	11									0		

Spider Reload Set																																					
2	FY 08	A		263	43	220	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	0
Total																																					
						O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S								
						C	O	E	A	E	A	P	A	U	U	U	E	C	O	E	A	E	A	P	A	U	U	U	E								
						T	V	C	N	B	R	R	Y	N	L	G	P	T	V	C	N	B	R	R	Y	N	L	G	P								

M F R	Name - Location	PRODUCTION RATES				Reached D+	MFR	ADMIN LEAD TIME		MFR After 1 Oct	TOTAL After 1 Oct	REMARKS
		MIN	1-8-5	MAX	Prior 1 Oct			After 1 Oct				
1	Alliant Techsystems/Textron, Plymouth MN, Wilmington MA	1	30	115	120	1	Initial	6	8	18	26	FY2009 will be a fixed price modification to the LRIP contract and will be awarded and manufactured using the reorder admin lead times.
						2	Reorder	6	6	15	21	
2	Alliant Techsystems/Textron, Plymouth MN, Wilmington MA	5	25	75		1	Initial	6	8	18	26	
						2	Reorder	6	6	15	21	
							Initial					
							Reorder					
							Initial					
							Reorder					

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

Date: February 2008

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

P-1 Item Nomenclature  
SHOULDER LAUNCHED MUNITIONS, ALL TYPES (EA4000)

Program Elements for Code B Items:

Code:

Other Related Program Elements:

	Prior Years	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013	To Complete	Total Prog
Proc Qty										
Gross Cost	960.3	40.9	30.1	28.0	47.4	29.6	30.1	30.6		1196.9
Less PY Adv Proc										
Plus CY Adv Proc										
Net Proc P1	960.3	40.9	30.1	28.0	47.4	29.6	30.1	30.6		1196.9
Initial Spares										
Total Proc Cost	960.3	40.9	30.1	28.0	47.4	29.6	30.1	30.6		1196.9
Flyaway U/C										
Weapon System Proc U/C										

**Description:**

This budget line includes Shoulder Launched Munitions, All Types.

FY 2007 funding total includes \$30.0 Million received in GWOT supplemental.

FY 2008 funding total includes \$0 received in The Consolidated Appropriations Act, 2008 (P.L. 110-161).

FY 2008 funding totals do not include \$20.0 Million previously requested for current FY2008 GWOT requirements.

Actual amount for FY07 reflect changes since the publication of the P-1.

<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: SHOULDER LAUNCHED MUNITIONS, ALL TYPES (EA4000)	Weapon System Type:	Date: February 2008
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AMMO Cost Elements	ID	FY 07			FY 08			FY 09		
	CD	Total Cost	Qty	Unit Cost	Total Cost	Qty	Unit Cost	Total Cost	Qty	Unit Cost
		\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000
E36101 AT-4 CONFINED SPACE		18542	4271	4	21262	4400	5	21545	4390	5
E88401 BUNKER DEFEAT MUNITION		22328	1750	13	8802	688	13	6475	443	15
<b>Total:</b>		<b>40870</b>			<b>30064</b>			<b>28020</b>		

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

Date: February 2008

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

P-1 Item Nomenclature  
AT4 - Confined Space (E36101)

Program Elements for Code B Items:

Code:  
B

Other Related Program Elements:

	Prior Years	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013	To Complete	Total Prog
Proc Qty	4069	4271	4400	4390	5144	4515	4525	4669		35983
Gross Cost	18.0	18.5	21.3	21.5	25.3	23.1	23.6	24.0		175.4
Less PY Adv Proc										
Plus CY Adv Proc										
Net Proc P1	18.0	18.5	21.3	21.5	25.3	23.1	23.6	24.0		175.4
Initial Spares										
Total Proc Cost	18.0	18.5	21.3	21.5	25.3	23.1	23.6	24.0		175.4
Flyaway U/C										
Weapon System Proc U/C										

**Description:**

The AT4 is the Army's primary shoulder launched, lightweight, anti-tank weapon. This procurement is for the AT4-Confined Space (CS) weapon, a safety enhanced version of the M136 AT4 Multipurpose Weapon. The AT4-CS is a self-contained weapon consisting of a free-flight, fin-stabilized, rocket packed in an expendable, 1-piece launch tube. The recoilless design permits accurate delivery of the 84mm High Explosive Anti-Armor warhead out to 250 meters.

The AT4-CS incorporates a safety modification to the propulsion system that significantly reduces the weapon's backblast and launch signature. This will allow the user to safely fire the weapon from a protected area or enclosed space during close combat operations. This item is Code B, authorized for use by contingency forces.

**Justification:**

This is a training standard item used in both training and combat. FY 2009 procurement supports annual training and builds a war reserve inventory in accordance with the Army's procurement goals.

<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: AT4 - Confined Space (E36101)			Weapon System Type:		Date: February 2008	
<b>AMMO Cost Elements</b>		ID CD	<b>FY 07</b>			<b>FY 08</b>			<b>FY 09</b>		
			Total Cost \$000	Qty Each	Unit Cost \$000	Total Cost \$000	Qty Each	Unit Cost \$000	Total Cost \$000	Qty Each	Unit Cost \$000
<b>AMMUNITION HARDWARE</b>											
Complete Round			15345	4271	4	18445	4400	4	18640	4390	4
<b>SubTotal AMMO Hardware</b>			<b>15345</b>			<b>18445</b>			<b>18640</b>		
<b>PRODUCTION SUPPORT COSTS</b>											
Production Engineering			1660			2404			2464		
Acceptance Testing			200			233			257		
<b>Sub Total Production Support</b>			<b>1860</b>			<b>2637</b>			<b>2721</b>		
Baseline IM Testing			410								
Residual TC Action; testing			330								
IM Improvements			437								
Currency Fluctuation			160			180			184		
<b>Sub Total Nonrecurring Costs</b>			<b>1337</b>			<b>180</b>			<b>184</b>		
<b>Total:</b>			<b>18542</b>		<b>4</b>	<b>21262</b>		<b>5</b>	<b>21545</b>		<b>5</b>

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

Date:  
February 2008

Appropriation/Budget Activity/Serial No: Procurement of Ammunition, Army/ 1/ Ammunition		Weapon System Type:	P-1 Line Item Nomenclature: AT4 - Confined Space (E36101)							
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 2007	SAAB Bofors Dynamics AB Karlskoga, Sweden	SS/FP	Picatinny, NJ	Mar 08	Mar 10	4271	3593			
FY 2008	SAAB Bofors Dynamics AB Karlskoga, Sweden	SS/Other	Picatinny, NJ	Mar 08	Jun 10	4400	4192			
FY 2009	SAAB Bofors Dynamics AB Karlskoga, Sweden	SS/Other	Picatinny, NJ	Mar 09	Sep 10	4390	4246			

REMARKS: Other - Acquisition Strategy is for a new 5 year Indefinite Delivery/Indefinite Quantity (IDIQ) contract with SAAB/Bofors in FY2008. The contract with SAAB Bofors is in Swedish Krona and is subject to currency fluctuation

<b>FY 08 / 09 BUDGET PRODUCTION SCHEDULE</b>	P-1 ITEM NOMENCLATURE AT4 - Confined Space (E36101)	Date: February 2008
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COST ELEMENTS						Fiscal Year 08												Fiscal Year 09												Later
M F R	FY	S E R V	PROC QTY Each	ACCEP PRIOR TO 1 OCT	BAL DUE AS OF 1 OCT	Calendar Year 08												Calendar Year 09												
						O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	

Complete Round																																	
1	FY 07	A	4271	0	4271																												4271
1	FY 08	A	4400	0	4400																												4400
1	FY 09	A	4390	0	4390																							A					4390
Total			13061		13061																												13061
						O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P				

M F R	Name - Location	PRODUCTION RATES			Reached D+	MFR	ADMIN LEAD TIME		MFR After 1 Oct	TOTAL After 1 Oct	REMARKS		
		MIN	1-8-5	MAX			1	Prior 1 Oct				After 1 Oct	
								Initial					Reorder
1	SAAB Bofors Dynamics AB, Karlskoga, Sweden	500	5000	7000		1	6	8	24	32			
							6	6	18	24			



<b>FY 10 / 11 BUDGET PRODUCTION SCHEDULE</b>	P-1 ITEM NOMENCLATURE AT4 - Confined Space (E36101)	Date: February 2008
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COST ELEMENTS						Fiscal Year 10														Fiscal Year 11														Later
M F R	FY	S E R V	PROC QTY Each	ACCEP PRIOR TO 1 OCT	BAL DUE AS OF 1 OCT	Calendar Year 10														Calendar Year 11														
						O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P					
Complete Round																																		
1	FY 07	A	4271	0	4271						1407	1407	1457															0						
1	FY 08	A	4400	0	4400									1467	1467	1466												0						
1	FY 09	A	4390	0	4390												1450	1450	1490									0						
Total											1407	1407	1457	1467	1467	1466	1450	1450	1490															
						O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P					

M F R	Name - Location	PRODUCTION RATES			Reached D+	MFR	ADMIN LEAD TIME		MFR After 1 Oct	TOTAL After 1 Oct	REMARKS		
		MIN	1-8-5	MAX			1	Initial				Prior 1 Oct / After 1 Oct	
												6	8
1	SAAB Bofors Dynamics AB, Karlskoga, Sweden	500	5000	7000									

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

Date: February 2008

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

P-1 Item Nomenclature  
BUNKER DEFEAT MUNITION (E88401)

Program Elements for Code B Items:

Code:  
B

Other Related Program Elements:

	Prior Years	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013	To Complete	Total Prog
Proc Qty	12126	1750	702	443	1874	420	412	401		18128
Gross Cost	117.7	22.3	8.8	6.5	22.1	6.5	6.5	6.5		196.9
Less PY Adv Proc										
Plus CY Adv Proc										
Net Proc P1	117.7	22.3	8.8	6.5	22.1	6.5	6.5	6.5		196.9
Initial Spares										
Total Proc Cost	117.7	22.3	8.8	6.5	22.1	6.5	6.5	6.5		196.9
Flyaway U/C										
Weapon System Proc U/C										

**Description:**

The Bunker Defeat Munition (BDM) is a single-shot, disposable, shoulder-launched munition used to defeat earth and timber field fortifications (bunkers) out to 250 meters. The system also defeats lightly armored vehicles and breaches masonry walls using its 83mm High Explosive, Dual-Purpose rocket. Additionally, each telescoping launcher has an integral night-vision device mount to accept any sight or laser aiming light with rail-grabber attachment. The item is Code B, not approved for general service use, approved for use by contingency forces.

**Justification:**

This is a training standard item used in both training and combat. FY 2009 procurement supports annual training and builds a war reserve in accordance with the Army's procurement goals.

Type Classification: LRP 1994

AMMO Cost Elements		ID CD	FY 07			FY 08			FY 09		
			Total Cost \$000	Qty Each	Unit Cost \$000	Total Cost \$000	Qty Each	Unit Cost \$000	Total Cost \$000	Qty Each	Unit Cost \$000
<b>AMMUNITION HARDWARE</b>											
Complete Round			17805	1750	10	7139	688	10	4689	443	11
<b>SubTotal AMMO Hardware</b>			<b>17805</b>			<b>7139</b>			<b>4689</b>		
<b>PRODUCTION SUPPORT COSTS</b>											
Production Engineering			1665			1563			1666		
Acceptance Testing			510			100			120		
<b>SubTotal Production Support Costs</b>			<b>2175</b>			<b>1663</b>			<b>1786</b>		
IM Propellant			340								
First Article Test			450								
New Equipment Training			790								
IM Explosive (PAX 3) Production Proveout			768								
<b>SubTotal Non-Recurring Costs</b>			<b>2348</b>								
<b>Total:</b>			<b>22328</b>		<b>13</b>	<b>8802</b>		<b>13</b>	<b>6475</b>		<b>15</b>

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

Date:  
February 2008

Appropriation/Budget Activity/Serial No: Procurement of Ammunition, Army/ 1/ Ammunition		Weapon System Type:		P-1 Line Item Nomenclature: BUNKER DEFEAT MUNITION (E88401)						
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 2007	Talley Defense Systems Mesa, AZ	SS/FP	Picatinny, NJ	Mar 08	Jun 09	1750	10174			
FY 2008	Talley Defense Systems Mesa, AZ	SS/OPT	Picatinny, NJ	Mar 08	Aug 08	688	10377			
FY 2009	Talley Defense Systems Mesa, AZ	SS/OPT	Picatinny, NJ	Mar 09	Mar 10	443	10584			

REMARKS: REMARKS: Other - Acquisition Strategy is for a new 5 year Indefinite Delivery/Indefinite Quantity (IDIQ) contract with Talley Defense Systems in FY08.

<b>FY 08 / 09 BUDGET PRODUCTION SCHEDULE</b>	P-1 ITEM NOMENCLATURE BUNKER DEFEAT MUNITION (E88401)	Date: February 2008
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COST ELEMENTS						Fiscal Year 08														Fiscal Year 09										Later
M F R	FY	S E R V	PROC QTY Units	ACCEP PRIOR TO 1 OCT	BAL DUE AS OF 1 OCT	Calendar Year 08														Calendar Year 09										
						O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	

Complete Round																																								
1	FY 07 P	A	2875	0	2875																												700	700	350		0			
1	FY 08	A	688	0	688							A																							350	338	0			
1	FY 09	A	443	0	443																																	443		
Total			4006		4006																															700	700	700	338	443
						O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P											

M F R	Name - Location	PRODUCTION RATES			Reached D+	MFR	ADMIN LEAD TIME		MFR After 1 Oct	TOTAL After 1 Oct	REMARKS		
		MIN	1-8-5	MAX			Prior 1 Oct	After 1 Oct					
		1	Initial	Reorder			6	8				15	23
1	Talley Defense Systems, Mesa, AZ	100	700	1400		1	Initial	Reorder	6	8	15	23	
							Initial	Reorder					
							Initial	Reorder					
							Initial	Reorder					
							Initial	Reorder					
							Initial	Reorder					



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

Date: February 2008

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

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

Program Elements for Code B Items:

Code:  
A

Other Related Program Elements:

	Prior Years	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013	To Complete	Total Prog
Proc Qty										
Gross Cost	1342.8	164.1	156.9	142.5	148.5	123.8	177.0	243.8	1746.0	4245.5
Less PY Adv Proc										
Plus CY Adv Proc										
Net Proc P1	1342.8	164.1	156.9	142.5	148.5	123.8	177.0	243.8	1746.0	4245.5
Initial Spares										
Total Proc Cost	1342.8	164.1	156.9	142.5	148.5	123.8	177.0	243.8	1746.0	4245.5
Flyaway U/C										
Weapon System Proc U/C										

**Description:**

This budget line procures all Hydra 70 rocket types in support of operational, training and war reserve requirements. The system provides combat overmatch capability and ensures a near-term war fighting readiness posture. This system of aerial rockets is used by Army aircraft (AH-64A/D Apache, OH-58D Kiowa Warrior, Armed Reconnaissance Helicopter, and Special Operations aircraft) to perform a number of roles including anti-materiel, anti-personnel, and air-to-ground suppression. This budget line also funds efforts to address compliance to insensitive munitions requirements and identified safety, reliability and producibility issues via cut into the production line.

**Justification:**

FY2007 funding total includes \$28M received in GWOT supplemental.  
 FY2008 funding total includes \$20M received in The Consolidated Appropriations Act, 2008 (P.L. 110-161).  
 FY2008 funding totals do not include \$8M previously requested for current FY2008 GWOT requirements.

Actual amount for FY07 reflect changes since the publication of the P-1.

<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: February 2008	
<b>AMMO Cost Elements</b>		ID CD	<b>FY 07</b>			<b>FY 08</b>			<b>FY 09</b>		
			Total Cost	Qty	Unit Cost	Total Cost	Qty	Unit Cost	Total Cost	Qty	Unit Cost
			\$000	x1000	\$	\$000	x1000	\$	\$000	x1000	\$
E05302 ROCKET HYDRA 70 FLECHETTE M255A1			11000	12	917	18787	17	1105	20913	19	1101
E37335 ROCKET HYDRA 70 HE/PD M151/M423			37407	56	668	39613	52	762	22684	28	810
E37337 ROCKET HYDRA 70 SIG PRAC M274			115714	181	639	95998	143	671	98924	141	702
E37338 ROCKET HYDRA 70, FLARE IR M278						2531	1	2531			
<b>Total:</b>			<b>164121</b>			<b>156929</b>			<b>142521</b>		



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

Date: February 2008

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

P-1 Item Nomenclature  
ROCKET HYDRA 70 FLECHETTE M255A1 (E05302)

Program Elements for Code B Items:

Code:  
A

Other Related Program Elements:

	Prior Years	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013	To Complete	Total Prog
Proc Qty	47	12	17	19	20		27	76	89	307
Gross Cost	49.0	11.0	18.8	20.9	22.7		38.3	106.1	142.5	409.2
Less PY Adv Proc										
Plus CY Adv Proc										
Net Proc P1	49.0	11.0	18.8	20.9	22.7		38.3	106.1	142.5	409.2
Initial Spares										
Total Proc Cost	49.0	11.0	18.8	20.9	22.7		38.3	106.1	142.5	409.2
Flyaway U/C										
Weapon System Proc U/C	1.0	0.9	1.1	1.1	1.1		1.4	1.4	1.6	9.7

**Description:**

The HYDRA-70 family of rockets is used by Army aircraft (AH-64A/D Apache, OH-58D Kiowa Warrior, Armed Reconnaissance Helicopter, and Special Operations aircraft) to perform a number of roles including anti-materiel, anti-personnel and air-to-ground suppression. The M255A1 Flechette warhead is a cargo warhead consisting of a nose cone assembly, a warhead case, an integral fuze, 1,179 60-grain flechettes and an expulsion charge assembly. The M255A1 warhead is combined with the Mk66 rocket motor to complete the all up round. The primary fuze (M439) is remotely set with Aerial Rocket Control System (ARCS), Multifunctional Display (MFD) or Rocket Management System (RMS) to provide range from 500 meters to 7200 meters. At expulsion, the 1,179 60-grain, hardened-steel flechettes separate and form a disk-like mass which breaks up with each flechette assuming an independent trajectory. The flechette uses kinetic energy derived from the velocity of the rocket to produce the desired impact and penetration on the target. This item is Code A, approved for service use. This budget line also funds efforts to address compliance to insensitive munitions requirements and identified safety, reliability and producibility issues with the Mk66 Rocket Motor, shipping and storage container, warhead, fuse and umbilical cable via cut into the production line.

**Justification:**

This is a training and standard item used in both training and combat. FY2009 procurements support annual training and builds a war reserve inventory in accordance with the Army's goals.

TYPE CLASSIFICATION DATE: 25 March 2005.

<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 FLECHETTE M255A1 (E05302)			Weapon System Type:		Date: February 2008	
<b>AMMO Cost Elements</b>		ID CD	<b>FY 07</b>			<b>FY 08</b>			<b>FY 09</b>		
			Total Cost	Qty	Unit Cost	Total Cost	Qty	Unit Cost	Total Cost	Qty	Unit Cost
			\$000	x1000	\$	\$000	x1000	\$	\$000	x1000	\$
AMMUNITION HARDWARE											
Complete Round											
			10997	12	916	18074	17	1063	19837	19	1044
<b>Sub Total AMMO Hardware</b>			<b>10997</b>			<b>18074</b>			<b>19837</b>		
Production Engineering											
			3			713			1076		
<b>SubTotal Prod. Support</b>			<b>3</b>			<b>713</b>			<b>1076</b>		
<b>Total:</b>			<b>11000</b>		<b>1136</b>	<b>18787</b>		<b>1000</b>	<b>20913</b>		

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

Date:  
February 2008

Appropriation/Budget Activity/Serial No: Procurement of Ammunition, Army/ 1/ Ammunition		Weapon System Type:		P-1 Line Item Nomenclature: ROCKET HYDRA 70 FLECHETTE M255A1 (E05302)						
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 2007	General Dynamics Burlington, VT	SS/FP	AMCOM, Redstone Arsenal, AL	Aug 07	Dec 08	12	916	Y		Jun 04
FY 2008	General Dynamics Burlington, VT	SS/FP	AMCOM, Redstone Arsenal, AL	Feb 08	Aug 09	17	1063	Y		Jun 04
FY 2009	General Dynamics Burlington, VT	SS/FP	AMCOM, Redstone Arsenal, AL	Feb 09	Aug 10	19	1044	Y		Jul 08
FY 2010	General Dynamics Burlington, VT	SS/FP	AMCOM, Redstone Arsenal, AL	Feb 10	Aug 11	20	1075	Y		Jul 08
FY 2012	General Dynamics Burlington, VT	SS/FP	AMCOM, Redstone Arsenal, AL	Feb 12	Aug 13	27	1363	Y		Jul 08
FY 2013	General Dynamics Burlington, VT	SS/FP	AMCOM, Redstone Arsenal, AL	Feb 13	Aug 14	76	1349	Y		Jul 08

REMARKS: Sole Source/Fixed Price (SS/FP)





### FY 09 / 10 BUDGET PRODUCTION SCHEDULE

P-1 ITEM NOMENCLATURE  
ROCKET HYDRA 70 FLECHETTE M255A1 (E05302)

Date: February 2008

COST ELEMENTS						Fiscal Year 09															Fiscal Year 10															Later
MFR	FY	SERV	PROC QTY x1000	ACCEP PRIOR TO 1 OCT	BAL DUE AS OF 1 OCT	Calendar Year 09															Calendar Year 10															
						OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP							
1	FY 07	A	11.6	0.0	11.6			4.0		4.0		3.6																						0.0		
1	FY 08	A	17.0	0.0	17.0										2.0	2.0	2.0	2.0	2.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0			0.0			
1	FY 09	A	18.6	0.0	18.6					A																			2.0	2.0		14.6				
1	FY 10	A	19.7	0.0	19.7																A												19.7			
1	FY 12	A	27.5	0.0	27.5																												27.5			
1	FY 13	A	76.0	0.0	76.0																												76.0			
Total			170.4		170.4			4.0		4.0		3.6				2.0	2.0	2.0	2.0	2.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0			137.8			
						OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP							

MFR	Name - Location	PRODUCTION RATES			Reached D+	MFR	ADMIN LEAD TIME		MFR After 1 Oct	TOTAL After 1 Oct	REMARKS	
		MIN	1-8-5	MAX			Prior 1 Oct	After 1 Oct				
1	General Dynamics, Burlington, VT	0.3	6.5	13.0		1	Initial	6	7	22	29	
							Reorder	6	5	18	23	
							Initial					
							Reorder					
							Initial					
							Reorder					
							Initial					
							Reorder					
							Initial					
							Reorder					

**FY 11 / 12 BUDGET PRODUCTION SCHEDULE**

P-1 ITEM NOMENCLATURE  
ROCKET HYDRA 70 FLECHETTE M255A1 (E05302)

Date: February 2008

COST ELEMENTS						Fiscal Year 11														Fiscal Year 12												Later
MFR	FY	S E R V	PROC QTY x1000	ACCEP PRIOR TO 1 OCT	BAL DUE AS OF 1 OCT	Calendar Year 11														Calendar Year 12												
						O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P			
1	FY 07	A	11.6	11.6																								0.0				
1	FY 08	A	17.0	17.0																								0.0				
1	FY 09	A	18.6	4.0	14.6	2.0	2.0	2.0	2.0	1.6	1.0	1.0	1.0	1.0	1.0												0.0					
1	FY 10	A	19.7	0.0	19.7										2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	1.7	1.0	1.0	1.0	1.0	0.0				
1	FY 12	A	27.5	0.0	27.5																						27.5					
1	FY 13	A	76.0	0.0	76.0																						76.0					
Total			170.4	32.6	137.8	2.0	2.0	2.0	2.0	1.6	1.0	1.0	1.0	1.0	1.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	1.7	1.0	1.0	1.0	1.0	103.5				
						O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P			

MFR	Name - Location	PRODUCTION RATES			Reached D+	MFR	ADMIN LEAD TIME		MFR After 1 Oct	TOTAL After 1 Oct	REMARKS	
		MIN	1-8-5	MAX			Prior 1 Oct	After 1 Oct				
1	General Dynamics, Burlington, VT	0.3	6.5	13.0		1	Initial	6	7	22	29	
							Reorder	6	5	18	23	
							Initial					
							Reorder					
							Initial					
							Reorder					
							Initial					
							Reorder					
							Initial					
							Reorder					





<b>FY 15 / 16 BUDGET PRODUCTION SCHEDULE</b>	P-1 ITEM NOMENCLATURE ROCKET HYDRA 70 FLECHETTE M255A1 (E05302)	Date: February 2008
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COST ELEMENTS						Fiscal Year 15												Fiscal Year 16												Later
M F R	FY	S E R V	PROC QTY x1000	ACCEP PRIOR TO 1 OCT	BAL DUE AS OF 1 OCT	Calendar Year 15												Calendar Year 16												
						O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	
1	FY 07	A	11.6	11.6																								0.0		
1	FY 08	A	17.0	17.0																								0.0		
1	FY 09	A	18.6	18.6																								0.0		
1	FY 10	A	19.7	19.7																								0.0		
1	FY 12	A	27.5	27.5																								0.0		
1	FY 13	A	76.0	14.0	62.0	7.0	7.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0												0.0			
Total			170.4	108.4	62.0	7.0	7.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0																
						O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	

M F R	Name - Location	PRODUCTION RATES			Reached D+	MFR	ADMIN LEAD TIME		MFR After 1 Oct	TOTAL After 1 Oct	REMARKS	
		MIN	1-8-5	MAX			Prior 1 Oct	After 1 Oct				
1	General Dynamics, Burlington, VT	0.3	6.5	13.0		1	Initial	6	7	22	29	
							Reorder	6	5	18	23	
							Initial					
							Reorder					
							Initial					
							Reorder					
							Initial					
							Reorder					
							Initial					
							Reorder					

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

Date: February 2008

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

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

Program Elements for Code B Items:

Code:  
A

Other Related Program Elements:

	Prior Years	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013	To Complete	Total Prog
Proc Qty	595	56	52	28	24	23	24	24	656	1482
Gross Cost	331.9	37.4	39.6	22.7	19.5	24.0	24.4	24.4	619.3	1143.2
Less PY Adv Proc										
Plus CY Adv Proc										
Net Proc P1	331.9	37.4	39.6	22.7	19.5	24.0	24.4	24.4	619.3	1143.2
Initial Spares										
Total Proc Cost	331.9	37.4	39.6	22.7	19.5	24.0	24.4	24.4	619.3	1143.2
Flyaway U/C										
Weapon System Proc U/C	0.6	0.7	0.8	0.8	0.8	1.0	1.0	1.0	0.9	7.6

**Description:**

The HYDRA-70 family of rockets is used by Army aircraft (AH-64A/D Apache, OH-58D Kiowa Warrior helicopters, Armed Reconnaissance Helicopter, and Special Operations aircraft) to perform a number of roles including anti-materiel, anti-personnel, and air-to-ground suppression. The M151 HEPD is a unitary fragmenting 10-lb anti-personnel warhead with the M423 Point Detonating Fuze. Upon detonation, the warhead fragments into thousands of small, high velocity fragments. The M151 warhead is combined with the Mk66 rocket motor to complete the all up round. This item is Code A, approved for service use. This budget line also funds efforts to address compliance to insensitive munitions requirements and identified safety, reliability and producibility issues with the Mk66 Rocket Motor, shipping and storage container, warhead, fuse via cut into the production line.

**Justification:**

This is a training standard item used in both training and combat. FY 2009 procurements support annual training and builds a war reserve inventory in accordance with the Army's procurement goals.

TYPE CLASSIFICATION DATE: 26 February 1982

<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: February 2008	
<b>AMMO Cost Elements</b>		ID CD	<b>FY 07</b>			<b>FY 08</b>			<b>FY 09</b>		
			Total Cost	Qty	Unit Cost	Total Cost	Qty	Unit Cost	Total Cost	Qty	Unit Cost
			\$000	x1000	\$	\$000	x1000	\$	\$000	x1000	\$
<b>AMMUNITION HARDWARE</b>											
Complete Round			35155	56	628	38400	52	738	21041	28	751
Containers											
<b>SubTotal AMMO Hardware</b>			<b>35155</b>			<b>38400</b>			<b>21041</b>		
<b>Production Support Costs</b>											
Production Engineering			2252			1213			1643		
<b>SubTotal Prod. Support</b>			<b>2252</b>			<b>1213</b>			<b>1643</b>		
<b>Total:</b>			<b>37407</b>		<b>763</b>	<b>39613</b>		<b>789</b>	<b>22684</b>		<b>798</b>

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

Date:  
February 2008

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 2007	General Dynamics Burlington, VT	SS/FP	AMCOM, Redstone Arsenal, AL	Feb 07	Mar 09	56	628	Y		Jun 04
FY 2008	General Dynamics Burlington, VT	SS/FP	AMCOM, Redstone Arsenal, AL	Feb 08	Aug 09	52	738	Y		Jun 04
FY 2009	General Dynamics Burlington, VT	SS/FP	AMCOM, Redstone Arsenal, AL	Feb 09	Aug 10	28	751	Y		Jun 04
FY 2010	General Dynamics Burlington, VT	SS/FP	AMCOM, Redstone Arsenal, AL	Feb 10	Aug 11	24	754	Y		Jul 08
FY 2011	General Dynamics Burlington, VT	SS/FP	AMCOM, Redstone Arsenal, AL	Feb 11	Aug 12	23	966	Y		Jul 08
FY 2012	General Dynamics Burlington, VT	SS/FP	AMCOM, Redstone Arsenal, AL	Feb 12	Aug 13	24	965	Y		Jul 08
FY 2013	General Dynamics Burlington, VT	SS/FP	AMCOM, Redstone Arsenal, AL	Feb 13	Aug 14	24	969	Y		Jul 08

REMARKS: Sole Source/Fixed Price (SS/FP)

**FY 05 / 06 BUDGET PRODUCTION SCHEDULE**

P-1 ITEM NOMENCLATURE  
ROCKET HYDRA 70 HE/PD M151/M423 (E37335)

Date: February 2008

COST ELEMENTS						Fiscal Year 05														Fiscal Year 06														Later
MFR	FY	S E R V	PROC QTY x1000	ACCEP PRIOR TO 1 OCT	BAL DUE AS OF 1 OCT	Calendar Year 05														Calendar Year 06														
						O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P					
1	FY 07	A	56.2	0.0	56.2																									56.2				
1	FY 08	A	52.0	0.0	52.0																									52.0				
1	FY 09	A	28.4	0.0	28.4																									28.4				
1	FY 10	A	23.8	0.0	23.8																									23.8				
1	FY 11	A	22.8	0.0	22.8																									22.8				
1	FY 12	A	24.1	0.0	24.1																									24.1				
1	FY 13	A	24.1	0.0	24.1																									24.1				
Total			231.4		231.4																									231.4				

MFR	Name - Location	PRODUCTION RATES			Reached D+	MFR	ADMIN LEAD TIME		MFR After 1 Oct	TOTAL After 1 Oct	REMARKS
		MIN	1-8-5	MAX			Prior 1 Oct	After 1 Oct			
		1	General Dynamics, Burlington, VT	0.3			15.0	46.0			
						Reorder	6	5	18	23	
						Initial					
						Reorder					
						Initial					
						Reorder					
						Initial					
						Reorder					
						Initial					
						Reorder					

COST ELEMENTS						Fiscal Year 07														Fiscal Year 08												Later
M F R	FY	S E R V	PROC QTY x1000	ACCEP PRIOR TO 1 OCT	BAL DUE AS OF 1 OCT	Calendar Year 07														Calendar Year 08												
						O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P			
1	FY 07	A	56.2	0.0	56.2					A																					56.2	
1	FY 08	A	52.0	0.0	52.0																A										52.0	
1	FY 09	A	28.4	0.0	28.4																										28.4	
1	FY 10	A	23.8	0.0	23.8																										23.8	
1	FY 11	A	22.8	0.0	22.8																										22.8	
1	FY 12	A	24.1	0.0	24.1																										24.1	
1	FY 13	A	24.1	0.0	24.1																										24.1	
Total			231.4		231.4																										231.4	
						O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P			

M F R	Name - Location	PRODUCTION RATES			Reached D+	MFR	ADMIN LEAD TIME		MFR After 1 Oct	TOTAL After 1 Oct	REMARKS FY07 lead time extended due to supplemental buy.
		MIN	1-8-5	MAX			Prior 1 Oct	After 1 Oct			
		1	Initial	Reorder							
1	General Dynamics, Burlington, VT	0.3	15.0	46.0		1	Initial	6	7	22	29
							Reorder	6	5	18	23
							Initial				
							Reorder				
							Initial				
							Reorder				
							Initial				
							Reorder				
							Initial				
							Reorder				



**FY 11 / 12 BUDGET PRODUCTION SCHEDULE**

P-1 ITEM NOMENCLATURE  
ROCKET HYDRA 70 HE/PD M151/M423 (E37335)

Date: February 2008

COST ELEMENTS						Fiscal Year 11												Fiscal Year 12												Later				
MFR	FY	S E R V	PROC QTY x1000	ACCEP PRIOR TO 1 OCT	BAL DUE AS OF 1 OCT	Calendar Year 11												Calendar Year 12																
						O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P					
1	FY 07	A	56.2	56.2																														0.0
1	FY 08	A	52.0	52.0																														0.0
1	FY 09	A	28.4	6.0	22.4	3.0	3.0	2.4	2.0	2.0	2.0	2.0	2.0	2.0	2.0																		0.0	
1	FY 10	A	23.8	0.0	23.8										2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	1.8				0.0		
1	FY 11	A	22.8	0.0	22.8					A																				2.0	2.0	18.8		
1	FY 12	A	24.1	0.0	24.1																	A											24.1	
1	FY 13	A	24.1	0.0	24.1																												24.1	
Total			231.4	114.2	117.2	3.0	3.0	2.4	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	1.8	2.0	2.0		67.0		
						O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P					

MFR	Name - Location	PRODUCTION RATES			Reached D+	MFR	ADMIN LEAD TIME		MFR After 1 Oct	TOTAL After 1 Oct	REMARKS	
		MIN	1-8-5	MAX			Prior 1 Oct	After 1 Oct				
		1	Initial	Reorder								
1	General Dynamics, Burlington, VT	0.3	15.0	46.0		1	Initial	6	7	22	29	
							Reorder	6	5	18	23	
							Initial					
							Reorder					
							Initial					
							Reorder					
							Initial					
							Reorder					
							Initial					
							Reorder					



COST ELEMENTS						Fiscal Year 13														Fiscal Year 14														Later
M F R	FY	S E R V	PROC QTY x1000	ACCEP PRIOR TO 1 OCT	BAL DUE AS OF 1 OCT	Calendar Year 13														Calendar Year 14														
						O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P					
1	FY 07	A	56.2	56.2																														0.0
1	FY 08	A	52.0	52.0																														0.0
1	FY 09	A	28.4	28.4																														0.0
1	FY 10	A	23.8	23.8																														0.0
1	FY 11	A	22.8	4.0	18.8	2.0	2.0	2.0	2.0	2.0	2.0	2.0	1.8	1.0																			0.0	
1	FY 12	A	24.1	0.0	24.1										2.1	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0				0.0		
1	FY 13	A	24.1	0.0	24.1					A																				2.1	2.0	20.0		
Total																																		
						O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P					

M F R	Name - Location	PRODUCTION RATES			Reached D+	MFR	ADMIN LEAD TIME		MFR After 1 Oct	TOTAL After 1 Oct	REMARKS	
		MIN	1-8-5	MAX			Prior 1 Oct	After 1 Oct				
1	General Dynamics, Burlington, VT	0.3	15.0	46.0		1	Initial	6	7	22	29	
							Reorder	6	5	18	23	
							Initial					
							Reorder					
							Initial					
							Reorder					
							Initial					
							Reorder					



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

Date: February 2008

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

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

Program Elements for Code B Items:

Code:  
A

Other Related Program Elements:

	Prior Years	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013	To Complete	Total Prog
Proc Qty	2115	181	143	141	128	106	130	130	1230	4304
Gross Cost	953.3	115.7	96.0	98.9	92.6	89.3	105.8	104.8	943.0	2599.4
Less PY Adv Proc										
Plus CY Adv Proc										
Net Proc P1	953.3	115.7	96.0	98.9	92.6	89.3	105.8	104.8	943.0	2599.4
Initial Spares										
Total Proc Cost	953.3	115.7	96.0	98.9	92.6	89.3	105.8	104.8	943.0	2599.4
Flyaway U/C										
Weapon System Proc U/C	0.5	0.6	0.7	0.7	0.7	0.8	0.8	0.8	0.8	6.4

**Description:**

The HYDRA-70 family of rockets is used by Army aircraft (AH-64A/D Apache, OH-58D Kiowa Warrior, Armed Reconnaissance Helicopter, and Special Operations aircraft) to perform a number of roles including anti-materiel, anti-personnel, and air-to-ground suppression. The M274 warhead is a smoke/flash signature practice warhead used for pilot/gunner training missions and consists of a cast iron warhead modified with vent holes, an aluminum nose cap with firing pin, a M423 fuze safe and arming device, and a smoke/flash cartridge. The M274 warhead is combined with the Mk66 rocket motor to complete the all up round. The M274, with the Mk66 Mod 4 rocket motor and electromagnetic radiation protection, can be fired by all aircraft. This item is Code A, approved for service use. This budget line also funds efforts to address compliance to insensitive munitions requirements and identified safety, reliability and producibility issues with the Mk66 Rocket Motor, shipping and storage container, warhead, fuse via cut into the production line.

**Justification:**

This is a training unique item not used in combat. FY 2009 procurement supports annual training in accordance with the Army's procurement goals.

TYPE CLASSIFICATION DATE: 1986

Exhibit P-5, Weapon AMMO Cost Analysis		Appropriation/Budget Activity/Serial No: Procurement of Ammunition, Army / 1 / Ammunition		P-1 Line Item Nomenclature: ROCKET HYDRA 70 SIG PRAC M274 (E37337)			Weapon System Type:		Date: February 2008		
AMMO Cost Elements		ID CD	FY 07			FY 08			FY 09		
			Total Cost	Qty	Unit Cost	Total Cost	Qty	Unit Cost	Total Cost	Qty	Unit Cost
			\$000	x1000	\$	\$000	x1000	\$	\$000	x1000	\$
<b>AMMUNITION HARDWARE</b>											
Complete Round			102828	181	568	89626	143	627	90765	141	644
<b>SubTotal AMMO Hardware</b>			<b>102828</b>			<b>89626</b>			<b>90765</b>		
<b>Production Support Costs</b>											
Production Engineering			12886			6372			8159		
<b>SubTotal Prod. Support</b>			<b>12886</b>			<b>6372</b>			<b>8159</b>		
<b>Total:</b>			<b>115714</b>		<b>674</b>	<b>95998</b>		<b>679</b>	<b>98924</b>		<b>691</b>

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

Date:  
February 2008

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 2007	General Dynamics Burlington, VT	SS/FP	AMCOM, Redstone Arsenal, AL	Feb 07	Dec 08	181	568	Y		Jun 04
FY 2008	General Dynamics Burlington, VT	SS/FP	AMCOM, Redstone Arsenal, AL	Feb 08	Aug 09	143	627	Y		Jun 04
FY 2009	General Dynamics Burlington, VT	SS/FP	AMCOM, Redstone Arsenal, AL	Feb 09	Aug 10	141	644	Y		Jun 04
FY 2010	General Dynamics Burlington, VT	SS/FP	AMCOM, Redstone Arsenal, AL	Feb 10	Aug 11	128	664	Y		Jul 08
FY 2011	General Dynamics Burlington, VT	SS/FP	AMCOM, Redstone Arsenal, AL	Feb 11	Aug 12	106	766	Y		Jul 08
FY 2012	General Dynamics Burlington, VT	SS/FP	AMCOM, Redstone Arsenal, AL	Feb 12	Aug 13	130	760	Y		Jul 08
FY 2013	General Dynamics Burlington, VT	SS/FP	AMCOM, Redstone Arsenal, AL	Feb 13	Aug 14	130	759	Y		Jul 08

REMARKS: Sole Source/Fixed Price (SS/FP)









**FY 11 / 12 BUDGET PRODUCTION SCHEDULE**

P-1 ITEM NOMENCLATURE  
ROCKET HYDRA 70 SIG PRAC M274 (E37337)

Date: February 2008

COST ELEMENTS						Fiscal Year 11											Fiscal Year 12											Later											
MFR	FY	S E R V	PROC QTY x1000	ACCEP PRIOR TO 1 OCT	BAL DUE AS OF 1 OCT	Calendar Year 11											Calendar Year 12																						
						O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L		A U G	S E P									
1	FY 07	A	180.7	180.7																																			0.0
1	FY 08	A	143.0	143.0																																		0.0	
1	FY 09	A	141.0	24.0	117.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	11.0	11.0	11.0																						0.0		
1	FY 10	A	128.1	0.0	128.1										11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	10.1	10.0	10.0	10.0									0.0			
1	FY 11	A	105.8	0.0	105.8					A																									9.0	9.0	87.8		
1	FY 12	A	129.5	0.0	129.5																	A														129.5			
1	FY 13	A	129.9	0.0	129.9																															129.9			
Total						958.0	347.7	610.3	12.0	12.0	12.0	12.0	12.0	12.0	12.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	10.1	10.0	10.0	10.0	10.0	10.0	10.0	9.0	9.0	347.2			
						O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P										

MFR	Name - Location	PRODUCTION RATES			Reached D+	MFR	ADMIN LEAD TIME		MFR After 1 Oct	TOTAL After 1 Oct	REMARKS	
		MIN	1-8-5	MAX			Prior 1 Oct	After 1 Oct				
1	General Dynamics, Burlington, VT	0.3	25.0	46.0		1	Initial	6	7	22	29	
							Reorder	6	5	18	23	
							Initial					
							Reorder					
							Initial					
							Reorder					
							Initial					
							Reorder					
							Initial					
							Reorder					





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

Date: February 2008

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 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013	To Complete	Total Prog
Proc Qty										
Gross Cost	344.7	54.5	33.9	28.9	31.6	30.4	30.4	30.9		585.3
Less PY Adv Proc										
Plus CY Adv Proc										
Net Proc P1	344.7	54.5	33.9	28.9	31.6	30.4	30.4	30.9		585.3
Initial Spares										
Total Proc Cost	344.7	54.5	33.9	28.9	31.6	30.4	30.4	30.9		585.3
Flyaway U/C										
Weapon System Proc U/C										

**Description:**

This budget line includes Demolition Munitions, All Types.

FY 2007 funding total includes \$23.5 Million received in GWOT supplemental.

FY 2008 funding total includes \$0 received in The Consolidated Appropriations Act, 2008 (P.L. 110-161).

FY 2008 funding totals do not include \$8.0 Million previously requested for current FY 2008 GWOT 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: DEMOLITION MUNITIONS, ALL TYPES (E55400)			Weapon System Type:		Date: February 2008	
<b>AMMO Cost Elements</b>		ID CD	<b>FY 07</b>			<b>FY 08</b>			<b>FY 09</b>		
			Total Cost	Qty	Unit Cost	Total Cost	Qty	Unit Cost	Total Cost	Qty	Unit Cost
			\$000	x1000	\$	\$000	x1000	\$	\$000	x1000	\$
Qty in thousands unless otherwise noted											
E50601 Chg Demo Blk C-4 1-1/4 lb M112			10928	513	21	5427	227	24	5285	218	24
E50701 Demo Kit Bangalore Torpedo, M1A2			1100	1	2200						
E50800 Chg Demo Blk TNT 1/4 lb			4450								
E51300 Chg Demo BLK Cratering 40 LB			1877	3	642	5666	11	534	5816	9	635
E51400 Chg Demo Sheet 50FT Roll (QTY ft)			1550	101	15	74	1	52	76	1	97
E52000 Slectable Ltwt Attack Mun (SLAM)			5036								
E52400 Cap Blasting Non-Elec inert						18	2	8	18	2	8
E52500 Cap Blasting Elec M6			286								
E52600 Cap Blasting Non-Elec M7			50								
E53100 Chg Demo Shaped M2 15 LB			1270	1	1510	4547	7	620	4598	7	672
E54100 Cord Detonating Type 1 (QTY ft)			690	3384		552	1956		567	2015	
E55600 Firing Device Multipurpose, M142			4000								
E56500 Fuse Blasting Time M700			6								
E60200 Cutter Ctg Act 2 Sec Delay, M21			5000	13	381	2787	6	456	2000	4	514
E76701 Cutter HE MK23-0		ea	506	1854	345	119	230	517	130	480	271
E76702 Cutter HE MK24-0						795	4	220	1700	8	222
E76713 Flex Linear shaped Charge 225 GR						3178	35	90			
E76727 Chg Ltwt MK-171						1129	8	142	348	2	220
E78201 Chg Demo Sheet 38ft Roll (QTY ft)			599	2	300	447	13	34	460	19	25
E81301 Holder for Blst Cp & Shk Tube M9			256	321	1				391	577	1
E81305 Cap Blasting Non-Elec,Delay, M14			1757	186	9	1934	226	9	2142	226	9
E81306 Cap, Blast Inert Non-El w/70' M15			1088	88	12	137	7	21	139	12	12
E81307 Igniter Time Fuze & Shk Tube, M81			614	72	9	969	111	9	1068	124	9
E81310 Cap Blast Inert Non-El Delay, M14						115	10	12			
E88300 Igniter Electric Match, M79			1006			75	5	15	75	4	16
E94100 Booster Demo Charge, M151			425	54	8	586	47	13	605	46	13
E94200 Booster Demo Charge, M152						2284	282	8	300	27	11
E99000 Emergency Parachute Jettison Devi		ea	310	450	689						
E99301 Rapid Wall Breaching Kit M322		ea	9891	2504	3950						
E99903 Blast Cap, NonEl:500' Mntube, M21			770	11	70	1226	18	69	1267	29	44

Exhibit P-5, Weapon AMMO Cost Analysis	Appropriation/Budget Activity/Serial No: Procurement of Ammunition, Army / 1 / Ammunition	P-1 Line Item Nomenclature: DEMOLITION MUNITIONS, ALL TYPES (E55400)			Weapon System Type:	Date: February 2008				
AMMO Cost Elements	ID	FY 07			FY 08			FY 09		
	CD	Total Cost	Qty	Unit Cost	Total Cost	Qty	Unit Cost	Total Cost	Qty	Unit Cost
		\$000	x1000	\$	\$000	x1000	\$	\$000	x1000	\$
E99904 Blast Cap, NonEl:500' Inert, M22		80	2	40						
E99905 Blast Cap NonEl:1000' Mntube, M23		907	12	76	1849	24	76	1901	31	62
<b>Total:</b>		<b>54452</b>			<b>33914</b>			<b>28886</b>		

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

Date: February 2008

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

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

Program Elements for Code B Items:

Code: A

Other Related Program Elements:

	Prior Years	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013	To Complete	Total Prog
Proc Qty	10481	513	227	218	304	194	182	178		12297
Gross Cost	107.1	10.9	5.4	5.3	7.1	4.9	4.8	4.7		150.2
Less PY Adv Proc										
Plus CY Adv Proc										
Net Proc P1	107.1	10.9	5.4	5.3	7.1	4.9	4.8	4.7		150.2
Initial Spares										
Total Proc Cost	107.1	10.9	5.4	5.3	7.1	4.9	4.8	4.7		150.2
Flyaway U/C										
Weapon System Proc U/C										

**Description:**

Composition C-4 is the primary demolition explosive used by the U.S. Army. The M112 Demolition Block is used for general demolition and in particular for destruction of captured enemy ammunition. The block demolition charge consists of 1-1/4 pounds of composition C-4 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:**

This is a training standard item used in both training and combat. FY 2009 procurement supports annual training, demilitarization requirements, and builds a war reserve inventory in accordance with the Army's procurement goals.

TYPE CLASSIFICATION DATE: Prior to 1960

<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: February 2008	
<b>AMMO Cost Elements</b>		ID CD	<b>FY 07</b>			<b>FY 08</b>			<b>FY 09</b>		
			Total Cost \$000	Qty x1000	Unit Cost \$	Total Cost \$000	Qty x1000	Unit Cost \$	Total Cost \$000	Qty x1000	Unit Cost \$
<b>HARDWARE</b>											
LOAD, ASSEMBLE, PACK			2840	513	6	1163	227	5	1427	218	7
COMP C-4 CLASS 3			4713	585	8	2722	300	8	2727	288	9
<b>SUBTOTAL HARDWARE</b>			<b>7553</b>			<b>3885</b>			<b>4154</b>		
<b>PRODUCTION SUPPORT COSTS</b>											
PRODUCTION ENGINEERING			1983			1522			1106		
QUALITY ASSURANCE			19			20			25		
<b>SUBTOTAL PRODUCTION SUPPORT</b>			<b>2002</b>			<b>1542</b>			<b>1131</b>		
<b>NON-RECURRING COSTS</b>											
Insensitive Munition Effort			230								
Engr Study - Explosive Production			500								
Engr Study - Modernization			643								
<b>SUBTOTAL NON-RECURRING COSTS</b>			<b>1373</b>								
<b>Total:</b>			<b>10928</b>		<b>21</b>	<b>5427</b>		<b>24</b>	<b>5285</b>		<b>24</b>



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

Date:  
February 2008

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
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)							
<b>LOAD, ASSEMBLE, PACK</b>										
FY 2007	American Ordnance Milan, TN	SS/FP	ROCK ISLAND, IL	May 07	Mar 08	513	6			
FY 2008	To Be Selected Milan AAP, Milan TN	C/FP	ROCK ISLAND, IL	Oct 08	Apr 10	227	5			
FY 2009	To Be Selected Milan AAP, Milan TN	Other/FP	ROCK ISLAND, IL	Mar 09	Aug 10	218	7			
<b>COMP C-4 CLASS 3</b>										
FY 2007	BAE Systems (Holston AAP) Kingsport, TN	SS/FP	ROCK ISLAND, IL	May 07	Sep 07	585	8			
FY 2008	BAE Systems (Holston AAP) Kingsport, TN	SS/FP	ROCK ISLAND, IL	Oct 08	Feb 09	300	8			
FY 2009	BAE Systems (Holston AAP) Kingsport, TN	SS/FP	ROCK ISLAND, IL	Mar 09	Jul 09	288	9			

REMARKS: The facilities use contract for Milan Army Ammunition Plant will be competed in FY 2008. The FY 2008 and subsequent programs will be awarded with the plant operations.

<b>FY 08 / 09 BUDGET PRODUCTION SCHEDULE</b>	P-1 ITEM NOMENCLATURE CHG DEMO BLK COMP C-4 1-1/4 LB M112 (E50601)	Date: February 2008
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COST ELEMENTS						Fiscal Year 08												Fiscal Year 09												Later
M F R	FY	S E R V	PROC QTY x1000	ACCEP PRIOR TO 1 OCT	BAL DUE AS OF 1 OCT	Calendar Year 08												Calendar Year 09												
						O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	

LOAD, ASSEMBLE, PACK																														
1	FY 07 P	A	2287	1350	937	100	100	100	100	24	88	88	88	88	88	73														0
2	FY 08	A	227	0	227													A												227
2	FY 09	A	218	0	218																A									218
1	FY 07 P	AF	89	0	89					66	4	4	4	4	4	3														0
2	FY 08	AF	36	0	36													A												36
2	FY 09	AF	29	0	29																A									29
2	FY 08	NS	24	0	24													A												24
1	FY 07	SOF	27	0	27					4	4	4	4	4	7															0
2	FY 09	SOF	27	0	27																A									27
Total			2964	1350	1614	100	100	100	100	90	96	96	96	96	96	83														561
						O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	

M F R	Name - Location	PRODUCTION RATES			Reached D+	MFR	ADMIN LEAD TIME		MFR After 1 Oct	TOTAL After 1 Oct	REMARKS	
		MIN	1-8-5	MAX			Prior 1 Oct	After 1 Oct				
1	American Ordnance, Milan, TN	14	97	120		1	Initial	6	8	12	20	Delivery schedule represents continuous production for FY 2008 and FY 2009. All items are produced within the Funded Delivery Period.
						Reorder	6	6	10	16		
2	To Be Selected, Milan AAP, Milan TN	10	100	120		2	Initial	6	8	18	26	
						Reorder	6	6	12	18		
						Initial						
						Reorder						
						Initial						
						Reorder						

<b>FY 10 / 11 BUDGET PRODUCTION SCHEDULE</b>	P-1 ITEM NOMENCLATURE CHG DEMO BLK COMP C-4 1-1/4 LB M112 (E50601)	Date: February 2008
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COST ELEMENTS						Fiscal Year 10													Fiscal Year 11													Later
M F R	FY	S E R V	PROC QTY x1000	ACCEP PRIOR TO 1 OCT	BAL DUE AS OF 1 OCT	Calendar Year 10													Calendar Year 11													
						O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P			

LOAD, ASSEMBLE, PACK																														
1	FY 07 P	A	2287	2287																										0
2	FY 08	A	227	0	227							15	25	75	75	37														0
2	FY 09	A	218	0	218											21	40	40	40	40	37									0
1	FY 07 P	AF	89	89																										0
2	FY 08	AF	36	0	36							20	16																	0
2	FY 09	AF	29	0	29											4	5	5	5	5	5									0
2	FY 08	NS	24	0	24							15	9																	0
1	FY 07	SOF	27	27																										0
2	FY 09	SOF	27	0	27											4	5	5	5	5	3									0
Total			2964	2403	561							50	50	75	75	66	50	50	50	50	45									
						O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	

M F R	Name - Location	PRODUCTION RATES			Reached D+	MFR	ADMIN LEAD TIME		MFR After 1 Oct	TOTAL After 1 Oct	REMARKS	
		MIN	1-8-5	MAX			Prior 1 Oct	After 1 Oct				
1	American Ordnance, Milan, TN	14	97	120		1	Initial	6	8	12	20	Delivery schedule represents continuous production for FY 2008 and FY 2009. All items are produced within the Funded Delivery Period.
							Reorder	6	6	10	16	
2	To Be Selected, Milan AAP, Milan TN	10	100	120		2	Initial	6	8	18	26	
							Reorder	6	6	12	18	
							Initial					
							Reorder					
							Initial					
							Reorder					
							Initial					
							Reorder					

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

Date: February 2008

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

P-1 Item Nomenclature  
CHG DEMO BLK CRATERING 40 LB (E51300)

Program Elements for Code B Items:

Code:  
A

Other Related Program Elements:

	Prior Years	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013	To Complete	Total Prog
Proc Qty	3895	3	11	9	10	10	10	10		3958
Gross Cost	24.6	1.9	5.7	5.8	5.9	6.1	6.2	6.3		62.4
Less PY Adv Proc										
Plus CY Adv Proc										
Net Proc P1	24.6	1.9	5.7	5.8	5.9	6.1	6.2	6.3		62.4
Initial Spares										
Total Proc Cost	24.6	1.9	5.7	5.8	5.9	6.1	6.2	6.3		62.4
Flyaway U/C										
Weapon System Proc U/C										

**Description:**

The 40 lb. cratering charge is a demolition charge designed to destroy roads, bridge abutments, runways, buildings, fortifications and other concrete structures. It uses a low velocity explosive which destroys by a lifting and heaving motion rather than the cutting action of high velocity charges. This item is Code A, approved for service use.

**Justification:**

This is a training standard item used in both training and combat. FY 2009 procurement supports annual training, and builds a depot level inventory in accordance with the Army's procurement goals.

TYPE CLASSIFICATION DATE: Prior to 1960

Exhibit P-5, Weapon AMMO Cost Analysis	Appropriation/Budget Activity/Serial No: Procurement of Ammunition, Army / 1 / Ammunition	P-1 Line Item Nomenclature: CHG DEMO BLK CRATERING 40 LB (E51300)			Weapon System Type:	Date: February 2008				
AMMO Cost Elements	ID	FY 07			FY 08			FY 09		
	CD	Total Cost	Qty	Unit Cost	Total Cost	Qty	Unit Cost	Total Cost	Qty	Unit Cost
		\$000	x1000	\$	\$000	x1000	\$	\$000	x1000	\$
<b>AMMUNITION HARDWARE</b>										
Load, Assemble, and Pack		1154	3	348	4876	11	455	4746	9	518
Comp B Type 1 Grade A (lb)*		283	106	2	773	313	2	789	342	2
Aluminum Powder (lb)		65	31	2	177	86	2	190	94	2
Comp D-2 (lb)*		55	7	8	447	22	21	401	21	19
<b>SubTotal AMMO Hardware</b>		<b>1557</b>			<b>6273</b>			<b>6126</b>		
<b>Production Support Costs</b>										
Production Engineering		307			605			304		
Quality Assurance		10			7			2		
<b>SubTotal Prod. Support</b>		<b>317</b>			<b>612</b>			<b>306</b>		
<b>COST - Nonrecurring</b>										
*Government Furnished Material		-338			-1219			-789		
Process Improvement ECP		341						173		
<b>SubTotal COST - Nonrecurring</b>		<b>3</b>			<b>-1219</b>			<b>-616</b>		
<b>Total:</b>		<b>1877</b>		<b>642</b>	<b>5666</b>		<b>534</b>	<b>5816</b>		<b>635</b>

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

Date:  
February 2008

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
Appropriation/Budget Activity/Serial No: Procurement of Ammunition, Army/ 1/ Ammunition		Weapon System Type:		P-1 Line Item Nomenclature: CHG DEMO BLK CRATERING 40 LB (E51300)						
<b>Load, Assemble, and Pack</b>										
FY 2007	American Ordnance IAAP Middleton, IA	SS/FP	Rock Island, IL	Mar 07	Nov 07	3	348			
FY 2008	To Be Selected IAAP, Middleton, IA	C/FP	Rock Island, IL	Oct 08	Apr 10	11	455			
FY 2009	To Be Selected IAAP, Middleton, IA	Other/FP	Rock Island, IL	Mar 09	Oct 10	9	518			
<b>Comp B Type 1 Grade A (lb)*</b>										
FY 2007	Stock Issue	N/A	N/A			106	2			
FY 2008	Stock Issue	N/A	N/A			313	2			
FY 2009	Stock Issue	N/A	N/A			342	2			
<b>Aluminum Powder (lb)</b>										
FY 2007	AMPAL Palmerton, PA	C/OPT	Rock Island, IL	Apr 07	Aug 07	31	2			
FY 2008	To Be Selected	C/FP	Rock Island, IL	May 08	Sep 08	86	2			
FY 2009	To Be Selected	C/OPT	Rock Island, IL	Mar 09	Jul 09	94	2			
<b>Comp D-2 (lb)*</b>										
FY 2007	Stock Issue	N/A	N/A			7	8			
FY 2008	Stock Issue	N/A	N/A			22	21			
FY 2009	To Be Selected	C/FP	Rock Island, IL	Mar 09	Mar 10	21	19			

REMARKS: American Ordnance Facilities Use Contract(FUC) on Iowa Army Ammunition Plant (IAAP) expires in FY2008. FY2008 and subsequent buys will be competed with plant operations. Facilities Use Contract award has slipped to October 2008. Composition D-2 will be supplied from stock in FY2008. Starting in FY2009 it will be procured and charged to the using programs

<b>FY 08 / 09 BUDGET PRODUCTION SCHEDULE</b>	P-1 ITEM NOMENCLATURE CHG DEMO BLK CRATERING 40 LB (E51300)	Date: February 2008
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COST ELEMENTS						Fiscal Year 08													Fiscal Year 09													Later
M F R	FY	S E R V	PROC QTY x1000	ACCEP PRIOR TO 1 OCT	BAL DUE AS OF 1 OCT	Calendar Year 08													Calendar Year 09													
						O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P			
Load, Assemble, and Pack																																
1	FY 07 P	A	3	0	3				2	1																			0			
2	FY 08	A	11	0	11																								11			
2	FY 09	A	9	0	9																								9			
1	FY 07	MC	4	0	4					1	1																		0			
2	FY 08	MC	3	0	3																								3			
2	FY 09	MC	12	0	12																								12			
Total									2	2	1																			35		
						O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P			

M F R	Name - Location	PRODUCTION RATES			Reached D+	MFR	ADMIN LEAD TIME		MFR After 1 Oct	TOTAL After 1 Oct	REMARKS	
		MIN	1-8-5	MAX			Prior 1 Oct	After 1 Oct				
												1
1	American Ordnance IAAP, Middleton, IA	1	3	5		1	Initial	6	8	18	26	
							Reorder	6	6	15	21	
2	To Be Selected, IAAP, Middleton, IA	1	3	5		2	Initial	6	8	18	26	
							Reorder	6	6	15	21	
							Initial					
							Reorder					
							Initial					
							Reorder					
							Initial					
							Reorder					

<b>FY 10 / 11 BUDGET PRODUCTION SCHEDULE</b>	P-1 ITEM NOMENCLATURE CHG DEMO BLK CRATERING 40 LB (E51300)	Date: February 2008
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COST ELEMENTS						Fiscal Year 10												Fiscal Year 11												Later
M F R	FY	S E R V	PROC QTY x1000	ACCEP PRIOR TO 1 OCT	BAL DUE AS OF 1 OCT	Calendar Year 10												Calendar Year 11												
						O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	

Load, Assemble, and Pack																														
1	FY 07 P	A	3	3																										0
2	FY 08	A	11	0	11					1	1	1	2	3	3															0
2	FY 09	A	9	0	9											1	1	1	1	1	1	1	1	1	1	1	1	1	0	
1	FY 07	MC	4	4																										0
2	FY 08	MC	3	0	3							1	1	1																0
2	FY 09	MC	12	0	12											1	1	1	1	1	1	1	2	2	2				0	
Total			42	7	35						1	2	2	3	3	3	2	2	2	2	2	2	3	3	3					
						O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	

M F R	Name - Location	PRODUCTION RATES			Reached D+	MFR	ADMIN LEAD TIME		MFR After 1 Oct	TOTAL After 1 Oct	REMARKS	
		MIN	1-8-5	MAX			Prior 1 Oct	After 1 Oct				
		1	Initial	6			8	18	26			
1	American Ordnance IAAP, Middleton, IA	1	3	5		1	Initial	6	8	18	26	
						1	Reorder	6	6	15	21	
2	To Be Selected, IAAP, Middleton, IA	1	3	5		2	Initial	6	8	18	26	
						2	Reorder	6	6	15	21	
							Initial					
							Reorder					
							Initial					
							Reorder					
							Initial					
							Reorder					



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

Date: February 2008

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

P-1 Item Nomenclature  
SELECTIVE LTWT ATTACK MUNITION, M4 (E52000)

Program Elements for Code B Items:

Code:  
A

Other Related Program Elements:

	Prior Years	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013	To Complete	Total Prog
Proc Qty	12									12
Gross Cost	29.6	5.0								34.6
Less PY Adv Proc										
Plus CY Adv Proc										
Net Proc P1	29.6	5.0								34.6
Initial Spares										
Total Proc Cost	29.6	5.0								34.6
Flyaway U/C										
Weapon System Proc U/C										

**Description:**

The Selectable Lightweight Attack Munition (SLAM) is a multipurpose munition designed to be readily portable and hand-emplaced against lightly armored 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 M4 Army SLAM has a self destruct feature if no target presents itself in the required time during mine or side attack modes. The M2 Special Operations Forces (SOF) SLAM self neutralizes instead of self-destructs if no target presents itself in the required time during the mine or side attack modes. The Improved SLAM will incorporate several producibility and safety enhancements; these include changes to the mode/time selector switch, housing base and cover assembly and passive sensor assembly. A battery bleed resistor and electronic safe and arming device will be added for improved safety.

This item is Code A, approved for Army use.

**Justification:**

Procurement funded engineering changes for safety and producibility and updated the Tech Data Package for future procurement.

Type Classification Date: M2 SOF SLAM - June 1994 - Standard  
M4 Army SLAM - August 1996 - Standard

<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, M4 (E52000)			Weapon System Type:		Date: February 2008	
<b>AMMO Cost Elements</b>		ID	<b>FY 07</b>			<b>FY 08</b>			<b>FY 09</b>		
		CD	Total Cost	Qty	Unit Cost	Total Cost	Qty	Unit Cost	Total Cost	Qty	Unit Cost
			\$000	x1000	\$	\$000	x1000	\$	\$000	x1000	\$
Hardware											
<b>Subtotal</b>											
<b>Production Support Costs</b>											
Production Engineering			681								
<b>Subtotal</b>			<b>681</b>								
<b>Non-Recurring Costs</b>											
Producibility and Safety Engineering			4355								
<b>Subtotal</b>			<b>4355</b>								
<b>Total:</b>			<b>5036</b>								

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

Date: February 2008

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

P-1 Item Nomenclature  
CUTTER CTG ACTUATED 2 SEC DELAY M21 (E60200)

Program Elements for Code B Items:

Code:  
A

Other Related Program Elements:

	Prior Years	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013	To Complete	Total Prog
Proc Qty	229	13	6	4	6	6	6	6		276
Gross Cost	14.5	5.0	2.8	2.0	2.9	3.0	3.0	3.1		36.3
Less PY Adv Proc										
Plus CY Adv Proc										
Net Proc P1	14.5	5.0	2.8	2.0	2.9	3.0	3.0	3.1		36.3
Initial Spares										
Total Proc Cost	14.5	5.0	2.8	2.0	2.9	3.0	3.0	3.1		36.3
Flyaway U/C										
Weapon System Proc U/C										

**Description:**

The M21 Cutter is a cartridge actuated device that is used in aerial delivery systems for cargo. It severs a reefing line which allows a parachute to fully deploy. The cutter is installed in a mounting bracket which is attached to the parachute. Major components consist of a case, firing pin assembly, lanyard, knife assembly, delay assembly, and cotter pin. This item is Code A, approved for service use.

**Justification:**

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

TYPE CLASSIFICATION DATE: 1980

Exhibit P-5, Weapon AMMO Cost Analysis		Appropriation/Budget Activity/Serial No: Procurement of Ammunition, Army / 1 / Ammunition			P-1 Line Item Nomenclature: CUTTER CTG ACTUATED 2 SEC DELAY M21 (E60200)			Weapon System Type:		Date: February 2008	
AMMO Cost Elements		ID CD	FY 07			FY 08			FY 09		
			Total Cost	Qty	Unit Cost	Total Cost	Qty	Unit Cost	Total Cost	Qty	Unit Cost
			\$000	x1000	\$	\$000	x1000	\$	\$000	x1000	\$
<b>HARDWARE</b>											
M21 Cutter, Complete			4557	13	348	2506	6	415	1683	4	433
<b>SUBTOTAL HARDWARE</b>			<b>4557</b>			<b>2506</b>			<b>1683</b>		
<b>PROGRAM SUPPORT</b>											
Production Engineering			443			281			317		
<b>SUBTOTAL PROGRAM SUPPORT</b>			<b>443</b>			<b>281</b>			<b>317</b>		
<b>Total:</b>			<b>5000</b>		<b>381</b>	<b>2787</b>		<b>456</b>	<b>2000</b>		<b>514</b>

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

Date:  
February 2008

Appropriation/Budget Activity/Serial No: Procurement of Ammunition, Army/ 1/ Ammunition		Weapon System Type:	P-1 Line Item Nomenclature: CUTTER CTG ACTUATED 2 SEC DELAY M21 (E60200)							
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>M21 Cutter, Complete</b>										
FY 2007	Navy Surface Warfare Center Indian Head, MD	SS/CR	Indian Head, MD	Jun 07	Jun 09	13	348			
FY 2008	Navy Surface Warfare Center Indian Head, MD	SS/CR	Indian Head, MD	Mar 08	Mar 10	6	415			
FY 2009	Navy Surface Warfare Center Indian Head, MD	SS/CR	Indian Head, MD	Mar 09	Mar 11	4	433			

REMARKS: CR - Cost Reimbursable

<b>FY 08 / 09 BUDGET PRODUCTION SCHEDULE</b>														P-1 ITEM NOMENCLATURE CUTTER CTG ACTUATED 2 SEC DELAY M21 (E60200)										Date: February 2008	
--	--	--	--	--	--	--	--	--	--	--	--	--	--	---	--	--	--	--	--	--	--	--	--	------------------------	--

COST ELEMENTS					Fiscal Year 08															Fiscal Year 09														
---------------	--	--	--	--	----------------	--	--	--	--	--	--	--	--	--	--	--	--	--	--	----------------	--	--	--	--	--	--	--	--	--	--	--	--	--	--

M F R	FY	S E R V	PROC QTY x1000	ACCEP PRIOR TO 1 OCT	BAL DUE AS OF 1 OCT	Calendar Year 08															Calendar Year 09															Later
						O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P							

M21 Cutter, Complete																																								
1	FY 07	A	13	0	13																													1	1	1	1	9		
1	FY 08	A	6	0	6																																6			
1	FY 09	A	4	0	4																																4			
Total			23		23																															1	1	1	1	19
						O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P											

M F R	Name - Location	PRODUCTION RATES			Reached D+	MFR	ADMIN LEAD TIME		MFR After 1 Oct	TOTAL After 1 Oct	REMARKS	
		MIN	1-8-5	MAX			Prior 1 Oct	After 1 Oct				
		1	Initial	Reorder			6	8	27	35		
1	Navy Surface Warfare Center, Indian Head, MD	1	2	4		1	Initial	6	8	27	35	
							Reorder	6	6	24	30	
							Initial					
							Reorder					
							Initial					
							Reorder					
							Initial					
							Reorder					
							Initial					
							Reorder					

**FY 10 / 11 BUDGET PRODUCTION SCHEDULE**

P-1 ITEM NOMENCLATURE  
CUTTER CTG ACTUATED 2 SEC DELAY M21 (E60200)

Date: February 2008

COST ELEMENTS					Fiscal Year 10												Fiscal Year 11												Later																							
MFR	FY	S E R V	PROC QTY x1000	ACCEP PRIOR TO 1 OCT	BAL DUE AS OF 1 OCT	Calendar Year 10												Calendar Year 11																																		
						O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G		S E P																						
M21 Cutter, Complete																																																				
1	FY 07	A	13	4	9	1	2	2	2	2																		0																								
1	FY 08	A	6	0	6						1	1	1	1	1													0																								
1	FY 09	A	4	0	4																		1	1	1	1		0																								
Total																																																				
<table border="1"> <tr> <td>O C T</td><td>N O V</td><td>D E C</td><td>J A N</td><td>F E B</td><td>M A R</td><td>A P R</td><td>M A Y</td><td>J U N</td><td>J U L</td><td>A U G</td><td>S E P</td><td>O C T</td><td>N O V</td><td>D E C</td><td>J A N</td><td>F E B</td><td>M A R</td><td>A P R</td><td>M A Y</td><td>J U N</td><td>J U L</td><td>A U G</td><td>S E P</td> </tr> </table>																													O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P
O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P																													

MFR	Name - Location	PRODUCTION RATES			Reached D+	MFR	ADMIN LEAD TIME		MFR After 1 Oct	TOTAL After 1 Oct	REMARKS	
		MIN	1-8-5	MAX			Prior 1 Oct	After 1 Oct				
1	Navy Surface Warfare Center, Indian Head, MD	1	2	4		1	Initial	6	8	27	35	
							Reorder	6	6	24	30	
							Initial					
							Reorder					
							Initial					
							Reorder					
							Initial					
							Reorder					
							Initial					
							Reorder					

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

Date: February 2008

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

P-1 Item Nomenclature  
Demolition Kit, Rapid Wall Breach M322 (E99301)

Program Elements for Code B Items:

Code:  
A

Other Related Program Elements:

	Prior Years	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013	To Complete	Total Prog
Proc Qty	1375	2504								3879
Gross Cost	7.1	9.9								17.0
Less PY Adv Proc										
Plus CY Adv Proc										
Net Proc P1	7.1	9.9								17.0
Initial Spares										
Total Proc Cost	7.1	9.9								17.0
Flyaway U/C										
Weapon System Proc U/C										

**Description:**

The M322 Demolition Kit, Rapid Wall Breach, (RWBK) is a man-portable demolition kit that rapidly creates man sized hole in triple brick and reinforced concrete walls. M322 Kit includes: 11 foot Flexible Linear Shaped Charge, 200 foot shock tube initiation system, an attachment device to the target and a carrying bag. There are two training devices associated with the kit. The M323 Collective trainer used detonation cord in lieu of the main charge and can create holes in plywood targets. The M324 is an inert version. This item is code A, approved for service use.

**Justification:**

This is a training standard item used in both training and combat.

TYPE CLASSIFICATION DATE: Standard Nov 2004



<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 Kit, Rapid Wall Breach M322 (E99301)			Weapon System Type:		Date: February 2008		
<b>AMMO Cost Elements</b>		ID CD	<b>FY 07</b>			<b>FY 08</b>			<b>FY 09</b>		
			Total Cost	Qty	Unit Cost	Total Cost	Qty	Unit Cost	Total Cost	Qty	Unit Cost
			\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000
<b>AMMUNITION HARDWARE</b>											
M322 Tactical RWBK			8130	2504	3						
<b>SubTotal AMMO Hardware</b>			<b>8130</b>								
<b>Production Support Costs</b>											
Production Engineering			1685								
<b>SubTotal Prod. Support</b>			<b>1685</b>								
<b>COST - Nonrecurring</b>											
Production Verification Test			76								
<b>SubTotal COST - Nonrecurring</b>			<b>76</b>								
<b>Total:</b>			<b>9891</b>		<b>4</b>						

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

Date:  
February 2008

Appropriation/Budget Activity/Serial No: Procurement of Ammunition, Army/ 1/ Ammunition		Weapon System Type:	P-1 Line Item Nomenclature: Demolition Kit, Rapid Wall Breach M322 (E99301)							
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>M322 Tactical RWBK</b> FY 2007	Ensign Bickford Inc. Simsbury, CT	SS/FP	Picatinny, NJ	Mar 08	Jun 09	2405	3247			

REMARKS:

COST ELEMENTS						Fiscal Year 08														Fiscal Year 09														Later
MFR	FY	SERV	PROC QTY Each	ACCEP PRIOR TO 1 OCT	BAL DUE AS OF 1 OCT	Calendar Year 08														Calendar Year 09														
						OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP					
M322 Tactical RWBK																																		
1	FY 07 P	A	3237	0	3237								35	60	85	110	143	150	150										50	100	150	225	1979	
Total													35	60	85	110	143	150	150										50	100	150	225	1979	
						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	ADMIN LEAD TIME		MFR After 1 Oct	TOTAL After 1 Oct	REMARKS
		MIN	1-8-5	MAX			Prior 1 Oct	After 1 Oct			
		1	Ensign Bickford Inc., Simsbury, CT	50			150	300			
						Reorder	6	6	12	18	
						Initial					
						Reorder					
						Initial					
						Reorder					
						Initial					
						Reorder					
						Initial					
						Reorder					

<b>FY 10 / 11 BUDGET PRODUCTION SCHEDULE</b>	P-1 ITEM NOMENCLATURE Demolition Kit, Rapid Wall Breach M322 (E99301)	Date: February 2008
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COST ELEMENTS						Fiscal Year 10												Fiscal Year 11												Later
M F R	FY	S E R V	PROC QTY Each	ACCEP PRIOR TO 1 OCT	BAL DUE AS OF 1 OCT	Calendar Year 10												Calendar Year 11												
						O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	

M322 Tactical RWBK																														
1	FY 07 P	A	3237	1258	1979	250	250	250	250	250	250	250	229																	0
Total						3237	1258	1979	250	250	250	250	250	229																
						O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	

M F R	Name - Location	PRODUCTION RATES			Reached D+	MFR	ADMIN LEAD TIME		MFR After 1 Oct	TOTAL After 1 Oct	REMARKS
		MIN	1-8-5	MAX			Prior 1 Oct	After 1 Oct			
				1			Initial	Reorder			
1	Ensign Bickford Inc., Simsbury, CT	50	150	300		1	6	8	15	23	
							6	6	12	18	

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

Date: February 2008

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 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013	To Complete	Total Prog
Proc Qty										
Gross Cost	677.8	65.8	75.9	71.6	102.4	60.4	65.5	77.2		1196.6
Less PY Adv Proc										
Plus CY Adv Proc										
Net Proc P1	677.8	65.8	75.9	71.6	102.4	60.4	65.5	77.2		1196.6
Initial Spares										
Total Proc Cost	677.8	65.8	75.9	71.6	102.4	60.4	65.5	77.2		1196.6
Flyaway U/C										
Weapon System Proc U/C										

**Description:**

This budget line includes Grenades, All Types.

FY 2007 funding total includes \$2 million received in GWOT supplemental.

FY 2008 funding total includes \$0 received in The Consolidated Appropriations Act, 2008 (P.L. 110-161).

FY 2008 funding totals do not include \$10 million previously requested for current FY 2008 GWOT 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: GRENADES, ALL TYPES (E34000)				Weapon System Type:		Date: February 2008	
<b>AMMO Cost Elements</b>	ID	<b>FY 07</b>			<b>FY 08</b>			<b>FY 09</b>		
	CD	Total Cost	Qty	Unit Cost	Total Cost	Qty	Unit Cost	Total Cost	Qty	Unit Cost
		\$000	x1000	\$	\$000	x1000	\$	\$000	x1000	\$
E00500 Grenade Smoke Screen Prac M82		990			3809	7	544	3764	6	627
E31900 Fuze Grenade Hand Prac M228		23224	5387	4	28636	5962	5	27275	5495	5
E32000 Grenade Hand Frag Delay M67		12299	365	34	11139	257	43	11439	314	36
E34001 Grenade Hand Smoke Green M18		2895	65	45	7808	138	57	6188	126	49
E34002 Grenade Hand Smoke Yellow M18		3652	86	42	6082	104	58	3979	82	48
E34003 Grenade Hand Smoke Red M18		2211	39	57	2908	44	66	3103	58	53
E34004 Grenade Hand Smoke Violet M18		1538	26	59	4091	69	59	4149	84	50
E69300 Grenade Hand Smoke Tng M83		8461	192	62	8914	138	65	9154	177	52
E93500 Grenade, Rifle Entry Mun M100		10553	15	1293	1943	1	1343	1996	1	1360
E99912 Gren, Rifle Entry Mun, Trng M101					546	4	154	561	4	157
<b>Total:</b>		<b>65823</b>			<b>75876</b>			<b>71608</b>		

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

Date: February 2008

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

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

Program Elements for Code B Items:

Code:  
A

Other Related Program Elements:

	Prior Years	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013	To Complete	Total Prog
Proc Qty	98696	5387	5962	5495	11727	2175	2911	5016		137369
Gross Cost	156.1	23.2	28.6	27.3	57.5	12.5	16.4	27.2		348.9
Less PY Adv Proc										
Plus CY Adv Proc										
Net Proc P1	156.1	23.2	28.6	27.3	57.5	12.5	16.4	27.2		348.9
Initial Spares										
Total Proc Cost	156.1	23.2	28.6	27.3	57.5	12.5	16.4	27.2		348.9
Flyaway U/C										
Weapon System Proc U/C										

**Description:**

The M228 Fuze is used with the M69 practice hand grenade. The individual soldier uses it to simulate the M67 Fragmentation Grenade. It is a pyrotechnic, delay-igniting fuze that is placed by the soldier into the reusable grenade body. This item is Code A, approved for service use.

**Justification:**

This is a training unique item not used in combat. FY 2009 procurement supports annual training and builds a depot level in accordance with the Army's procurement goals.

TYPE CLASSIFICATION DATE: 1971

Exhibit P-5, Weapon AMMO Cost Analysis		Appropriation/Budget Activity/Serial No: Procurement of Ammunition, Army / 1 / Ammunition			P-1 Line Item Nomenclature: FUZE GRENADE HAND PRAC M228 (E31900)			Weapon System Type:		Date: February 2008	
AMMO Cost Elements		ID CD	FY 07			FY 08			FY 09		
			Total Cost	Qty	Unit Cost	Total Cost	Qty	Unit Cost	Total Cost	Qty	Unit Cost
			\$000	x1000	\$	\$000	x1000	\$	\$000	x1000	\$
<b>HARDWARE</b>											
COMPLETE FUZE			22017	5387	4	27118	5962	5	25520	5495	5
<b>H/W SUBTOTAL</b>			<b>22017</b>			<b>27118</b>			<b>25520</b>		
<b>PRODUCTION SUPPORT COSTS</b>											
PRODUCTION ENGINEERING			1189			1498			1734		
QUALITY ASSURANCE			18			20			21		
<b>PROD SUPPORT SUBTOTAL</b>			<b>1207</b>			<b>1518</b>			<b>1755</b>		
<b>Total:</b>			<b>23224</b>		<b>4</b>	<b>28636</b>		<b>5</b>	<b>27275</b>		<b>5</b>



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

Date:  
February 2008

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 FUZE</b>										
FY 2007	MARTIN ELECTRONICS INC PERRY, FL	C/Option	ROCK ISLAND, IL	Mar 07	Oct 08	1775	4			
FY 2007	ALLIANT TECHSYSTEMS ROCKET CENTER, WV	C/Option	ROCK ISLAND, IL	Mar 07	Mar 08	2663	4			
FY 2007	MARTIN ELECTRONICS INC PERRY, FL	SS/FP	ROCK ISLAND, IL	Apr 07	Apr 08	949	4			
FY 2008	ALLIANT TECHSYSTEMS ROCKET CENTER, WV	C/Option	ROCK ISLAND, IL	Mar 08	Feb 10	3034	5			
FY 2008	MARTIN ELECTRONICS INC PERRY, FL	C/Option	ROCK ISLAND, IL	Mar 08	Mar 09	2928	5			
FY 2009	TO BE SELECTED	C/FP	ROCK ISLAND, IL	May 09	Nov 10	2198	5			
FY 2009	TO BE SELECTED	C/FP	ROCK ISLAND, IL	May 09	Nov 10	3297	5			

REMARKS: FY2007 and FY2008 are options to existing FY05 contracts.  
Two new 5 yr contracts, (base+4 options) will be awarded in FY 2009.  
FY 2008 and prior deliveries are based on current actual production schedules.

<b>FY 08 / 09 BUDGET PRODUCTION SCHEDULE</b>	P-1 ITEM NOMENCLATURE FUZE GRENADE HAND PRAC M228 (E31900)	Date: February 2008
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COST ELEMENTS						Fiscal Year 08													Fiscal Year 09													Later
M F R	FY	S E R V	PROC QTY x1000	ACCEP PRIOR TO 1 OCT	BAL DUE AS OF 1 OCT	Calendar Year 08													Calendar Year 09													
						O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P			

COMPLETE FUZE																														
2	FY 07	A	8083	0	8083				380	380	380	380	30	380	380	380	10	290	370	370	380	380	200	380	380	380	380	250	380	1243
1	FY 07	A	5388	1110	4278	360	360	360	360	360	340	340	340	340	340		148	340	290											0
1	FY 07	A	949	0	949														50	340	300	259							0	
1	FY 08	A	2928	0	2928						A												244	244	244	244	244	244	244	1220
2	FY 08	A	3034	0	3034						A																		3034	
3	FY 09	A	2198	0	2198																					A			2198	
4	FY 09	A	3297	0	3297																					A			3297	
1	FY 07	MC	1632	960	672										260	272	140												0	
2	FY 07	MC	1100	0	1100								350				370	80					170					130	0	
						O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	

M F R	Name - Location	PRODUCTION RATES			Reached D+	MFR	ADMIN LEAD TIME		MFR After 1 Oct	TOTAL After 1 Oct	REMARKS	
		MIN	1-8-5	MAX			Prior 1 Oct	After 1 Oct				
		1	2	3			4	Initial	Reorder			
1	MARTIN ELECTRONICS INC, PERRY, FL	200	280	475		1	Initial	6	8	18	26	
							Reorder	6	6	12	18	
2	ALLIANT TECHSYSTEMS, ROCKET CENTER, WV	100	190	380		2	Initial	6	8	18	26	
							Reorder	6	6	12	18	
3	TO BE SELECTED	200	280	460		3	Initial	6	8	18	26	
							Reorder	6	6	12	18	
4	TO BE SELECTED	200	280	460		4	Initial	6	8	18	26	
							Reorder	6	6	12	18	
							Initial					
							Reorder					

<b>FY 08 / 09 BUDGET PRODUCTION SCHEDULE</b>	P-1 ITEM NOMENCLATURE FUZE GRENADE HAND PRAC M228 (E31900)	Date: February 2008
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COST ELEMENTS					Fiscal Year 08														Fiscal Year 09														Later			
M F R	FY	S E R V	PROC QTY x1000	ACCEP PRIOR TO 1 OCT	BAL DUE AS OF 1 OCT	Calendar Year 08														Calendar Year 09																
						O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P							
1	FY 08	MC	2354	0	2354							A															196	196	196	196	196	196		196	196	982
2	FY 08	MC	1659	0	1659						A																								1659	
3	FY 09	MC	486	0	486																														486	
4	FY 09	MC	594	0	594																														594	
1	FY 07 P	NS	4	0	4								4																						0	
1	FY 08	NS	10	0	10						A																								3	
3	FY 09	NS	10	0	10																														10	
1	FY 07 P	SOF	5	0	5								5																						0	
1	FY 08	SOF	10	0	10						A																								3	
4	FY 09	SOF	10	0	10																														10	
<b>Total</b>																																				
					O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P								

M F R	Name - Location	PRODUCTION RATES			Reached D+	MFR	ADMIN LEAD TIME		MFR After 1 Oct	TOTAL After 1 Oct	REMARKS	
		MIN	1-8-5	MAX			Prior 1 Oct	After 1 Oct				
		1	MARTIN ELECTRONICS INC, PERRY, FL	200			280	475		1		Initial
							Reorder	6	6	12	18	
2	ALLIANT TECHSYSTEMS, ROCKET CENTER, WV	100	190	380		2	Initial	6	8	18	26	
							Reorder	6	6	12	18	
3	TO BE SELECTED	200	280	460		3	Initial	6	8	18	26	
4	TO BE SELECTED	200	280	460		3	Reorder	6	6	12	18	
						4	Initial	6	8	18	26	
						4	Reorder	6	6	12	18	
							Initial					
							Reorder					

<b>FY 10 / 11 BUDGET PRODUCTION SCHEDULE</b>	P-1 ITEM NOMENCLATURE FUZE GRENADE HAND PRAC M228 (E31900)	Date: February 2008
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COST ELEMENTS					Fiscal Year 10										Fiscal Year 11										Later	
M F R	FY	S E R V	PROC QTY x1000	ACCEP PRIOR TO 1 OCT	BAL DUE AS OF 1 OCT	Calendar Year 10										Calendar Year 11										
						O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R		M A Y

COMPLETE FUZE																															
2	FY 07 P	A	8083	6840	1243	380	380	268	215																					0	
1	FY 07 P	A	5388	5388																										0	
1	FY 07 P	A	949	949																										0	
1	FY 08	A	2928	1708	1220	244	244	244	244	244																				0	
2	FY 08	A	3034	0	3034					246	246	246	246	246	246	246	246	246	161												413
3	FY 09	A	2198	0	2198													150	200	368	369	368	369	374							0
4	FY 09	A	3297	0	3297													150	209	389	389	389	389	389	389	389	215				0
1	FY 07 P	MC	1632	1632																											0
2	FY 07 P	MC	1100	1100																											0
						O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P		

M F R	Name - Location	PRODUCTION RATES			Reached D+	MFR	ADMIN LEAD TIME		MFR After 1 Oct	TOTAL After 1 Oct	REMARKS	
		MIN	1-8-5	MAX			Prior 1 Oct	After 1 Oct				
		1	2	3			4	Initial	Reorder			
1	MARTIN ELECTRONICS INC, PERRY, FL	200	280	475		1	Initial	6	8	18	26	
							Reorder	6	6	12	18	
2	ALLIANT TECHSYSTEMS, ROCKET CENTER, WV	100	190	380		2	Initial	6	8	18	26	
							Reorder	6	6	12	18	
3	TO BE SELECTED	200	280	460		3	Initial	6	8	18	26	
							Reorder	6	6	12	18	
4	TO BE SELECTED	200	280	460		4	Initial	6	8	18	26	
							Reorder	6	6	12	18	
							Initial					
							Reorder					

FY 10 / 11 BUDGET PRODUCTION SCHEDULE													P-1 ITEM NOMENCLATURE FUZE GRENADE HAND PRAC M228 (E31900)							Date: February 2008																						
COST ELEMENTS					Fiscal Year 10													Fiscal Year 11													Later											
MFR	FY	S R V	PROC QTY x1000	ACCEP PRIOR TO 1 OCT	BAL DUE AS OF 1 OCT	Calendar Year 10													Calendar Year 11																							
						O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P													
1	FY 08	MC	2354	1372	982	196	196	196	197	197																														0		
2	FY 08	MC	1659	0	1659				112	134	134	134	134	134	134	134	134	134	134	134	73																				0	
3	FY 09	MC	486	0	486														49	79	90	90	90	44	44														0			
4	FY 09	MC	594	0	594														49	70	70	70	70	70	70	70	47	39	39										0			
1	FY 07 P	NS	4	4																																			0			
1	FY 08	NS	10	7	3	1	1	1																															0			
3	FY 09	NS	10	0	10														1	1	2	1	2	1	2													0				
1	FY 07 P	SOF	5	5																																			0			
1	FY 08	SOF	10	7	3	1	1	1																															0			
4	FY 09	SOF	10	0	10														1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0			
<b>Total</b>																																									413	
						O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P													

  

MFR	Name - Location	PRODUCTION RATES			Reached D+	MFR	ADMIN LEAD TIME		MFR After 1 Oct	TOTAL After 1 Oct	REMARKS
		MIN	1-8-5	MAX			Prior 1 Oct	After 1 Oct			
1	MARTIN ELECTRONICS INC, PERRY, FL	200	280	475		1	Initial	6	8	18	26
							Reorder	6	6	12	18
2	ALLIANT TECHSYSTEMS, ROCKET CENTER, WV	100	190	380		2	Initial	6	8	18	26
							Reorder	6	6	12	18
3	TO BE SELECTED	200	280	460		3	Initial	6	8	18	26
							Reorder	6	6	12	18
4	TO BE SELECTED	200	280	460		4	Initial	6	8	18	26
							Reorder	6	6	12	18

<b>FY 12 / 13 BUDGET PRODUCTION SCHEDULE</b>	P-1 ITEM NOMENCLATURE FUZE GRENADE HAND PRAC M228 (E31900)	Date: February 2008
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COST ELEMENTS					Fiscal Year 12													Fiscal Year 13													Later	
M F R	FY	S E R V	PROC QTY x1000	ACCEP PRIOR TO 1 OCT	BAL DUE AS OF 1 OCT	Calendar Year 12													Calendar Year 13													
						O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P			

COMPLETE FUZE																																
2	FY 07 P	A	8083	8083																											0	
1	FY 07 P	A	5388	5388																											0	
1	FY 07 P	A	949	949																											0	
1	FY 08	A	2928	2928																											0	
2	FY 08	A	3034	2621	413																										413	
3	FY 09	A	2198	2198																											0	
4	FY 09	A	3297	3297																											0	
1	FY 07 P	MC	1632	1632																											0	
2	FY 07 P	MC	1100	1100																											0	

M F R	Name - Location	PRODUCTION RATES			Reached D+	MFR	ADMIN LEAD TIME		MFR After 1 Oct	TOTAL After 1 Oct	REMARKS
		MIN	1-8-5	MAX			Prior 1 Oct	After 1 Oct			
1	MARTIN ELECTRONICS INC, PERRY, FL	200	280	475		1	Initial	6	8	18	FY 2008 and prior production by Alliant Techsystems is outside funded delivery period. FY2009 is scheduled to be delivered within the funded delivery period.
						1	Reorder	6	6	12	
2	ALLIANT TECHSYSTEMS, ROCKET CENTER, WV	100	190	380		2	Initial	6	8	18	
						2	Reorder	6	6	12	
3	TO BE SELECTED	200	280	460		3	Initial	6	8	18	
						3	Reorder	6	6	12	
4	TO BE SELECTED	200	280	460		4	Initial	6	8	18	
						4	Reorder	6	6	12	
							Initial				
							Reorder				

COST ELEMENTS						Fiscal Year 12													Fiscal Year 13													Later
M F R	FY	S E R V	PROC QTY x1000	ACCEP PRIOR TO 1 OCT	BAL DUE AS OF 1 OCT	Calendar Year 12													Calendar Year 13													
						O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P			
1	FY 08	MC	2354	2354																									0			
2	FY 08	MC	1659	1659																									0			
3	FY 09	MC	486	486																									0			
4	FY 09	MC	594	594																									0			
1	FY 07 P	NS	4	4																									0			
1	FY 08	NS	10	10																									0			
3	FY 09	NS	10	10																									0			
1	FY 07 P	SOF	5	5																									0			
1	FY 08	SOF	10	10																									0			
4	FY 09	SOF	10	10																									0			
Total																															413	
						O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P			

M F R	Name - Location	PRODUCTION RATES			Reached D+	MFR	ADMIN LEAD TIME		MFR After 1 Oct	TOTAL After 1 Oct	REMARKS
		MIN	1-8-5	MAX			Prior 1 Oct	After 1 Oct			
1	MARTIN ELECTRONICS INC, PERRY, FL	200	280	475		1	Initial	6	8	18	FY 2008 and prior production by Alliant Techsystems is outside funded delivery period. FY2009 is scheduled to be delivered within the funded delivery period.
							Reorder	6	6	12	
2	ALLIANT TECHSYSTEMS, ROCKET CENTER, WV	100	190	380		2	Initial	6	8	18	
							Reorder	6	6	12	
3	TO BE SELECTED	200	280	460		3	Initial	6	8	18	
							Reorder	6	6	12	
4	TO BE SELECTED	200	280	460		4	Initial	6	8	18	
							Reorder	6	6	12	
							Initial				
							Reorder				

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

Date: February 2008

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

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

Program Elements for Code B Items:

Code:  
A

Other Related Program Elements:

	Prior Years	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013	To Complete	Total Prog
Proc Qty	64439	365	257	314	307	301	301	301		66585
Gross Cost	192.3	12.3	11.1	11.4	11.7	11.9	12.1	12.4		275.3
Less PY Adv Proc										
Plus CY Adv Proc										
Net Proc P1	192.3	12.3	11.1	11.4	11.7	11.9	12.1	12.4		275.3
Initial Spares										
Total Proc Cost	192.3	12.3	11.1	11.4	11.7	11.9	12.1	12.4		275.3
Flyaway U/C										
Weapon System Proc U/C										

**Description:**

The M67 Hand Grenade is used in close combat situations by dismounted soldiers. The grenade body is a 2.5-inch diameter steel sphere that is designed to burst into numerous fragments when detonated. The grenade body contains 5.4 ounces of high explosive, Composition B. Each grenade is fitted with an M213 fuze that initiates the explosive charge four to five seconds after release of safety lever. This item is Code A, approved for service use.

**Justification:**

This is a training standard item used in both training and combat. FY 2009 procurement supports annual training and builds a war reserve inventory in accordance with the Army's procurement goals.

TYPE CLASSIFICATION DATE: 1971



Exhibit P-5, Weapon AMMO Cost Analysis	Appropriation/Budget Activity/Serial No: Procurement of Ammunition, Army / 1 / Ammunition	P-1 Line Item Nomenclature: GRENADE HAND FRAG DELAY M67 (E32000)			Weapon System Type:	Date: February 2008				
AMMO Cost Elements	ID	FY 07			FY 08			FY 09		
	CD	Total Cost	Qty	Unit Cost	Total Cost	Qty	Unit Cost	Total Cost	Qty	Unit Cost
		\$000	x1000	\$	\$000	x1000	\$	\$000	x1000	\$
<b>HARDWARE</b>										
COMPLETE GRENADE		7014	365	19	9879	257	38	10183	314	32
*COMP B TYPE I GRADE A		405	164	2	286	116	2	326	164	2
<b>H/W SUBTOTAL</b>		<b>7419</b>			<b>10165</b>			<b>10509</b>		
<b>PRODUCTION SUPPORT COSTS</b>										
PRODUCTION ENGINEERING		2520			1250			1250		
QUALITY ASSURANCE		19			10			6		
Packaging, Crating & Handling		18								
<b>PROD SUPPORT SUBTOTAL</b>		<b>2557</b>			<b>1260</b>			<b>1256</b>		
<b>NON-RECURRING COSTS</b>										
GOVERNMENT FURNISHED MATERIAL		-405			-286			-326		
INSENSITIVE MUNITION DESIGN & TEST		1400								
SAFETY ENHANCEMENT		1328								
<b>NON-RECURRING SUBTOTAL</b>		<b>2323</b>			<b>-286</b>			<b>-326</b>		
<b>Total:</b>		<b>12299</b>		<b>34</b>	<b>11139</b>		<b>43</b>	<b>11439</b>		<b>36</b>

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

Date:  
February 2008

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 \$000	Specs Avail Now?	Date Revsn Avail	RFP Issue Date
<b>COMPLETE GRENADE</b>										
FY 2007	L3 - BT Fuze Lancaster, PA	C/OPTION	ROCK ISLAND, IL	Mar 07	Aug 08	365	19			
FY 2008	L3 - BT Fuze Lancaster, PA	C/OPTION	ROCK ISLAND, IL	Mar 08	Mar 09	257	38			
FY 2009	L3 - BT Fuze Lancaster, PA	C/OPTION	ROCK ISLAND, IL	Mar 09	Mar 10	314	32			
<b>*COMP B TYPE I GRADE A</b>										
FY 2007	STOCK ISSUE	N/A	N/A	N/A	N/A	164	2			
FY 2008	STOCK ISSUE	N/A	N/A			116	2			
FY 2009	STOCK ISSUE	N/A	N/A			141	2			

REMARKS: A four-year requirement contract with fixed price options was awarded to L3 - BT Fuze (formerly Bulova Technologies) in FY 2006.

<b>FY 08 / 09 BUDGET PRODUCTION SCHEDULE</b>	P-1 ITEM NOMENCLATURE GRENADE HAND FRAG DELAY M67 (E32000)	Date: February 2008
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COST ELEMENTS						Fiscal Year 08												Fiscal Year 09												Later
M F R	FY	S E R V	PROC QTY x1000	ACCEP PRIOR TO 1 OCT	BAL DUE AS OF 1 OCT	Calendar Year 08												Calendar Year 09												
						O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	

COMPLETE GRENADE																																																														
1	FY 07 P	A	725	0	725				28	30	30	40	40	50	50	50	65	30	48	48	48	45	65	58										0																												
1	FY 08	A	257	0	257							A												7	23	23	23	23	23	23	23	112																														
1	FY 09	A	314	0	314																			A								314																														
1	FY 07 P	AF	20	0	20				2										18													0																														
1	FY 08	AF	12	0	12							A																				6																														
1	FY 09	AF	14	0	14																			A								14																														
1	FY 07	MC	88	0	88														17	17	17	17	20									0																														
1	FY 08	MC	239	0	239							A																				107																														
1	FY 09	MC	95	0	95																			A								95																														
Total																																																														
<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td style="text-align: center;">O C T</td> <td style="text-align: center;">N O V</td> <td style="text-align: center;">D E C</td> <td style="text-align: center;">J A N</td> <td style="text-align: center;">F E B</td> <td style="text-align: center;">M A R</td> <td style="text-align: center;">A P R</td> <td style="text-align: center;">M A Y</td> <td style="text-align: center;">J U N</td> <td style="text-align: center;">J U L</td> <td style="text-align: center;">A U G</td> <td style="text-align: center;">S E P</td> <td style="text-align: center;">O C T</td> <td style="text-align: center;">N O V</td> <td style="text-align: center;">D E C</td> <td style="text-align: center;">J A N</td> <td style="text-align: center;">F E B</td> <td style="text-align: center;">M A R</td> <td style="text-align: center;">A P R</td> <td style="text-align: center;">M A Y</td> <td style="text-align: center;">J U N</td> <td style="text-align: center;">J U L</td> <td style="text-align: center;">A U G</td> <td style="text-align: center;">S E P</td> <td style="text-align: center;">46</td> <td style="text-align: center;">46</td> <td style="text-align: center;">46</td> <td style="text-align: center;">46</td> <td style="text-align: center;">46</td> <td style="text-align: center;">46</td> <td style="text-align: center;">46</td> <td style="text-align: center;">46</td> <td style="text-align: center;">648</td> </tr> </table>																														O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	46	46	46	46	46	46	46	46	648
O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	46	46	46	46	46	46	46	46	648																														

M F R	Name - Location	PRODUCTION RATES			Reached D+	MFR	ADMIN LEAD TIME		MFR After 1 Oct	TOTAL After 1 Oct	REMARKS
		MIN	1-8-5	MAX			Prior 1 Oct	After 1 Oct			
1	L3 - BT Fuze, Lancaster, PA	30	50	100		1	Initial	6	8	18	FY 2007 and prior deliveries are outside the funded delivery period (FDP). FY2008 is scheduled to be delivered within the FDP.
							Reorder	6	6	12	
							Initial				
							Reorder				
							Initial				
							Reorder				
							Initial				
							Reorder				

<b>FY 10 / 11 BUDGET PRODUCTION SCHEDULE</b>	P-1 ITEM NOMENCLATURE GRENADE HAND FRAG DELAY M67 (E32000)	Date: February 2008
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COST ELEMENTS						Fiscal Year 10													Fiscal Year 11													Later
M F R	FY	S E R V	PROC QTY x1000	ACCEP PRIOR TO 1 OCT	BAL DUE AS OF 1 OCT	Calendar Year 10													Calendar Year 11													
						O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P			

COMPLETE GRENADE																																
1	FY 07 P	A	725	725																												0
1	FY 08	A	257	145	112	23	22	22	22	23																					0	
1	FY 09	A	314	0	314						26	26	26	26	26	26	26	26	27	27	26	26									0	
1	FY 07 P	AF	20	20																											0	
1	FY 08	AF	12	6	6	1	1	1	1	2																					0	
1	FY 09	AF	14	0	14						1	1	1	1	1	1	1	2	1	1	2	1									0	
1	FY 07	MC	88	88																											0	
1	FY 08	MC	239	132	107	22	22	22	22	19																					0	
1	FY 09	MC	95	0	95						8	8	8	8	8	8	8	8	8	8	8	7	8								0	
Total			1764	1116	648	46	45	45	45	44	35	35	35	35	35	35	35	36	36	36	35	35										
						O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P			

M F R	Name - Location	PRODUCTION RATES			Reached D+	MFR	ADMIN LEAD TIME		MFR After 1 Oct	TOTAL After 1 Oct	REMARKS	
		MIN	1-8-5	MAX			Prior 1 Oct	After 1 Oct				
1	L3 - BT Fuze, Lancaster, PA	30	50	100		1	Initial	6	8	18	26	
							Reorder	6	6	12	18	
							Initial					
							Reorder					
							Initial					
							Reorder					
							Initial					
							Reorder					
							Initial					
							Reorder					

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

Date: February 2008

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

P-1 Item Nomenclature  
GRENADE HAND SMOKE GREEN M18 (E34001)

Program Elements for Code B Items:

Code:  
A

Other Related Program Elements:

	Prior Years	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013	To Complete	Total Prog
Proc Qty	25797	65	138	126	122	119	117	118		26602
Gross Cost	124.7	2.9	7.8	6.2	6.1	6.2	6.3	6.4		166.6
Less PY Adv Proc										
Plus CY Adv Proc										
Net Proc P1	124.7	2.9	7.8	6.2	6.1	6.2	6.3	6.4		166.6
Initial Spares										
Total Proc Cost	124.7	2.9	7.8	6.2	6.1	6.2	6.3	6.4		166.6
Flyaway U/C										
Weapon System Proc U/C										

**Description:**

The family of M18 smoke grenades are used for ground-to-air signaling, marking and indicating wind direction . This smoke hand grenade contains approximately one pound of smoke mixture. The smoke mixture is initiated by an M201 pyrotechnic delay-igniting fuze. After initiation, there is a 3-second delay before a dense smoke cloud of colored smoke is produced for about 45 seconds. This item is Code A, approved for service use.

**Justification:**

This is a training standard item; used in both training and combat. FY 2009 procurement supports annual training and builds a war reserve in accordance with the Army's procurement goals.

TYPE CLASSIFICATION DATE: 1943

<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 GREEN M18 (E34001)			Weapon System Type:		Date: February 2008	
<b>AMMO Cost Elements</b>		ID CD	<b>FY 07</b>			<b>FY 08</b>			<b>FY 09</b>		
			Total Cost	Qty	Unit Cost	Total Cost	Qty	Unit Cost	Total Cost	Qty	Unit Cost
			\$000	x1000	\$	\$000	x1000	\$	\$000	x1000	\$
<b>AMMUNITION HARDWARE</b>											
Load, Assemble, and Pack			2104	65	32	6313	138	46	4620	126	37
M201 Fuze			320	68	5	868	144	6	741	132	6
Top & Bottom Assembly			89	75	1	240	159	2	206	145	2
<b>SubTotal AMMO Hardware</b>			<b>2513</b>			<b>7421</b>			<b>5567</b>		
<b>Production Support Costs</b>											
Production Engineering			230			379			613		
Quality Assurance			5			8			8		
<b>SubTotal Prod. Support</b>			<b>235</b>			<b>387</b>			<b>621</b>		
<b>COST - Nonrecurring</b>											
Engineering Study			147								
<b>SubTotal COST - Nonrecurring</b>			<b>147</b>								
<b>Total:</b>			<b>2895</b>		<b>45</b>	<b>7808</b>		<b>57</b>	<b>6188</b>		<b>49</b>

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

Date:  
February 2008

Appropriation/Budget Activity/Serial No: Procurement of Ammunition, Army/ 1/ Ammunition	Weapon System Type:	P-1 Line Item Nomenclature: GRENADE HAND SMOKE GREEN M18 (E34001)								
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 2007	Pine Bluff Arsenal Pine Bluff, AR	SS/FP	Rock Island, IL	Mar 07	Feb 09	65	32			
FY 2008	Pine Bluff Arsenal Pine Bluff, AR	SS/FP	Rock Island, IL	Mar 08	Apr 09	138	46			
FY 2009	Pine Bluff Arsenal Pine Bluff, AR	SS/FP	Rock Island, IL	Mar 09	May 10	126	37			
<b>M201 Fuze</b>										
FY 2007	Martin Electronics Inc Perry, FL	C/OPT	Rock Island, IL	Mar 07	Nov 07	41	6			
FY 2007	Combined Systems Inc Jamestown, PA	C/OPT	Rock Island, IL	Mar 07	Nov 07	27	6			
FY 2008	Martin Electronics Inc Perry, FL	C/OPT	Rock Island, IL	Mar 08	Nov 08	86	6			
FY 2008	Combined Systems Inc Jamestown, PA	C/OPT	Rock Island, IL	Mar 08	Nov 08	58	6			
FY 2009	To Be Selected	C/FP	Rock Island, IL	May 09	Jan 10	79	6			
FY 2009	To Be Selected	C/FP	Rock Island, IL	May 09	Jan 10	53	6			
<b>Top &amp; Bottom Assembly</b>										
FY 2007	Tool Masters Inc Tuscumbia, AL	C/OPT	Rock Island, IL	Mar 07	Nov 07	75	1			
FY 2008	Tool Masters Inc Tuscumbia, AL	C/OPT	Rock Island, IL	Mar 08	Nov 08	159	2			
FY 2009	To Be Selected	C/FP	Rock Island, IL	May 09	Feb 10	145	2			

REMARKS: The M18 Green is produced on the same assembly line as the entire M18 colored smoke grenade family and the M83 smoke grenade. Leadtimes and production rates represent the entire family and are not concurrent. Date of first delivery represents the first delivery of any color. Actual production of this grenade may vary based on production sequence.





<b>FY 10 / 11 BUDGET PRODUCTION SCHEDULE</b>										P-1 ITEM NOMENCLATURE GRENADE HAND SMOKE GREEN M18 (E34001)										Date: February 2008			
--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	------------------------	--	--	--

COST ELEMENTS						Fiscal Year 10														Fiscal Year 11														Later
MFR	FY	S E R V	PROC QTY x1000	ACCEP PRIOR TO 1 OCT	BAL DUE AS OF 1 OCT	Calendar Year 10														Calendar Year 11														
						O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P					

Load, Assemble, and Pack																													
1	FY 07	A	65	65																							0		
1	FY 08	A	138	138																							0		
1	FY 09	A	126	0	126								14	50	49	13											0		
1	FY 07	AF	2	2																							0		
1	FY 08	AF	1	1																							0		
1	FY 08	MC	4	4																							0		
1	FY 08	NS	15	15																							0		
1	FY 09	NS	10	0	10									10													0		
Total			361	225	136								14	50	49	23													
						O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P

MFR	Name - Location	PRODUCTION RATES			Reached D+	MFR	ADMIN LEAD TIME		MFR After 1 Oct	TOTAL After 1 Oct	REMARKS	
		MIN	1-8-5	MAX			Prior 1 Oct	After 1 Oct				
1	Pine Bluff Arsenal, Pine Bluff, AR	60	120	288		1	Initial	6	8	18	26	The M18 Green is produced on the same assembly line as the entire M18 family of smoke grenades. Production rates and lead times apply for the family of smoke grenades. Delivery schedule assumes sequential production. Order of production by color can be changed based on need.
							Reorder	6	6	13	19	
							Initial					
							Reorder					
							Initial					
							Reorder					
							Initial					
							Reorder					

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

Date: February 2008

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

P-1 Item Nomenclature  
GRENADE HAND SMOKE YELLOW M18 (E34002)

Program Elements for Code B Items:

Code: A

Other Related Program Elements:

	Prior Years	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013	To Complete	Total Prog
Proc Qty	2596	86	104	82	86	138	137	138		3367
Gross Cost	53.2	3.7	6.1	4.0	4.2	6.7	6.8	7.0		91.7
Less PY Adv Proc										
Plus CY Adv Proc										
Net Proc P1	53.2	3.7	6.1	4.0	4.2	6.7	6.8	7.0		91.7
Initial Spares										
Total Proc Cost	53.2	3.7	6.1	4.0	4.2	6.7	6.8	7.0		91.7
Flyaway U/C										
Weapon System Proc U/C										

**Description:**

The family of M18 colored smoke grenades used for ground-to-air signaling, marking and indicating wind direction. This budget line is for yellow smoke. This smoke hand grenade contains approximately one pound of smoke mixture. The smoke mixture is initiated by an M201 pyrotechnic delay-igniting fuze. After initiation, there is a 3-second delay before a dense smoke cloud of colored smoke is produced for about 45 seconds. This item is Code A, approved for service use.

**Justification:**

This is a training standard item; used in both training and combat. FY2009 procurement supports annual training and build war reserve in accordance with the Army's procurement goals.

TYPE CLASSIFICATION DATE: 1943

<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 YELLOW M18 (E34002)			Weapon System Type:		Date: February 2008	
<b>AMMO Cost Elements</b>		ID CD	<b>FY 07</b>			<b>FY 08</b>			<b>FY 09</b>		
			Total Cost \$000	Qty x1000	Unit Cost \$	Total Cost \$000	Qty x1000	Unit Cost \$	Total Cost \$000	Qty x1000	Unit Cost \$
<b>AMMUNITION HARDWARE</b>											
Complete Grenade											
Load Assemble and Pack											
M201 Fuze											
Top & Body Assembly											
<b>SubTotal AMMO Hardware</b>											
<b>Production Support Costs</b>											
Production Engineering											
Quality Assurance											
<b>SubTotal Prod. Support</b>											
<b>Non-Recurring Cost</b>											
Smoke Dye - SPF Mitigation											
Mixing Study & Alternate Colors Eval											
<b>SubTotal COST - Nonrecurring</b>											
<b>Total:</b>											

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

Date:  
February 2008

Appropriation/Budget Activity/Serial No: Procurement of Ammunition, Army/ 1/ Ammunition	Weapon System Type:	P-1 Line Item Nomenclature: GRENADE HAND SMOKE YELLOW M18 (E34002)								
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 Grenade</b>										
<b>Load Assemble and Pack</b>										
FY 2007	Pine Bluff Arsenal Pine Bluff, AR	SS/Other	Rock Island, IL	Mar 07	Nov 08	86	30			
FY 2008	Pine Bluff Arsenal Pine Bluff, AR	SS/FP	Rock Island, IL	Mar 08	Jan 10	104	45			
FY 2009	Pine Bluff Arsenal Pine Bluff, AR	SS/FP	Rock Island, IL	Mar 09	Apr 10	82	36			
<b>M201 Fuze</b>										
FY 2007	Martin Electronics Inc Perry, FL	C/OPT	Rock Island, IL	Mar 07	Nov 07	54	6			
FY 2007	Combined Systems, Inc Jamestown, PA	C/OPT	Rock Island, IL	Mar 07	Nov 07	36	6			
FY 2008	Martin Electronics Inc Perry, FL	C/OPT	Rock Island, IL	Mar 08	Nov 08	65	6			
FY 2008	Combined Systems, Inc Jamestown, PA	C/OPT	Rock Island, IL	Mar 08	Nov 08	39	6			
FY 2009	To Be Selected	C/FP	Rock Island, IL	May 09	Jan 10	52	6			
FY 2009	To Be Selected	C/FP	Rock Island, IL	May 09	Jan 10	34	6			
<b>Top &amp; Body Assembly</b>										
FY 2007	Tool Masters Inc Tuscumbia, AL	C/OPT	Rock Island, IL	Mar 07	Nov 07	99	1			
FY 2008	Tool Masters Inc Tuscumbia, AL	C/OPT	Rock Island, IL	Mar 08	Nov 08	120	2			
FY 2009	To Be Selected	C/FP	Rock Island, IL	May 09	Jan 10	95	2			

REMARKS: Acquisition Strategy changed from plant procurement to breakout of selected components in FY 2007.  
 The M18 Yellow is produced on the same assembly line as the entire family of M18 colored smoke grenades and the M83 practice smoke grenade. Date of first delivery refers to the first delivery of this family of grenades. Actual delivery of this color may vary depending on the sequence of production.

Other = Cost Reimbursable



COST ELEMENTS					Fiscal Year 10													Fiscal Year 11													Later	
M F R	FY	S E R V	PROC QTY x1000	ACCEP PRIOR TO 1 OCT	BAL DUE AS OF 1 OCT	Calendar Year 10													Calendar Year 11													
						O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P			

Complete Grenade																															
1	FY 07	A	86	86																											0
1	FY 07	MC	30	30																											0

Load Assemble and Pack																																																					
1	FY 07	A	86	86																											0																						
1	FY 08	A	104	0	104				28	45	31																				0																						
1	FY 09	A	82	0	82							50	32																		0																						
1	FY 08	MC	1	0	1						1																				0																						
1	FY 08	NS	12	0	12						12																				0																						
Total			401	202	199				28	45	44	50	32																																								
<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">O C T</th><th style="text-align: center;">N O V</th><th style="text-align: center;">D E C</th><th style="text-align: center;">J A N</th><th style="text-align: center;">F E B</th><th style="text-align: center;">M A R</th><th style="text-align: center;">A P R</th><th style="text-align: center;">M A Y</th><th style="text-align: center;">J U N</th><th style="text-align: center;">J U L</th><th style="text-align: center;">A U G</th><th style="text-align: center;">S E P</th><th style="text-align: center;">O C T</th><th style="text-align: center;">N O V</th><th style="text-align: center;">D E C</th><th style="text-align: center;">J A N</th><th style="text-align: center;">F E B</th><th style="text-align: center;">M A R</th><th style="text-align: center;">A P R</th><th style="text-align: center;">M A Y</th><th style="text-align: center;">J U N</th><th style="text-align: center;">J U L</th><th style="text-align: center;">A U G</th><th style="text-align: center;">S E P</th> </tr> </table>																														O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P
O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P																														

M F R	Name - Location	PRODUCTION RATES			Reached D+	MFR	ADMIN LEAD TIME		MFR After 1 Oct	TOTAL After 1 Oct	REMARKS	
		MIN	1-8-5	MAX			Prior 1 Oct	After 1 Oct				
				1			Initial	Reorder				Initial
1	Pine Bluff Arsenal, Pine Bluff, AR	60	120	288		1	Initial	6	8	18	26	The M18 Yellow Smoke Grenade is produced on the same assembly line as the entire M18 family of smoke grenades. Production rates and lead times apply for the family of smoke grenades. Delivery schedule assumes sequential production. Order of production by color can be changed based on need.
							Reorder	6	6	13	19	
							Initial					
							Reorder					
							Initial					
							Reorder					
							Initial					
							Reorder					

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

Date: February 2008

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

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

Program Elements for Code B Items:

Code:  
A

Other Related Program Elements:

	Prior Years	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013	To Complete	Total Prog
Proc Qty	1271	192	192	177	176	176	177	177		2538
Gross Cost	46.2	8.5	8.9	9.2	9.3	9.5	9.7	9.9		111.2
Less PY Adv Proc										
Plus CY Adv Proc										
Net Proc P1	46.2	8.5	8.9	9.2	9.3	9.5	9.7	9.9		111.2
Initial Spares										
Total Proc Cost	46.2	8.5	8.9	9.2	9.3	9.5	9.7	9.9		111.2
Flyaway U/C										
Weapon System Proc U/C										

**Description:**

The M83 smoke hand grenade contains approximately one pound of an environmentally acceptable smoke mixture. The smoke mixture is initiated by a pyrotechnic delay-igniting fuze. After initiation, there is a 3-second delay before a dense smoke cloud of white smoke is produced to screen activities of small units. It can be used for ground-to-air signaling. The M83 grenade is deployed in a similar manner as the series of service smoke grenades. The individual soldier in squad, company, and battalion units uses it. This item is Code A, approved for service use.

**Justification:**

This is a training standard item used in both training and combat. FY 2009 procurement supports annual training and builds a war reserve inventory in accordance with the Army's procurement goals. The M83 is replacing the AN-M8 smoke grenade, which was found to be toxic.

TYPE CLASSIFICATION DATE: 1994

<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 M83 (E69300)			Weapon System Type:		Date: February 2008	
<b>AMMO Cost Elements</b>		ID CD	<b>FY 07</b>			<b>FY 08</b>			<b>FY 09</b>		
			Total Cost \$000	Qty x1000	Unit Cost \$	Total Cost \$000	Qty x1000	Unit Cost \$	Total Cost \$000	Qty x1000	Unit Cost \$
<b>HARDWARE</b>											
LOAD, ASSEMBLE & PACK			5766	192	30	6698	138	48	6907	177	39
FUZE, M201			944	200	5	793	144	6	1034	183	6
TOP & BODY ASSEMBLY			263	221	1	278	159	2	288	203	2
<b>H/W SUBTOTAL</b>			<b>6973</b>			<b>7769</b>			<b>8229</b>		
<b>PRODUCTION SUPPORT COSTS</b>											
PRODUCTION ENGINEERING			1142			1133			913		
QUALITY ASSURANCE			3			12			12		
<b>PROD SUPPORT SUBTOTAL</b>			<b>1145</b>			<b>1145</b>			<b>925</b>		
<b>NON-RECURRING COSTS</b>											
Eng Change Proposal- Particle Size			343								
<b>NON-RECURRING SUBTOTAL</b>			<b>343</b>								
<b>Total:</b>			<b>8461</b>		<b>62</b>	<b>8914</b>		<b>64</b>	<b>9154</b>		<b>52</b>



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

Date:  
February 2008

Appropriation/Budget Activity/Serial No: Procurement of Ammunition, Army/ 1/ Ammunition		Weapon System Type:	P-1 Line Item Nomenclature: GRENADE HAND SMOKE 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>LOAD, ASSEMBLE &amp; PACK</b>										
FY 2007	PINE BLUFF ARSENAL (PBA) PINE BLUF, AR	SS/CR	ROCK ISLAND, IL	May 07	May 08	192	30			
FY 2008	PINE BLUFF ARSENAL (PBA) PINE BLUF, AR	SS/FP	ROCK ISLAND, IL	Mar 08	Aug 09	138	48			
FY 2009	PINE BLUFF ARSENAL (PBA) PINE BLUF, AR	SS/FP	ROCK ISLAND, IL	Mar 09	Oct 10	177	39			
<b>FUZE, M201</b>										
FY 2007	Martin Electronics Inc. Perry, FL	C/OPT	ROCK ISLAND, IL	Mar 07	Nov 07	120	6			
FY 2007	Combined Systems Inc. Jamestown, PA	C/OPT	ROCK ISLAND, IL	Mar 07	Nov 07	80	6			
FY 2008	Martin Electronics Inc. Perry, FL	C/OPT	ROCK ISLAND, IL	Mar 08	Nov 08	80	6			
FY 2008	Combined Systems Inc. Jamestown, PA	C/OPT	ROCK ISLAND, IL	Mar 08	Nov 08	64	6			
FY 2009	To Be Selected	C/FP	ROCK ISLAND, IL	May 09	Jan 10	100	6			
FY 2009	To Be Selected	C/FP	ROCK ISLAND, IL	May 09	Jan 10	83	6			
<b>TOP &amp; BODY ASSEMBLY</b>										
FY 2007	Tool Masters Inc. Tuscumbia, AL	C/OPT/	ROCK ISLAND, IL	Mar 07	Nov 07	221	1			
FY 2008	Tool Masters Inc. Tuscumbia, AL	C/OPT	ROCK ISLAND, IL	Mar 08	Nov 08	159	2			
FY 2009	Tool Masters Inc. Tuscumbia, AL	C/FP	ROCK ISLAND, IL	May 09	Jan 10	203	2			

REMARKS: In FY2007 the acquisition strategy changed on major component from complete round to breakout of major component. This item is produced on the same assembly line as the M18 family of smoke grenades. Leadtimes and capacities are for the family and are not concurrent. Actual delivery of this grenade may vary based on production sequence. All items are produced within the funded delivery period.

<b>FY 08 / 09 BUDGET PRODUCTION SCHEDULE</b>	P-1 ITEM NOMENCLATURE GRENADE HAND SMOKE M83 (E69300)	Date: February 2008
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COST ELEMENTS						Fiscal Year 08												Fiscal Year 09												Later
M F R	FY	S E R V	PROC QTY x1000	ACCEP PRIOR TO 1 OCT	BAL DUE AS OF 1 OCT	Calendar Year 08												Calendar Year 09												
						O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	

LOAD, ASSEMBLE & PACK																																						
1	FY 07	A	192	0	192																															0		
1	FY 08	A	138	0	138					A																									16	45	77	
1	FY 09	A	177	0	177																																177	
Total			507		507																															16	45	254
						O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P									

M F R	Name - Location	PRODUCTION RATES			Reached D+	MFR	ADMIN LEAD TIME		MFR After 1 Oct	TOTAL After 1 Oct	REMARKS	
		MIN	1-8-5	MAX			Prior 1 Oct	After 1 Oct				
1	PINE BLUFF ARSENAL (PBA), PINE BLUF, AR	60	120	288		1	Initial	6	8	18	26	The M83 Smoke Hand Grenade is produced on the same assembly line as the M18 Family of smoke grenades. Lead times and production rates represent the family rates and lead times. Deliveries shown here are based on sequential production. All items are produced within the funded delivery period.
							Reorder	6	6	13	19	
							Initial					
							Reorder					
							Initial					
							Reorder					
							Initial					
							Reorder					



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

Date: February 2008

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 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013	To Complete	Total Prog
Proc Qty										
Gross Cost	749.6	180.0	180.6	89.4	132.7	91.2	94.0	94.5		1612.0
Less PY Adv Proc										
Plus CY Adv Proc										
Net Proc P1	749.6	180.0	180.6	89.4	132.7	91.2	94.0	94.5		1612.0
Initial Spares										
Total Proc Cost	749.6	180.0	180.6	89.4	132.7	91.2	94.0	94.5		1612.0
Flyaway U/C										
Weapon System Proc U/C										

**Description:**

This budget line includes Signals, All Types.

FY 2007 funding total includes \$163.9 Million received in GWOT supplemental.

FY 2008 funding total includes \$0 received in The Consolidated Appropriations Act, 2008 (P.L. 110-161).

FY 2008 funding totals do not include \$0 Million previously requested for current FY2008 GWOT requirements.

Actual amount for FY07 reflect changes since the publication of the P-1.

Exhibit P-5, Weapon AMMO Cost Analysis		Appropriation/Budget Activity/Serial No: Procurement of Ammunition, Army / 1 / Ammunition			P-1 Line Item Nomenclature: SIGNALS, ALL TYPES (E46900)			Weapon System Type:		Date: February 2008	
AMMO Cost Elements		ID CD	FY 07			FY 08			FY 09		
			Total Cost	Qty	Unit Cost	Total Cost	Qty	Unit Cost	Total Cost	Qty	Unit Cost
			\$000	x1000	\$	\$000	x1000	\$	\$000	x1000	\$
<b>SIGNALS AND ILLUMINATION</b>											
E46400 Sig Hnd Hld Red Star Clstr M158			649	5	130	1282	25	52	1222	22	55
E46500 Sig Hnd Hld White Star Clstr M159			759	5	152	1409	26	55	1257	20	62
E46700 Sig Hnd Hld Red Parachute M126A1						795	14	55	816	13	63
E46800 Sig Hnd Hld White Parachut M127A1			804	5	161	4906	96	51	5037	83	60
E47000 Sig Hnd Hld Grn Star Clstr M125A1			528	5	106	1653	30	56	1744	30	58
E48300 Sig Hnd Hld Green Parachut M195			66			261	4	61	269	5	59
E49200 FLARE SURFACE TRIP M49			1477	34	43	1702	39	44	1731	35	49
E62900 SMOKE POT PRACTICE M8			2936	1	2936	1978	1	1670	2035	2	1288
<b>SUBTOTAL SIGNAL &amp; ILLUMINATION</b>			<b>7219</b>			<b>13986</b>			<b>14111</b>		
<b>AIRCRAFT COUNTERMEASURES</b>											
E46988 FLARE ACFT CNTRMEASURE XM216			155583	1084	144						
E49100 FLARE ACFT CNTRMEASURE M206			489			10472	433	24	5743	208	28
E57600 CTG 25.4MM DECOY M839			1300	35	37	1311	39	34	550	8	68
E57700 IMPULSE CTG F/FLARES M796/BBU-35			3000	2516	1						
E88800 FLARE ACFT CNTRMEASURE M212			6479	36	180	76062	496	158	34632	210	164
E88900 FLARE, ACFT CNTRMEASURE , M211			5951	53	111	78727	739	108	34321	305	113
<b>SUBTOTAL AIRCRAFT COUNTERMEASURES</b>			<b>172802</b>			<b>166572</b>			<b>75246</b>		
<b>Total:</b>			<b>180021</b>			<b>180558</b>			<b>89357</b>		

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

Date: February 2008

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

P-1 Item Nomenclature  
Signal, Hand Held White Parachute Flare M127A1 (E46800)

Program Elements for Code B Items:

Code:  
A

Other Related Program Elements:

	Prior Years	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013	To Complete	Total Prog
Proc Qty	10504	5	96	83	89	87	88	88		11040
Gross Cost	120.0	0.8	4.9	5.0	5.1	5.2	5.3	5.5		151.9
Less PY Adv Proc										
Plus CY Adv Proc										
Net Proc P1	120.0	0.8	4.9	5.0	5.1	5.2	5.3	5.5		151.9
Initial Spares										
Total Proc Cost	120.0	0.8	4.9	5.0	5.1	5.2	5.3	5.5		151.9
Flyaway U/C										
Weapon System Proc U/C										

**Description:**

The family of hand held signals are used for location, signaling and battlefield illumination. It consists of a fin stabilized rocket in a hand held launch tube. When fired, the rocket reaches an average height of 750 feet and ignites a flare. The M127A1 payload is a white star flare, suspended by a parachute. The flare will produce 90,000 candlepower for 30 seconds. This item is code A, approved for service use.

**Justification:**

This is a training standard item used in both training and combat. FY 2009 procurement supports annual training and builds a war reserve inventory in accordance with the Army's procurement goals.

TYPE CLASSIFICATION: 1983 - Standard

<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: Signal, Hand Held White Parachute Flare M127A1 (E46800)			Weapon System Type:		Date: February 2008		
<b>AMMO Cost Elements</b>		ID CD	<b>FY 07</b>			<b>FY 08</b>			<b>FY 09</b>		
			Total Cost \$000	Qty x1000	Unit Cost \$	Total Cost \$000	Qty x1000	Unit Cost \$	Total Cost \$000	Qty x1000	Unit Cost \$
<b>AMMUNITION HARDWARE</b>											
Complete Round			202	5	40	4579	96	48	4144	83	50
M548 Metal Box			6		29	120	4	30	106	4	30
<b>SubTotal AMMO Hardware</b>			<b>208</b>			<b>4699</b>			<b>4250</b>		
<b>Production Support Costs</b>											
Production Engineering			596			205			588		
Quality Assurance						2			4		
<b>SubTotal Prod. Support</b>			<b>596</b>			<b>207</b>			<b>592</b>		
<b>COST - Nonrecurring</b>											
Engineering Change									195		
<b>SubTotal COST - Nonrecurring</b>									<b>195</b>		
<b>Total:</b>			<b>804</b>		<b>161</b>	<b>4906</b>		<b>51</b>	<b>5037</b>		<b>60</b>

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

Date:  
February 2008

Appropriation/Budget Activity/Serial No: Procurement of Ammunition, Army/ 1/ Ammunition		Weapon System Type:	P-1 Line Item Nomenclature: Signal, Hand Held White Parachute Flare M127A1 (E46800)							
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 2007	Security Signals Cordova, TN	C/OPT	Rock Island, IL	Jan 07	Feb 08	5	40			
FY 2008	Security Signals Cordova, TN	C/OPT	Rock Island, IL	Mar 08	Mar 09	96	48			
FY 2009	Security Signals Cordova, TN	C/OPT	Rock Island, IL	Mar 09	Mar 10	83	50			
<b>M548 Metal Box</b>										
FY 2007	CONCO Louisville, KY	C/OPT	Rock Island, IL	Mar 07	Sep 07		29			
FY 2008	CONCO Louisville, KY	C/OPT	Rock Island, IL	Mar 08	Sep 08	4	30			
FY 2009	To Be Selected	C/FP	Rock Island, IL	May 09	Nov 09	4	30			

REMARKS: A competitive, best-value system contract for the Family of Hand Held Signals was awarded in FY 2005. The contract has options through FY 2009.



<b>FY 08 / 09 BUDGET PRODUCTION SCHEDULE</b>	P-1 ITEM NOMENCLATURE Signal, Hand Held White Parachute Flare M127A1 (E46800)	Date: February 2008
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COST ELEMENTS						Fiscal Year 08													Fiscal Year 09													Later
M F R	FY	S E R V	PROC QTY x1000	ACCEP PRIOR TO 1 OCT	BAL DUE AS OF 1 OCT	Calendar Year 08													Calendar Year 09													
						O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P			

Complete Round																																				
1	FY 07	A	5	0	5																															0
1	FY 08	A	96	0	96																															39
1	FY 09	A	83	0	83																															83
1	FY 07	CG	11	0	11																															0
1	FY 08	CG	8	0	8																															1
1	FY 09	CG	11	0	11																															11
1	FY 07	MC	78	0	78																															0
1	FY 08	MC	22	0	22																															8
1	FY 09	MC	57	0	57																															57
Total			371		371																															199
						O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P							

M F R	Name - Location	PRODUCTION RATES			Reached D+	MFR	ADMIN LEAD TIME		MFR After 1 Oct	TOTAL After 1 Oct	REMARKS
		MIN	1-8-5	MAX			Prior 1 Oct	After 1 Oct			
1	Security Signals, Cordova, TN	5	32	64		1	6	8	18	26	This item is produced on the same assembly as other hand held signals.
							6	6	12	18	
							Initial				
							Reorder				
							Initial				
							Reorder				
							Initial				
							Reorder				

**FY 10 / 11 BUDGET PRODUCTION SCHEDULE**

P-1 ITEM NOMENCLATURE  
Signal, Hand Held White Parachute Flare M127A1 (E46800)

Date:  
February 2008

COST ELEMENTS					Fiscal Year 10												Fiscal Year 11												Later	
M F R	FY	S E R V	PROC QTY x1000	ACCEP PRIOR TO 1 OCT	BAL DUE AS OF 1 OCT	Calendar Year 10												Calendar Year 11												
						O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G		S E P

Complete Round																													
1	FY 07	A	5	5																									0
1	FY 08	A	96	57	39	8	8	8	8	7																			0
1	FY 09	A	83	0	83					7	7	7	7	7	7	7	7	7	7	7	7	7	6						0
1	FY 07	CG	11	11																									0
1	FY 08	CG	8	7	1	1																							0
1	FY 09	CG	11	0	11					1	1	1	1	1	1	1	1	1	1	1	1	1							0
1	FY 07	MC	78	78																									0
1	FY 08	MC	22	14	8	2	2	2	2																				0
1	FY 09	MC	57	0	57					5	5	5	5	5	5	5	5	5	5	5	4	4	4						0
Total			371	172	199	11	10	10	10	7	13	13	13	13	13	13	13	13	13	13	12	12	10						
						O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P

M F R	Name - Location	PRODUCTION RATES			Reached D+	MFR	ADMIN LEAD TIME		MFR After 1 Oct	TOTAL After 1 Oct	REMARKS
		MIN	1-8-5	MAX			Prior 1 Oct	After 1 Oct			
1	Security Signals, Cordova, TN	5	32	64		1	Initial	6	8	18	This item is produced on the same assembly as other hand held signals.
							Reorder	6	6	12	
							Initial				
							Reorder				
							Initial				
							Reorder				
							Initial				
							Reorder				

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

Date: February 2008

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

P-1 Item Nomenclature  
FLARE, AIRCRAFT, COUNTERMEASURE, XM216 (E46988)

Program Elements for Code B Items:

Code:  
B

Other Related Program Elements:

	Prior Years	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013	To Complete	Total Prog
Proc Qty		1084								1084
Gross Cost		155.6								155.6
Less PY Adv Proc										
Plus CY Adv Proc										
Net Proc P1		155.6								155.6
Initial Spares										
Total Proc Cost		155.6								155.6
Flyaway U/C										
Weapon System Proc U/C										

**Description:**

The XM216 Aircraft Countermeasure Flare is dispensed from aircraft to decoy heat-seeking missiles. It is used with ALE-47 dispensers on cargo planes and helicopters. This item is code B, not approved for general service use. It has been approved for use by Special Forces and other contingency operations.

**Justification:**

This is a training standard item used in both training and combat. Procurement supports operational requirements for the Global War on Terrorism.

Exhibit P-5, Weapon AMMO Cost Analysis	Appropriation/Budget Activity/Serial No: Procurement of Ammunition, Army / 1 / Ammunition	P-1 Line Item Nomenclature: FLARE, AIRCRAFT, COUNTERMEASURE, XM216 (E46988)			Weapon System Type:	Date: February 2008				
AMMO Cost Elements	ID	FY 07			FY 08			FY 09		
	CD	Total Cost	Qty	Unit Cost	Total Cost	Qty	Unit Cost	Total Cost	Qty	Unit Cost
		\$000	x1000	\$	\$000	x1000	\$	\$000	x1000	\$
<b>AMMUNITION HARDWARE</b>										
Complete Flare		150607	1084	139						
<b>SubTotal AMMO Hardware</b>		<b>150607</b>								
<b>Production Support Costs</b>										
Production Engineering		4646								
<b>SubTotal Prod. Support</b>		<b>4646</b>								
<b>COST - Nonrecurring</b>										
First Article Testing		330								
<b>SubTotal COST - Nonrecurring</b>		<b>330</b>								
<b>Total:</b>		<b>155583</b>		<b>144</b>						

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

Date:  
February 2008

Appropriation/Budget Activity/Serial No: Procurement of Ammunition, Army/ 1/ Ammunition		Weapon System Type:	P-1 Line Item Nomenclature: FLARE, AIRCRAFT, COUNTERMEASURE, XM216 (E46988)							
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 Flare</b> FY 2007	Israeli Military Industries Hafa, Israel	SS/FP	Picatinny, NJ	Jul 07	Oct 08	1084	139			

REMARKS:



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

Date: February 2008

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

P-1 Item Nomenclature  
FLARE A/C COUNTERMEASURES M206 (E49100)

Program Elements for Code B Items:

Code:  
A

Other Related Program Elements:

	Prior Years	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013	To Complete	Total Prog
Proc Qty	2550		433	208	208	204	200	196		3999
Gross Cost	44.0	0.5	10.5	5.7	5.8	5.8	5.8	5.8		84.1
Less PY Adv Proc										
Plus CY Adv Proc										
Net Proc P1	44.0	0.5	10.5	5.7	5.8	5.8	5.8	5.8		84.1
Initial Spares										
Total Proc Cost	44.0	0.5	10.5	5.7	5.8	5.8	5.8	5.8		84.1
Flyaway U/C										
Weapon System Proc U/C										

**Description:**

The M206 Infrared Countermeasure Flare is dispensed from aircraft in combination with M211 and M212 Infrared Countermeasures flares to decoy heat-seeking missiles. It is used with ALE-47 dispensers on cargo planes and helicopters. This item is code A, approved for service use.

**Justification:**

This is a training standard item used in both training and combat. FY 2009 procurement supports annual training and builds a war reserve in accordance with the Army's procurement goals.

TYPE CLASSIFICATION:1978 - Standard

<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: FLARE A/C COUNTERMEASURES M206 (E49100)			Weapon System Type:		Date: February 2008	
<b>AMMO Cost Elements</b>		ID CD	<b>FY 07</b>			<b>FY 08</b>			<b>FY 09</b>		
			Total Cost	Qty	Unit Cost	Total Cost	Qty	Unit Cost	Total Cost	Qty	Unit Cost
			\$000	x1000	\$	\$000	x1000	\$	\$000	x1000	\$
<b>HARDWARE</b>											
COMPLETE ROUND											
						9995	433	23	5458	208	26
<b>H/W SUBTOTAL</b>						<b>9995</b>			<b>5458</b>		
<b>PRODUCTION SUPPORT COSTS</b>											
PRODUCTION ENGINEERING											
			486			475			284		
QUALITY ASSURANCE											
			3			2			1		
<b>PROD SUPPORT SUBTOTAL</b>			<b>489</b>			<b>477</b>			<b>285</b>		
<b>Total:</b>			<b>489</b>			<b>10472</b>		<b>24</b>	<b>5743</b>		<b>28</b>



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

Date:  
February 2008

Appropriation/Budget Activity/Serial No: Procurement of Ammunition, Army/ 1/ Ammunition		Weapon System Type:	P-1 Line Item Nomenclature: FLARE A/C COUNTERMEASURES M206 (E49100)							
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 2008	ARMTEC TNO Milan, TN	C/Option	ROCK ISLAND, IL	Mar 08	Mar 09	238	23			
FY 2008	Chemring - Kilgore Toone, TN	C/Option	ROCK ISLAND, IL	Mar 08	Mar 09	195	23			
FY 2009	To Be Selected	C/FP	ROCK ISLAND, IL	May 09	Aug 10	114	26			
FY 2009	To Be Selected	C/FP	ROCK ISLAND, IL	May 09	Aug 10	94	26			

REMARKS: FY 2009 procurement will be a split buy.



<b>FY 10 / 11 BUDGET PRODUCTION SCHEDULE</b>	P-1 ITEM NOMENCLATURE FLARE A/C COUNTERMEASURES M206 (E49100)	Date: February 2008
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COST ELEMENTS						Fiscal Year 10												Fiscal Year 11												Later
M F R	FY	S E R V	PROC QTY x1000	ACCEP PRIOR TO 1 OCT	BAL DUE AS OF 1 OCT	Calendar Year 10												Calendar Year 11												
						O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	

COMPLETE ROUND																															
1	FY 08	A	238	140	98	20	20	20	20	18																					0
2	FY 08	A	195	140	55	20	20	15																							0
3	FY 09	A	114	0	114										5	8	12	13	13	13	13	13	13	12	12					0	
4	FY 09	A	94	0	94										5	8	10	10	10	10	10	10	10	10	11					0	
1	FY 07	AF	1680	1680																											0
2	FY 07	AF	1380	1380																											0
2	FY 08	AF	883	518	365	74	74	74	74	69																					0
1	FY 08	AF	1080	630	450	90	90	90	90	90																					0
3	FY 09	AF	1045	0	1045										45	72	116	116	116	116	116	116	116	116	116					0	
4	FY 09	AF	855	0	855										45	72	92	93	93	92	92	92	92	92						0	
Total			7564	4488	3076	204	204	199	184	177					100	160	230	232	232	231	231	231	230	231							
						O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P		

M F R	Name - Location	PRODUCTION RATES			Reached D+	MFR	ADMIN LEAD TIME		MFR After 1 Oct	TOTAL After 1 Oct	REMARKS	
		MIN	1-8-5	MAX			Prior 1 Oct	After 1 Oct				
		1	2	3			4					
1	ARMTEC TNO, Milan, TN	20	60	150		1	Initial	6	8	18	26	
							Reorder	6	6	12	18	
2	Chemring - Kilgore, Toone, TN	20	60	150		2	Initial	6	8	18	26	
3	To Be Selected	20	60	150			Reorder	6	6	12	18	
4	To Be Selected	20	60	150		3	Initial	6	8	15	23	
							Reorder	6	6	12	18	
						4	Initial	6	8	15	23	
							Reorder	8	6	12	18	
							Initial					
							Reorder					

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

Date: February 2008

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

P-1 Item Nomenclature  
FLARE, AIRCRAFT, COUNTERMEASURE, M212 (E88800)

Program Elements for Code B Items:

Code:  
A

Other Related Program Elements:

	Prior Years	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013	To Complete	Total Prog
Proc Qty	1356	36	496	210	338	199	201	197		3033
Gross Cost	183.3	6.5	76.1	34.6	55.9	34.4	35.6	35.6		462.0
Less PY Adv Proc										
Plus CY Adv Proc										
Net Proc P1	183.3	6.5	76.1	34.6	55.9	34.4	35.6	35.6		462.0
Initial Spares										
Total Proc Cost	183.3	6.5	76.1	34.6	55.9	34.4	35.6	35.6		462.0
Flyaway U/C										
Weapon System Proc U/C										

**Description:**

The M212 Aircraft Countermeasure Flare is dispensed from aircraft in combination with M206 and M211 Infrared Countermeasure flares, to decoy heat-seeking missiles. It is used with ALE-47 dispensers on cargo planes and helicopters. This item is code A, approved for service use.

**Justification:**

This is a training standard item used in both training and combat. FY 2009 procurement supports annual training and build a war reserve inventory in accordance with the Army's procurement goals.

TYPE CLASSIFICATION: November 2002 - Standard

<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: FLARE, AIRCRAFT, COUNTERMEASURE, M212 (E88800)			Weapon System Type:		Date: February 2008	
<b>AMMO Cost Elements</b>		ID CD	<b>FY 07</b>			<b>FY 08</b>			<b>FY 09</b>		
			Total Cost	Qty	Unit Cost	Total Cost	Qty	Unit Cost	Total Cost	Qty	Unit Cost
			\$000	x1000	\$	\$000	x1000	\$	\$000	x1000	\$
<b>Ammunition Hardware</b>											
Complete Flare			5640	36	151	75117	496	153	32807	210	156
<b>SubTotal AMMO Hardware</b>			<b>5640</b>			<b>75117</b>			<b>32807</b>		
<b>Production Support Costs</b>											
Production Engineering			825			920			1803		
Shipping			14			25			22		
<b>SubTotal Prod. Support</b>			<b>839</b>			<b>945</b>			<b>1825</b>		
<b>Total:</b>			<b>6479</b>		<b>180</b>	<b>76062</b>		<b>158</b>	<b>34632</b>		<b>164</b>

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

Date:  
February 2008

Appropriation/Budget Activity/Serial No: Procurement of Ammunition, Army/ 1/ Ammunition		Weapon System Type:	P-1 Line Item Nomenclature: FLARE, AIRCRAFT, COUNTERMEASURE, M212 (E88800)							
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 Flare</b>										
FY 2007	To Be Selected	C/FP	Picatinny, NJ	Feb 08	Aug 09	36	151			
FY 2008	To Be Selected	C/OPT	Picatinny, NJ	Mar 08	Sep 09	496	153			
FY 2009	To Be Selected	C/OPT	Picatinny, NJ	Mar 09	Jun 10	210	156			

REMARKS:

<b>FY 08 / 09 BUDGET PRODUCTION SCHEDULE</b>	P-1 ITEM NOMENCLATURE FLARE, AIRCRAFT, COUNTERMEASURE, M212 (E88800)	Date: February 2008
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COST ELEMENTS						Fiscal Year 08												Fiscal Year 09												Later
M F R	FY	S E R V	PROC QTY x1000	ACCEP PRIOR TO 1 OCT	BAL DUE AS OF 1 OCT	Calendar Year 08												Calendar Year 09												
						O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	

Complete Flare																													
1	FY 07 P	A	1232	914	318	53	53	53	53	53	53																	0	
2	FY 07	A	36	0	36					A																	36	0	
2	FY 08	A	496	0	496					A																	66	430	
2	FY 09	A	210	0	210																A							210	
1	FY 07	AF	53	0	53						4	4	4	4	4	4	4	4	5	5	5	5	5					0	
2	FY 08	AF	113	0	113					A																		113	
2	FY 09	AF	107	0	107																A							107	
Total			2247	914	1333	53	53	53	53	53	4	4	4	4	4	4	4	5	5	5	5	5				36	66	860	
						O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P

M F R	Name - Location	PRODUCTION RATES			Reached D+	MFR	ADMIN LEAD TIME		MFR After 1 Oct	TOTAL After 1 Oct	REMARKS	
		MIN	1-8-5	MAX			Prior 1 Oct	After 1 Oct				
1	ATK Thiokol, Brigham, UT	5	35	66		1	Initial	6	8	15	23	FY07 USAF buy will be an option to prior contract. Due to quantity ceiling on prior contract, FY07 Army buy will be on a new contract.
						1	Reorder	6	6	12	18	
2	To Be Selected	5	35	66		2	Initial	6	8	18	26	
						2	Reorder	6	6	12	18	
							Initial					
							Reorder					
							Initial					
							Reorder					

<b>FY 10 / 11 BUDGET PRODUCTION SCHEDULE</b>	P-1 ITEM NOMENCLATURE FLARE, AIRCRAFT, COUNTERMEASURE, M212 (E88800)	Date: February 2008
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COST ELEMENTS						Fiscal Year 10													Fiscal Year 11													Later
M F R	FY	S E R V	PROC QTY x1000	ACCEP PRIOR TO 1 OCT	BAL DUE AS OF 1 OCT	Calendar Year 10													Calendar Year 11													
						O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P			

Complete Flare																														
1	FY 07 P	A	1232	1232																										0
2	FY 07	A	36	36																										0
2	FY 08	A	496	66	430	66	66	66	66	66	66	34																		0
2	FY 09	A	210	0	210								34	42	40	40	27	27												0
1	FY 07	AF	53	53																										0
2	FY 08	AF	113	0	113					32	66	15																		0
2	FY 09	AF	107	0	107							17	24	26	26	7	7													0
Total			2247	1387	860	66	66	66	66	66	66	66	66	66	66	34	34													
						O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	

M F R	Name - Location	PRODUCTION RATES			Reached D+	MFR	ADMIN LEAD TIME		MFR After 1 Oct	TOTAL After 1 Oct	REMARKS		
		MIN	1-8-5	MAX			1	Initial				6	8
1	ATK Thiokol, Brigham, UT	5	35	66		1	Initial	6	8	15	23		
							Reorder	6	6	12	18		
2	To Be Selected	5	35	66		2	Initial	6	8	18	26		
							Reorder	6	6	12	18		
							Initial						
							Reorder						
							Initial						
							Reorder						
							Initial						
							Reorder						



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

Date: February 2008

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

P-1 Item Nomenclature  
FLARE, INFRARED, COUNTERMEASURE, M211 (E88900)

Program Elements for Code B Items:

Code:  
A

Other Related Program Elements:

	Prior Years	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013	To Complete	Total Prog
Proc Qty	1356	53	739	305	495	302	306	300		3856
Gross Cost	136.9	6.0	78.7	34.3	56.0	35.5	36.7	36.8		420.9
Less PY Adv Proc										
Plus CY Adv Proc										
Net Proc P1	136.9	6.0	78.7	34.3	56.0	35.5	36.7	36.8		420.9
Initial Spares										
Total Proc Cost	136.9	6.0	78.7	34.3	56.0	35.5	36.7	36.8		420.9
Flyaway U/C										
Weapon System Proc U/C										

**Description:**

The M211 Infrared Countermeasure Flare is dispensed from aircraft in combination with M206 and M212 Infrared Countermeasures flares to decoy heat-seeking missiles. It is used with ALE-47 dispensers on cargo planes and helicopters. This item is code A, approved for service use.

**Justification:**

This is a training standard item used in both training and combat. FY 2009 procurement supports annual training and builds a war reserve inventory in accordance with the Army's procurement goals.

TYPE CLASSIFICATION: November 2002 - Standard

<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: FLARE, INFRARED, COUNTERMEASURE, M211 (E88900)			Weapon System Type:		Date: February 2008	
<b>AMMO Cost Elements</b>		ID CD	<b>FY 07</b>			<b>FY 08</b>			<b>FY 09</b>		
			Total Cost	Qty	Unit Cost	Total Cost	Qty	Unit Cost	Total Cost	Qty	Unit Cost
			\$000	x1000	\$	\$000	x1000	\$	\$000	x1000	\$
<b>Ammunition Hardware</b>											
Complete Flare			5500	53	104	77133	739	105	32711	305	107
<b>SubTotal AMMO Hardware</b>			<b>5500</b>			<b>77133</b>			<b>32711</b>		
<b>Production Support Costs</b>											
Production Engineering			451			1594			1610		
<b>SubTotal Prod. Support</b>			<b>451</b>			<b>1594</b>			<b>1610</b>		
<b>Total:</b>			<b>5951</b>		<b>111</b>	<b>78727</b>		<b>108</b>	<b>34321</b>		<b>113</b>

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

Date:  
February 2008

Appropriation/Budget Activity/Serial No: Procurement of Ammunition, Army/ 1/ Ammunition		Weapon System Type:	P-1 Line Item Nomenclature: FLARE, INFRARED, COUNTERMEASURE, M211 (E88900)							
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 Flare</b>										
FY 2007	Alloy Surfaces Chester Twp., PA	SS/FP	Picatinny, NJ	Mar 08	Mar 09	53	104			
FY 2008	Alloy Surfaces Chester Twp., PA	SS/OPT	Picatinny, NJ	Mar 08	Jun 09	739	105			
FY 2009	Alloy Surfaces Chester Twp., PA	SS/OPT	Picatinny, NJ	Mar 09	Apr 10	305	107			

REMARKS:

<b>FY 08 / 09 BUDGET PRODUCTION SCHEDULE</b>	P-1 ITEM NOMENCLATURE FLARE, INFRARED, COUNTERMEASURE, M211 (E88900)	Date: February 2008
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COST ELEMENTS						Fiscal Year 08												Fiscal Year 09												Later
M F R	FY	S E R V	PROC QTY x1000	ACCEP PRIOR TO 1 OCT	BAL DUE AS OF 1 OCT	Calendar Year 08												Calendar Year 09												
						O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	

Complete Flare																																		
1	FY 07 P	A	1266	895	371	59	59	59	80	61	A																0							
1	FY 08	A	739	0	739						A															62	70	70	70	467				
1	FY 09	A	305	0	305																	A							305					
1	FY 07 P	AF	457	189	268	21	21	21			A														53	54	80	18		0				
1	FY 08	AF	93	0	93						A																		10	10	10	63		
1	FY 09	AF	111	0	111																	A										111		
			2971	1084	1887	80	80	80	80	61																80	80	80	80	80	80	80	80	946
						O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P					

M F R	Name - Location	PRODUCTION RATES			Reached D+	MFR	ADMIN LEAD TIME		MFR After 1 Oct	TOTAL After 1 Oct	REMARKS	
		MIN	1-8-5	MAX			Prior 1 Oct	After 1 Oct				
1	Alloy Surfaces, Chester Twp., PA	5	12	80		1	Initial	5	8	13	21	FY 2008 and FY 2009 deliveries maintain continuity of production.
							Reorder	5	6	9	15	
							Initial					
							Reorder					
							Initial					
							Reorder					
							Initial					
							Reorder					

<b>FY 10 / 11 BUDGET PRODUCTION SCHEDULE</b>	P-1 ITEM NOMENCLATURE FLARE, INFRARED, COUNTERMEASURE, M211 (E88900)	Date: February 2008
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COST ELEMENTS						Fiscal Year 10												Fiscal Year 11												Later
M F R	FY	S E R V	PROC QTY x1000	ACCEP PRIOR TO 1 OCT	BAL DUE AS OF 1 OCT	Calendar Year 10												Calendar Year 11												
						O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	

Complete Flare																														
1	FY 07 P	A	1266	1266																										0
1	FY 08	A	739	272	467	70	70	70	70	70	67	50																		0
1	FY 09	A	305	0	305							30	50	50	54	55	66													0
1	FY 07 P	AF	457	457																										0
1	FY 08	AF	93	30	63	10	10	10	10	10	13																			0
1	FY 09	AF	111	0	111								30	30	26	25														0
Total			2971	2025	946	80	80	80	80	80	80	80	80	80	80	66														
						O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	

M F R	Name - Location	PRODUCTION RATES			Reached D+	MFR	ADMIN LEAD TIME		MFR After 1 Oct	TOTAL After 1 Oct	REMARKS	
		MIN	1-8-5	MAX			1	Initial				After 1 Oct
1	Alloy Surfaces, Chester Twp., PA	5	12	80		1	5	8	13	21		
							5	6	9	15		

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

Date: February 2008

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 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013	To Complete	Total Prog
Proc Qty										
Gross Cost	279.7	25.5	21.5	20.0	19.0	19.3	19.7	20.0		424.6
Less PY Adv Proc										
Plus CY Adv Proc										
Net Proc P1	279.7	25.5	21.5	20.0	19.0	19.3	19.7	20.0		424.6
Initial Spares										
Total Proc Cost	279.7	25.5	21.5	20.0	19.0	19.3	19.7	20.0		424.6
Flyaway U/C										
Weapon System Proc U/C										

**Description:**

This budget line includes Simulators, All Types.

FY 2007 funding total includes \$12.0 Million received in GWOT supplemental.

FY 2008 funding total includes \$0 received in The Consolidated Appropriations Act, 2008 (P.L. 110-161).

FY 2008 funding totals do not include \$8.0 Million previously requested for current FY2008 GWOT requirements.

Actual amount for FY07 reflect changes since the publication of the P-1.

<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: February 2008	
<b>AMMO Cost Elements</b>		ID CD	<b>FY 07</b>			<b>FY 08</b>			<b>FY 09</b>		
			Total Cost	Qty	Unit Cost	Total Cost	Qty	Unit Cost	Total Cost	Qty	Unit Cost
			\$000	x1000	\$	\$000	x1000	\$	\$000	x1000	\$
E48400 SIMULATOR PROJ AIRBURST M74			2110	43	49	3451	138	25	3480	120	29
E49700 SIMULATOR PROJ GND BURST M115A2			7013	396	18	5038	179	18	4115	211	20
E49900 SIMULATOR BOOBY TRAP FLASH M117			4716	183	26	2558	99	26	1817	59	31
E5000 SIMULATOR BOOBY TRAP ILLUM M118			778	18	42	971	28	35	1017	25	40
E50100 SIMULATOR BOOBY TRAP WHIST M119			4021	157	26	1646	58	29	1691	57	30
E50200 SIMULATOR HAND GRENADE M116A1			1427	79	18	3725	247	15	3850	242	16
E88000 SIMULATOR TARGET HIT M25			416			284	5	57	290	2	170
E88119 SIMULATOR TARGET HIT M34			1550	596	3						
E88125 SIMULATOR TARGET HIT M35			1319	475	3						
F01000 SIMULATOR MAIN TANK GUN M30			1292	289	4	1360	234	6	1440	147	9
F01100 SIMULATOR DIR/INDIR FIRE CUE M31			868	55	16	2429	302	8	2327	256	9
<b>Total:</b>			<b>25510</b>			<b>21462</b>			<b>20027</b>		

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

Date: February 2008

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

P-1 Item Nomenclature  
SIMULATOR PROJ GND BURST M115A2 (E49700)

Program Elements for Code B Items:

Code:  
A

Other Related Program Elements:

	Prior Years	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013	To Complete	Total Prog
Proc Qty	11284	396	279	211	207	203	203	202		12985
Gross Cost	65.1	7.0	5.0	4.1	4.2	4.2	4.3	4.3		98.1
Less PY Adv Proc										
Plus CY Adv Proc										
Net Proc P1	65.1	7.0	5.0	4.1	4.2	4.2	4.3	4.3		98.1
Initial Spares										
Total Proc Cost	65.1	7.0	5.0	4.1	4.2	4.2	4.3	4.3		98.1
Flyaway U/C										
Weapon System Proc U/C										

**Description:**

The M115A2 Ground Burst Projectile Simulator is a hand-thrown pyrotechnic device that is used to provide realistic battlefield effects in training. It emits a whistle sound that imitates incoming artillery, followed by a flash and bang that simulates an artillery ground burst. This item is code A, approved for service use.

**Justification:**

This is a training unique item not used in combat. The FY 2009 procurement supports annual training and builds a depot level in accordance with the Army's procurement goals.

TYPE CLASSIFICATION DATE: 1962



<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: SIMULATOR PROJ GND BURST M115A2 (E49700)			Weapon System Type:		Date: February 2008		
<b>AMMO Cost Elements</b>		ID CD	<b>FY 07</b>			<b>FY 08</b>			<b>FY 09</b>		
			Total Cost \$000	Qty x1000	Unit Cost \$	Total Cost \$000	Qty x1000	Unit Cost \$	Total Cost \$000	Qty x1000	Unit Cost \$
<b>AMMUNITION HARDWARE</b>											
Complete Simulator			6706	396	17	4844	279	17	3878	211	18
<b>SubTotal AMMO Hardware</b>			<b>6706</b>			<b>4844</b>			<b>3878</b>		
<b>Production Support Costs</b>											
Production Engineering			300			189			231		
Quality Assurance			7			5			6		
<b>SubTotal Prod. Support</b>			<b>307</b>			<b>194</b>			<b>237</b>		
<b>Total:</b>			<b>7013</b>		<b>18</b>	<b>5038</b>		<b>18</b>	<b>4115</b>		<b>20</b>

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

Date:  
February 2008

Appropriation/Budget Activity/Serial No: Procurement of Ammunition, Army/ 1/ Ammunition		Weapon System Type:	P-1 Line Item Nomenclature: SIMULATOR PROJ GND BURST M115A2 (E49700)							
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 Simulator</b>										
FY 2007	Pyrotechnique by Gucci Radford, VA	C/OPT	Rock Island, IL	Dec 06	Dec 07	396	17			
FY 2008	Pyrotechnique by Gucci Radford, VA	C/OPT	Rock Island, IL	Mar 08	Mar 09	279	17			
FY 2009	Pyrotechnique by Gucci Radford, VA	C/OPT	Rock Island, IL	Mar 09	Mar 10	211	18			

REMARKS: Contract with Gucci was awarded in FY 2005 with priced options through FY 2009.

<b>FY 08 / 09 BUDGET PRODUCTION SCHEDULE</b>												P-1 ITEM NOMENCLATURE SIMULATOR PROJ GND BURST M115A2 (E49700)										Date: February 2008			
--	--	--	--	--	--	--	--	--	--	--	--	---	--	--	--	--	--	--	--	--	--	------------------------	--	--	--

COST ELEMENTS					Fiscal Year 08													Fiscal Year 09													Later				
M F R	FY	S E R V	PROC QTY x1000	ACCEP PRIOR TO 1 OCT	BAL DUE AS OF 1 OCT	Calendar Year 08													Calendar Year 09																
						O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P						
Complete Simulator																																			
1	FY 07	A	396	0	396				35	35	35	15	25	25	27	35	35	35	35	35	35	24							0						
1	FY 08	A	279	0	279							A														26	26	26	26	26	26	26	97		
1	FY 09	A	211	0	211																					A						211			
1	FY 07	AF	10	0	10							10																			0				
1	FY 08	AF	11	0	11							A														9	2					0			
1	FY 09	AF	11	0	11																					A						11			
1	FY 07	MC	38	0	38							10	10	10	8																0				
1	FY 08	MC	155	0	155							A															7	13	13	13	13	13	83		
1	FY 09	MC	164	0	164																					A						164			
1	FY 09	NS	3	0	3																					A						3			
Total					1278	1278				35	35	35	35	35	35	35	35	35	35	35	35	24						35	35	39	39	39	39	39	569
					O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P							

M F R	Name - Location	PRODUCTION RATES			Reached D+	MFR	ADMIN LEAD TIME		MFR After 1 Oct	TOTAL After 1 Oct	REMARKS
		MIN	1-8-5	MAX			Prior 1 Oct	After 1 Oct			
1	Pyrotechnique by Grucci, Radford, VA	5	30	70		1	Initial	6	8	18	This item is produced on the same assembly line as the M116 Hand Grenade Simulator. Production rate is combined.
							Reorder	6	6	12	
							Initial				
							Reorder				
							Initial				
							Reorder				
							Initial				
							Reorder				

<b>FY 10 / 11 BUDGET PRODUCTION SCHEDULE</b>										P-1 ITEM NOMENCLATURE SIMULATOR PROJ GND BURST M115A2 (E49700)										Date: February 2008	
--	--	--	--	--	--	--	--	--	--	---	--	--	--	--	--	--	--	--	--	------------------------	--

COST ELEMENTS					Fiscal Year 10										Fiscal Year 11										Later	
M F R	FY	S E R V	PROC QTY x1000	ACCEP PRIOR TO 1 OCT	BAL DUE AS OF 1 OCT	Calendar Year 10										Calendar Year 11										
						O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R		M A Y

Complete Simulator																																				
1	FY 07	A	396	396																														0		
1	FY 08	A	279	182	97	26	26	24	21																									0		
1	FY 09	A	211	0	211																													0		
1	FY 07	AF	10	10																														0		
1	FY 08	AF	11	11																														0		
1	FY 09	AF	11	0	11																													0		
1	FY 07	MC	38	38																														0		
1	FY 08	MC	155	72	83	13	13	13	14	30																								0		
1	FY 09	MC	164	0	164																													0		
1	FY 09	NS	3	0	3																													0		
Total																																				
						39	39	37	35	30	35	35	35	35	35	35	35	30	30	28	28	28														
						O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P							

M F R	Name - Location	PRODUCTION RATES			Reached D+	MFR	ADMIN LEAD TIME		MFR After 1 Oct	TOTAL After 1 Oct	REMARKS
		MIN	1-8-5	MAX			Prior 1 Oct	After 1 Oct			
1	Pyrotechnique by Grucci, Radford, VA	5	30	70		1	6	8	18	26	This item is produced on the same assembly line as the M116 Hand Grenade Simulator. Production rate is combined.
							6	6	12	18	
							Initial				
							Reorder				
							Initial				
							Reorder				
							Initial				
							Reorder				

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

Date: February 2008

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 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013	To Complete	Total Prog
Proc Qty										
Gross Cost	646.8	3.4	14.9	15.2	17.3	16.7	17.6	17.9	Continuing	Continuing
Less PY Adv Proc										
Plus CY Adv Proc										
Net Proc P1	646.8	3.4	14.9	15.2	17.3	16.7	17.6	17.9	Continuing	Continuing
Initial Spares										
Total Proc Cost	646.8	3.4	14.9	15.2	17.3	16.7	17.6	17.9	Continuing	Continuing
Flyaway U/C										
Weapon System Proc U/C									Continuing	Continuing

**Description:**

This budget line includes all Ammo Components/Support Items.

FY 2007 funding total includes \$0 received in GWOT supplemental.

FY 2008 funding total includes \$0 received in The Consolidated Appropriations Act, 2008 (P.L. 110-161).

FY 2008 funding totals do not include \$0 previously requested for current FY2008 GWOT.

Actual amount for FY07 reflect changes since the publication of the P-1.

**Justification:**

These components support FY 2009 Special Tests, First Article Test, Renovation of Field Stocks and Proof of Acceptance Tests and are used in both training and combat ammunition.

<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: February 2008				
<b>AMMO Cost Elements</b>	ID	<b>FY 07</b>			<b>FY 08</b>			<b>FY 09</b>		
	CD	Total Cost	Qty	Unit Cost	Total Cost	Qty	Unit Cost	Total Cost	Qty	Unit Cost
		\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000
COMPONENTS FOR SPECIAL TESTS		812			956			995		
COMPONENTS AND RENO OF FIELD STOCKS		1542			12973			13138		
WEAPONS COM/SPT OF PROOF/ACPT TEST		1039			1071			1095		
<b>Total:</b>		<b>3393</b>			<b>15000</b>			<b>15228</b>		

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

Date: February 2008

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

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

Program Elements for Code B Items:

Code:

Other Related Program Elements:

	Prior Years	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013	To Complete	Total Prog
Proc Qty										
Gross Cost	561.5	1.5	12.9	13.1	15.1	14.4	15.5	15.7		649.8
Less PY Adv Proc										
Plus CY Adv Proc										
Net Proc P1	561.5	1.5	12.9	13.1	15.1	14.4	15.5	15.7		649.8
Initial Spares										
Total Proc Cost	561.5	1.5	12.9	13.1	15.1	14.4	15.5	15.7		649.8
Flyaway U/C										
Weapon System Proc U/C										

**Description:**

Funds procure components and support the renovation of ammunition items currently in the Army inventory. Items support worldwide ammunition requirements in order to maintain the inventory in a serviceable status ready for issue to the troops.

**Justification:**

Renovation efforts are required to bring stocks that have entered an unserviceable/unsafe condition back to an issuable condition. The alternative is to fill requirements with new procurement and incur DEMIL costs to clear the inventory of unserviceable assets. It is much more cost effective to correct most stockpile deficiencies through renovation than through new procurement and the resulting DEMIL requirements.

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

Date: February 2008

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

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

Program Elements for Code B Items:

Code:

Other Related Program Elements:

	Prior Years	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013	To Complete	Total Prog
Proc Qty										
Gross Cost	175.5	70.7	25.1	21.2	6.5	5.5	5.7	5.8		316.0
Less PY Adv Proc										
Plus CY Adv Proc										
Net Proc P1	175.5	70.7	25.1	21.2	6.5	5.5	5.7	5.8		316.0
Initial Spares										
Total Proc Cost	175.5	70.7	25.1	21.2	6.5	5.5	5.7	5.8		316.0
Flyaway U/C										
Weapon System Proc U/C										

**Description:**

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

FY 2007 funding total includes \$55.5 Million received in GWOT supplemental.

FY 2008 funding total includes \$0 received in The Consolidated Appropriations Act, 2008 (P.L. 110-161).

FY 2008 funding totals do not include \$54.0 Million previously requested for current FY2008 GWOT 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: Non-Lethal Ammunition, All Types (E91901)			Weapon System Type:		Date: February 2008		
<b>AMMO Cost Elements</b>	ID	<b>FY 07</b>			<b>FY 08</b>			<b>FY 09</b>		
	CD	Total Cost	Qty	Unit Cost	Total Cost	Qty	Unit Cost	Total Cost	Qty	Unit Cost
		\$000	x1000	\$	\$000	x1000	\$	\$000	x1000	\$
Qty in thousands unless otherwise noted										
E32400 GRN, DISCHGR ANTI-RIOT IRR L96E1		8800	44	200						
E84900 GRENADE, STUN, M84		2023	16	128						
E85101 FUZE, HND GRN XM240 PRAC f/M102		922	7	124	2617	34	76	2960	38	78
E85115 BODY, HND GRN PRAC f/M102					254	2	107	260	1	182
E85125 GRN HAND PRAC M102 NON-LETH		1127	1	1						
E86400 CTG 12 GA NON-LETHAL M1012		1314	348	4						
E86500 CTG 12 GA CROWD DISPERSAL M1013		896	154	6						
E89000 CTG 40MM NON-LETHAL M1006		1832	191	10						
E90400 CTG 40MM CROWD DISPERSAL M1029		1132	63	18	101	5	22	104	4	22
E91800 NON LETHAL CAPABILITY SET (set)	set	52482	40	1312050	22098	8	2762250	17869	5	3574800
E92400 GRN, DISCHGR ANTI-RIOT PRAC L97E1		200	1	178						
<b>Total:</b>		<b>70728</b>			<b>25070</b>			<b>21193</b>		

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

Date: February 2008

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

P-1 Item Nomenclature  
NON LETHAL CAPABILITIES SET (E91800)

Program Elements for Code B Items:

Code:  
A

Other Related Program Elements:

	Prior Years	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013	To Complete	Total Prog
Proc Qty	194	40	8	5						247
Gross Cost	149.3	52.5	22.1	17.9	3.1	2.1	2.1	2.2		251.2
Less PY Adv Proc										
Plus CY Adv Proc										
Net Proc P1	149.3	52.5	22.1	17.9	3.1	2.1	2.1	2.2		251.2
Initial Spares										
Total Proc Cost	149.3	52.5	22.1	17.9	3.1	2.1	2.1	2.2		251.2
Flyaway U/C										
Weapon System Proc U/C										

**Description:**

The Non-Lethal Capabilities Set (NLCS) is used by soldiers in peacekeeping, civil disturbances, and other operations other than war, to provide the friendly force a non-lethal means to temporarily distract/disorient non-combatants. The set includes Soldier Protection Items, non-lethal munitions, training items and other items. Each set is designed to outfit one Brigade Combat Team (BCT). This item is Code A, approved for service use.

**Justification:**

This is a training standard item used in both training and combat. The FY 2009 procurement supports annual training and builds a war reserve in accordance with the Army's procurement goals.

TYPE CLASSIFICATION: All non-lethal munitions of the NLCS are type classified as separate systems.

Exhibit P-5, Weapon AMMO Cost Analysis		Appropriation/Budget Activity/Serial No: Procurement of Ammunition, Army / 1 / Ammunition		P-1 Line Item Nomenclature: NON LETHAL CAPABILITIES SET (E91800)			Weapon System Type:		Date: February 2008		
AMMO Cost Elements		ID CD	FY 07			FY 08			FY 09		
			Total Cost	Qty	Unit Cost	Total Cost	Qty	Unit Cost	Total Cost	Qty	Unit Cost
			\$000	Sets	\$	\$000	Sets	\$	\$000	Sets	\$
<b>HARDWARE</b>											
Riot Control Gear (BCT set)			34931	40	873000	8400	8	1050000	6681	5	1336200
Other Non-Lethal Ammunition			13092			8745			5628		
<b>Subtotal Hardware</b>			<b>48023</b>			<b>17145</b>			<b>12309</b>		
<b>PRODUCTION SUPPORT COSTS</b>											
Production Engineering			3878			3999			4550		
Integrated Logistic Support			423			238			280		
<b>Subtotal Production Support</b>			<b>4301</b>			<b>4237</b>			<b>4830</b>		
<b>NON-RECURRING COSTS</b>											
PVAB Test Support			158								
BCT Set Reconfiguration						716					
BCT Module Reconfiguration									730		
<b>Total Non-Recurring Costs</b>			<b>158</b>			<b>716</b>			<b>730</b>		
<b>Total:</b>			<b>52482</b>		<b>1312050</b>	<b>22098</b>		<b>2762250</b>	<b>17869</b>		<b>3573800</b>

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

Date:  
February 2008

Appropriation/Budget Activity/Serial No: Procurement of Ammunition, Army/ 1/ Ammunition		Weapon System Type:	P-1 Line Item Nomenclature: NON LETHAL CAPABILITIES SET (E91800)							
WBS Cost Elements:	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY Sets	Unit Cost \$000	Specs Avail Now?	Date Revsn Avail	RFP Issue Date
<b>Riot Control Gear (BCT set)</b>										
FY 2007	Aardvark Anzus, CA	SS/FP	Picatinny, NJ	Sep 07	Sep 08	40	873000			
FY 2008	Aardvark Anzus, CA	SS/OPT	Picatinny, NJ	Mar 08	May 09	8	1050000			
FY 2009	Aardvark Anzus, CA	SS/OPT	Picatinny, NJ	Mar 09	Dec 09	5	1336200			

REMARKS:





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

Date: February 2008

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

P-1 Item Nomenclature  
GRENADE, DISCHARGER, ANTI-RIOT, IRRITANT, XL96E1 (E92400)

Program Elements for Code B Items:

Code: A

Other Related Program Elements:

	Prior Years	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013	To Complete	Total Prog
Proc Qty		44								44
Gross Cost		8.8								8.8
Less PY Adv Proc										
Plus CY Adv Proc										
Net Proc P1		8.8								8.8
Initial Spares										
Total Proc Cost		8.8								8.8
Flyaway U/C										
Weapon System Proc U/C										

**Description:**

The L96A1 is a riot control grenade, fired from a 66mm grenade launcher. It dispenses an irritant. This item is Code A, approved for service use.

**Justification:**

This is a training standard item used in both training and combat/Operations Other Than War. FY2007 procured quantities for contingency forces in support of the Global War on Terrorism.

TYPE CLASSIFICATION: March 2000

Exhibit P-5, Weapon AMMO Cost Analysis	Appropriation/Budget Activity/Serial No: Procurement of Ammunition, Army / 1 / Ammunition	P-1 Line Item Nomenclature: GRENADE, DISCHARGER, ANTI-RIOT, IRRITANT, XL96E1 (E92400)			Weapon System Type:	Date: February 2008					
AMMO Cost Elements		ID CD	FY 07			FY 08			FY 09		
			Total Cost	Qty	Unit Cost	Total Cost	Qty	Unit Cost	Total Cost	Qty	Unit Cost
			\$000	x1000	\$	\$000	x1000	\$	\$000	x1000	\$
<b>AMMUNITION HARDWARE</b>											
Complete Round											
			8008	44	181						
<b>SubTotal AMMO Hardware</b>			<b>8008</b>								
<b>Production Support Costs</b>											
Production Engineering											
			792								
<b>Total:</b>			<b>8800</b>		<b>200</b>						



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

Date:  
February 2008

Appropriation/Budget Activity/Serial No: Procurement of Ammunition, Army/ 1/ Ammunition		Weapon System Type:	P-1 Line Item Nomenclature: GRENADE, DISCHARGER, ANTI-RIOT, IRRITANT, XL96E1 (E92400)							
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 2007	Chemring Group Draycott Derby, UK	SS/FP	Picatinny, NJ	Sep 07	Dec 08	44	181			

REMARKS:





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

Date: February 2008

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 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013	To Complete	Total Prog
Proc Qty										
Gross Cost	85.2	2.3	2.7	2.8	2.9	2.9	3.1	3.2		105.2
Less PY Adv Proc										
Plus CY Adv Proc										
Net Proc P1	85.2	2.3	2.7	2.8	2.9	2.9	3.1	3.2		105.2
Initial Spares										
Total Proc Cost	85.2	2.3	2.7	2.8	2.9	2.9	3.1	3.2		105.2
Flyaway U/C										
Weapon System Proc U/C										

**Description:**

Includes Cartridge Actuated Devices (CAD) and Propellant Actuated Devices (PAD) all types.

CAD/PAD are used in various escape and jettison systems on all types of Army aircraft. Required to support aircraft escape, safety, and jettison systems and mission essential needs. Items are subject to shelf and service life restrictions and, therefore, require replacement at specified intervals. FY2009 program is required to assure availability of replacement items when needed and avoid grounding aircraft or rendering aircraft partially mission capable.

FY 2007 funding total includes \$0 Million received in GWOT supplemental.

FY 2008 funding total includes \$0 received in The Consolidated Appropriations Act, 2008 (P.L. 110-161).

FY 2008 funding totals do not include \$0 Million previously requested for current FY2008 GWOT requirements.

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

Date: February 2008

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 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013	To Complete	Total Prog
Proc Qty										
Gross Cost	102.4	6.4	6.5	7.0	7.2	7.7	8.0	8.1		153.4
Less PY Adv Proc										
Plus CY Adv Proc										
Net Proc P1	102.4	6.4	6.5	7.0	7.2	7.7	8.0	8.1		153.4
Initial Spares										
Total Proc Cost	102.4	6.4	6.5	7.0	7.2	7.7	8.0	8.1		153.4
Flyaway U/C										
Weapon System Proc U/C										

**Description:**

This budget line includes Miscellaneous Ammunition Items Under \$5 million.

FY 2007 funding total includes \$0 received in GWOT supplemental.

FY 2008 funding total includes \$0 received in The Consolidated Appropriations Act, 2008 (P.L. 110-161).

FY 2008 funding totals do not include \$1.5 million previously requested for current FY 2008 GWOT requirements.

Exhibit P-5, Weapon AMMO Cost Analysis	Appropriation/Budget Activity/Serial No: Procurement of Ammunition, Army / 1 / Ammunition	P-1 Line Item Nomenclature: ITEMS LESS THAN \$5 MILLION (EA0055)					Weapon System Type:	Date: February 2008			
AMMO Cost Elements		ID	FY 07			FY 08			FY 09		
		CD	Total Cost	Qty	Unit Cost	Total Cost	Qty	Unit Cost	Total Cost	Qty	Unit Cost
			\$000	Units	\$000	\$000	Units	\$000	\$000	Units	\$000
E00100 CTG 10 GAUGE BLANK						61	69	0.88	66	98	0.67
E00200 CTG 12 GAUGE SHOTGUN 00 BUCKSHOT			48			154	351	0.44	166	351	0.47
E01700 CTG CAL .22 LR MATCH F/PISTOL			275	1430	0.19						
E03001 CTG .30 CAL BLANK			526	1538	0.34	842	2774	0.30	1158	2931	0.40
E76718 EOD ITEMS FOR PAN DISRUPTER			479			489			503		
E92100 CTG 12 GAUGE BREACHING ROUND			414	73	5.67	721	110	6.55	740	174	4.25
E99101 SPECIAL TRAINING AMMO			2579			1034			1042		
EA0600 AMMUNITION PROGRAM SUPPORT			1758			2867			2959		
EA0960 USAMTU FT BENNING			340			352			362		
<b>Total:</b>			<b>6419</b>			<b>6520</b>			<b>6996</b>		

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

Date: February 2008

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 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013	To Complete	Total Prog
Proc Qty										
Gross Cost	174.3	17.6	14.9	10.6	11.4	11.5	10.5	9.8		260.4
Less PY Adv Proc										
Plus CY Adv Proc										
Net Proc P1	174.3	17.6	14.9	10.6	11.4	11.5	10.5	9.8		260.4
Initial Spares										
Total Proc Cost	174.3	17.6	14.9	10.6	11.4	11.5	10.5	9.8		260.4
Flyaway U/C										
Weapon System Proc U/C										

**Description:**

Ammunition Peculiar Equipment (APE) is unique, low-density equipment items specifically designed, fabricated, tested, procured, and adopted for use in ammunition depot operations on conventional ammunition. The APE maintains a central source of standard, modern, safe, efficient, reliable and environmental acceptable equipment for ammunition operations. These operations involve maintenance, demilitarization, preservation, packaging, and surveillance functions on the ammunition item. As the National Inventory Control Point, the US Army Joint Munitions Command designs, fabricates, maintains and stores APE, to support US military worldwide ammunition operations. This equipment is different from production line plant equipment as 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. The new US/Republic of Korea Demilitarization Facility (DEFAC), to be built in Korea, will contain several standard APE items, along with new technology systems with the potential to become future standard APE equipment. The shipping and equipment installation will commence during FY 2008.

**Justification:**

The APE and replacement parts must be on-hand to perform any of the ammunition depot operations for conventional 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. APE is required to support Ammunition Stockpile Reliability Program (ASRP) surveillance program, equipment for worldwide maintenance and demilitarization, prepositioned ships and Government-Owned, Contractor-Operated (GOCO) plants as Government Furnished Equipment (GFE) for ammunition depot operations at those locations. The APE assets maintain and verify the quality of the ammunition stockpile, thereby saving the cost of purchasing new replacement ammunition. Should ammunition need to be demilitarized, APE efficiently performs this mission with an increased eye towards recycling, re-utilization and preserving the environment. APE at the DEFAC will minimize retrograde transportation costs and provide TNT to be re-utilized in the production of new ammunition in the US. The Mutual Logistics Support Agreement - Implementing Arrangement signed 27 Jun 2007 permits installation and prove-out of equipment. The APE at the DEFAC is required by provisions in the international memorandum of agreement signed 4 Sep 2003.

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

Date: February 2008

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 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013	To Complete	Total Prog
Proc Qty										
Gross Cost	803.7	13.9	12.0	12.6	13.1	11.9	12.0	12.2		891.4
Less PY Adv Proc										
Plus CY Adv Proc										
Net Proc P1	803.7	13.9	12.0	12.6	13.1	11.9	12.0	12.2		891.4
Initial Spares										
Total Proc Cost	803.7	13.9	12.0	12.6	13.1	11.9	12.0	12.2		891.4
Flyaway U/C										
Weapon System Proc U/C										

**Description:**

Transportation funds are required to support the distribution of Army ammunition end items from manufacturing plants or assembly points, e.g., Army Ammunition Plants (AAPs); Defense Contract Management Centers; or Procedure A and B Contractors to a CONUS depot, customer, or other point of first acceptance into the Army Supply System or to a Port of Embarkation destined for OCONUS customers.

FY 2007 funding total includes \$4.3 Million received in GWOT supplemental.

FY 2008 funding total includes \$0 received in The Consolidated Appropriations Act, 2008 (P.L. 110-161).

FY 2008 funding totals do not include \$0 previously requested for current FY2008 GWOT

**Justification:**

FY 2009 funds directly support training and readiness requirements of soldiers in the field (CONUS and OCONUS) to include major OCONUS programs such as Preposition War Reserves (PPWR) for Europe and Pacific Theaters, training for Europe and Pacific Theaters, War Reserve Allies (WRSA) for Korea/Thailand and Southwest Asia Sustainment Requirements.

FY2007 funding total includes \$4.3 million received in GWOT supplemental.



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

Date: February 2008

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 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013	To Complete	Total Prog
Proc Qty										
Gross Cost	130.1	52.3		0.1						182.5
Less PY Adv Proc										
Plus CY Adv Proc										
Net Proc P1	130.1	52.3		0.1						182.5
Initial Spares										
Total Proc Cost	130.1	52.3		0.1						182.5
Flyaway U/C										
Weapon System Proc U/C										

**Description:**

Funding will pay the contract termination cost and operational losses to ensure the solvency of the Conventional Ammunition Working Capital Fund (CAWCF) and contract termination cost at ammunition plants.

FY 2007 funding total includes \$0 received in GWOT supplemental.

FY 2008 funding total includes \$0 received in The Consolidated Appropriations Act, 2008 (P.L. 110-161).

FY 2008 funding totals do not include \$0 previously requested for current FY 2008 GWOT.

**Justification:**

FY 2009 funding is required to pay contract termination cost, e.g., unfunded pension liabilities, severance pay, and inventory at ammunition plants, and other claims approved by the Army Contract Review Board (ACRB).

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

Date: February 2008

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 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013	To Complete	Total Prog
Proc Qty										
Gross Cost	4331.9	172.7	160.8	187.4	90.9	83.2	84.2	82.3		5193.5
Less PY Adv Proc										
Plus CY Adv Proc										
Net Proc P1	4331.9	172.7	160.8	187.4	90.9	83.2	84.2	82.3		5193.5
Initial Spares										
Total Proc Cost	4331.9	172.7	160.8	187.4	90.9	83.2	84.2	82.3		5193.5
Flyaway U/C										
Weapon System Proc U/C										

**Description:**

This budget line includes funding for correction of environmental deficiencies at existing facilities and replacement, upgrade and modernization of obsolete or worn production equipment and/or plant infrastructure.

**Justification:**

FY 2009 procurement supports the establishment, augmentation, and improvement of production capability for ammunition programs. The necessary Industrial Facilities efforts include modernization of key electrical systems, production control, computer systems and plant infrastructure. Industrial Facilities funds also support the correction of environmental problems which, if left uncorrected, would result in costly fines, penalties, and potential plant closure.

FY 2008 funding totals do not include \$200.6M previously requested for current FY 2008 GWOT requirements.

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

Date: February 2008

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 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013	To Complete	Total Prog
Proc Qty										
Gross Cost	4331.9	172.7	160.8	187.4	90.9	83.2	84.2	82.3		5193.5
Less PY Adv Proc										
Plus CY Adv Proc										
Net Proc P1	4331.9	172.7	160.8	187.4	90.9	83.2	84.2	82.3		5193.5
Initial Spares										
Total Proc Cost	4331.9	172.7	160.8	187.4	90.9	83.2	84.2	82.3		5193.5
Flyaway U/C										
Weapon System Proc U/C										

**Description:**

This budget line includes funding for correction of environmental deficiencies at existing facilities and replacement, upgrade and modernization of obsolete or worn production equipment and/or plant infrastructure.

**Justification:**

FY 2009 procurement supports the establishment, augmentation, and improvement of production capability for ammunition programs. The necessary Industrial Facilities efforts include modernization of key electrical systems, production control, computer systems and plant infrastructure. Industrial Facilities funds also support the correction of environmental problems which, if left uncorrected, would result in costly fines, penalties, and potential plant closure.

<b>Exhibit P-40C, Budget Item Justification Sheet</b>		Date: February 2008
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:
<b>Title:</b>		
<b>Comment:</b>		

# Exhibit P-40C, Budget Item Justification Sheet

Date: February 2008

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 2007</u>	<u>FY 2008</u>	<u>FY 2009</u>
<b><u>Production Support</u></b>					
Holston Army Ammunition Plant	Explosive Manufacturing Alternatives Team (XMAT) Facilities Initiative	50X1000	14233	10000	5000
Holston Army Ammunition Plant	Modernize High Melt Explosive/Research Department Explosive Blending Fac	5082653		1607	
Holston Army Ammunition Plant	Thermobaric Explosive Manufacturing	50X3012	1350	2400	
Holston Army Ammunition Plant	Modernization of Acetic Acid Facility	5083239		1600	
Holston Army Ammunition Plant	Insensitive Munitions (IM) Cast Explosives Production	5093473			5948
Holston Army Ammunition Plant	Material Handling Transporters	5083486		1105	
Holston Army Ammunition Plant	Modernize/Consolidate Acid Facilities	5093964			12000
Holston Army Ammunition Plant	Modernize Nitric Acid/Ammonium Nitrate Production	5083975		2143	
Iowa Army Ammunition Plant	Emergency Lighting, Lines 2 and 3A	5093380			886
Iowa Army Ammunition Plant	Insensitive Munitions Flexible Load, Assemble, Pack Artillery Manufacturing	5073809	3250		
Iowa Army Ammunition Plant	Production Support Equipment Replacement	5095333			1560
Kansas Army Ammunition Plant	Flexible Load, Assemble and Pack Modern Munitions Enterprise	5073357	3600		
Lake City Army Ammunition Plant	Replace Pneumatic Boiler Controls, Building 15	5082693		424	
Lake City Army Ammunition Plant	Air Conditioning Unit (ACU), Building 38 (Explosives Area)	5092729			581
Lake City Army Ammunition Plant	Small Caliber Modernization Production Line Upgrades	50X3356	46640	52630	49390
Lake City Army Ammunition Plant	Install Deluge System, Building 2	5093425			1246
Lake City Army Ammunition Plant	Gas Distribution Upgrades	5083433		2624	
Lake City Army Ammunition Plant	Electrical Buss Replacement, Building Substations (Plantwide)	5093485			1654
Lake City Army Ammunition Plant	Compressor Replacement, Building 1	5093930			2788
Lake City Army Ammunition Plant	Compressor Dryer Replacement, Buildings 1 and 2	5093931			642
Lake City Army Ammunition Plant	Replace Fire Water Lines to Warehouses	5093977			1589

# Exhibit P-40C, Budget Item Justification Sheet

Date: February 2008

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 2007</u>	<u>FY 2008</u>	<u>FY 2009</u>
Lone Star Army Ammunition Plant	Load, Assemble and Pack Modernization	5073202	2900		
Milan Army Ammunition Plant	Insensitive Munitions High-Shear Mixing System	5073474	3250		
Milan Army Ammunition Plant	Electrical Distribution - Lines B, D, I, and X	5093807			3919
Milan Army Ammunition Plant	Fire Alarm & Reporting System - Occupational Safety & Health Administration	5073939	3500		
Milan Army Ammunition Plant	Sprinkler System on Lines B, D and I (OSHA Requirement)	5093944			946
Milan Army Ammunition Plant	Deluge System Upgrades - Lines B, D, and I	5093946			2625
Radford Army Ammunition Plant	Solvent Recovery Construction, New Still House and Tanks	50X2650		7681	8136
Radford Army Ammunition Plant	Modernize Nitrocellulose (NC) Facility	5092736			18000
Radford Army Ammunition Plant	Design of Acid Production for Small Arms Propellant	5073120	17381		
Radford Army Ammunition Plant	Radford Operations	50X3407	20730	20730	20730
Radford Army Ammunition Plant	Modernize Nitroglycerin (NG) Facility	5093449			3282
Radford Army Ammunition Plant	Replace Fire Alarms	5083476		2517	
Radford Army Ammunition Plant	Replace Production and Inventory Management Control (PRIMAC) System	5093483			7164
Scranton Army Ammunition Plant	20,000 Pound-Per-Hour Induction Heater	5082652		3200	
Scranton Army Ammunition Plant	Cooling Tower Forge Shop	5082676		1547	
Scranton Army Ammunition Plant	Rebuild Bliss I Forging Press System	5093418			4393
Scranton Army Ammunition Plant	Rebuild Bliss III Forging Press System	50X3419	4300	3199	
Scranton Army Ammunition Plant	Modernize M107 Finish Turn Line	5083919		3244	
Scranton Army Ammunition Plant	Modernize Bliss IV Nosing Press	5093920			5749
Scranton Army Ammunition Plant	Production Shop Roof Replacement	5083921		4993	
Various Army Ammunition Plants	Engineering in Support of Industrial Facilities	50X3046	1971	2302	5359
Yuma Proving Ground/Aberdeen Test Centerer	Production Support Equipment Replacement	50X5060	1028	1045	1073
<b>Subtotal - Production</b>			<b>124,133</b>	<b>124,991</b>	<b>164,660</b>

# Exhibit P-40C, Budget Item Justification Sheet

Date: February 2008

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 2007</u>	<u>FY 2008</u>	<u>FY 2009</u>
<u>Environmental</u>					
Holston Army Ammunition Plant	Modernize/Expand Insensitive Munitions	5082658		1658	
Holston Army Ammunition Plant	Production Building Apron and Dike Rehabilitation Program	5083220		2331	
Holston Army Ammunition Plant	HSAAP Steam Plant NESHAP MACT	5073960	4100		
Holston Army Ammunition Plant	Industrial Waste Treatment Plant for Research Department Explosive (RDX)	50X3974		5000	15000
Iowa Army Ammunition Plant	Requirements Supporting Dispute Resolution	5083002		2000	
Iowa Army Ammunition Plant	IAAAP Steam Plant NESHAP MACT	5073436	15506		
Lake City Army Ammunition Plant	Industrial Wastewater Treatment Upgrade	50X2670		530	5077
Lake City Army Ammunition Plant	Industrial Waste Pipeline Upgrade	5093157			2651
Milan Army Ammunition Plant	Water Tower Environmental Requirements	5083941		1306	
Radford Army Ammunition Plant	Nitrocellulose (NC) Hazardous Waste Tank Fixes	50X2896	640		
Radford Army Ammunition Plant	Upgrade Decontamination Oven/Contaminated Waste Processor	5082967		8570	
Radford Army Ammunition Plant	Rebuild C-Line Solvent Recovery System Continuation	50X3006	1500	8000	
Radford Army Ammunition Plant	Emission Controls for Incinerator	5083452		3214	
Radford Army Ammunition Plant	Ammonia Oxidation Plant/Nitric Acid Concentrator	5083820		3214	
Radford Army Ammunition Plant	RFAAP Steam Plant NESHAP MACT	5073915	26856		
	<b>Subtotal - Environmental</b>		<b>48,602</b>	<b>35,823</b>	<b>22,728</b>
<b>Total Industrial Facilities</b>			<b>172,735</b>	<b>160,814</b>	<b>187,388</b>

**Exhibit P-25, Production Support and Industrial Facilities Cost Analysis (Dollars in Thousands)**

1. Date: February 2008

2. Project Title/Type  
Explosive Manufacturing Alternatives Team (XMAT) Facilities Initiative

3. End Item Supported Model  
Research Department Explosive (RDX)/High Melt Explosive (HMX)

4. Project Number:  
50X1000

5. Annual Capacity Before (1-8-5)  
N/A

6. Annual Capacity After (1-8-5):  
N/A

Element of Cost	FY 07	FY 08	FY 09	H. Facility						
<b>A. Construction Cost</b>				1. Name: <u>Holston Army Ammunition Plant</u>						
<b>B. Equipment Cost*</b> (Individual equipment cost should be specified for all equipment costing more than \$0.5 Million)				2. Location: <u>Kingsport, Tennessee</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
<b>Subtotal Costs</b>				1000	XMAT Facilities Initiatives	2006	10.507			
<b>C. Equipment Installation Cost</b>				<b>J. Principal Milestones</b>						
<b>D. Contractor Support Cost</b>				1. Concept Design Complete: <u>Not Applicable</u>						
<b>E. Corps of Engineers Support Cost</b>				2. Final Design Complete: <u>Not Applicable</u>						
<b>F. Other In-House Support Cost</b>	14233	10000	5000	3. Initial/Final Project Award: <u>Not Applicable</u>						
<b>Total Facility Project Cost</b>	14233	10000	5000	4. Construction Complete: <u>Not Applicable</u>						
<b>G. Other Costs</b>				5. Equipment Installation Complete: <u>Not Applicable</u>						
1. Facility Prove-out Cost				6. Prove Out Begins: <u>Not Applicable</u>						
2. Material Construction Appn.				7. Prove Out Complete: <u>Not Applicable</u>						

**Narrative Explanation:**

FY 2009 procurement supports operational costs at Holston Army Ammunition Plant (AAP). Operational costs include property management efforts such as maintenance, facilitization, environmental, safety, security, traffic management, readiness/reactivation, and support of the on-site Government staff.



**Exhibit P-25, Production Support and Industrial Facilities Cost Analysis (Dollars in Thousands)**

1. Date: February 2008

2. Project Title/Type  
Insensitive Munitions (IM) Cast Explosives Production

3. End Item Supported Model  
Research Department Explosive (RDX)/High Melt Explosive (HMX)

4. Project Number:  
5093473

5. Annual Capacity Before (1-8-5)  
N/A

6. Annual Capacity After (1-8-5):  
N/A

Element of Cost	FY 07	FY 08	FY 09	H. Facility														
<b>A. Construction Cost</b>			1335	1. Name: <u>Holston Army Ammunition Plant</u>														
<b>B. Equipment Cost*</b> (Individual equipment cost should be specified for all equipment costing more than \$0.5 Million)			3361	2. Location: <u>Kingsport, Tennessee</u>														
1.				3. Type (GOGO, GOCO, COCO): <u>GOCO</u>														
2.				<b>I. Related Projects</b>														
3.				<table border="1"> <thead> <tr> <th>Project Number</th> <th>Title</th> <th>FY &amp; Appn</th> <th>Value (\$ Mil)</th> <th>Facing</th> <th>Start Date</th> <th>Compl Date</th> </tr> </thead> <tbody> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table>	Project Number	Title	FY & Appn	Value (\$ Mil)	Facing	Start Date	Compl Date							
Project Number	Title	FY & Appn	Value (\$ Mil)	Facing	Start Date	Compl Date												
<b>Subtotal Costs</b>			3361															
<b>C. Equipment Installation Cost</b>			1083															
<b>D. Contractor Support Cost</b>			169															
<b>E. Corps of Engineers Support Cost</b>																		
<b>F. Other In-House Support Cost</b>																		
<b>Total Facility Project Cost</b>			5948	<b>J. Principal Milestones</b>														
<b>G. Other Costs</b>				<b>Month &amp; Year</b>														
1. Facility Prove-out Cost				1. Concept Design Complete: <u>Not Applicable</u>														
2. Material Construction Appn.				2. Final Design Complete: <u>Jan 2009</u>														
				3. Initial/Final Project Award: <u>Apr 2008/Apr 2008</u>														
				4. Construction Complete: <u>Apr 2010</u>														
				5. Equipment Installation Complete: <u>Apr 2010</u>														
				6. Prove Out Begins: <u>May 2010</u>														
				7. Prove Out Complete: <u>Jul 2010</u>														

**Narrative Explanation:**

FY 2009 procurement supports this requirement to modernize the melt cast production facilities. The current melt cast facilities are 1940's vintage and designed for Composition B (Comp B) production. Many melt cast products exist today including Insensitive Munitions (IM) explosives being evaluated, qualified, and fielded to provide safer munitions to the United State's war fighter. Without the modernization of the current antiquated melt cast facilities at Holston Army Ammunition Plant, program requirements will not be met.

**Exhibit P-25, Production Support and Industrial Facilities Cost Analysis (Dollars in Thousands)**

1. Date: February 2008

2. Project Title/Type  
Modernize/Consolidate Acid Facilities

3. End Item Supported Model  
Research Development Explosive/High Melt Explosive (RDX/HMX)

4. Project Number:  
5093964

5. Annual Capacity Before (1-8-5)  
N/A

6. Annual Capacity After (1-8-5):  
N/A

Element of Cost	FY 07	FY 08	FY 09	H. Facility																			
<b>A. Construction Cost</b> <b>B. Equipment Cost*</b> (Individual equipment cost should be specified for all equipment costing more than \$0.5 Million) 1. 2. 3. <b>Subtotal Costs</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-House Support Cost</b> <b>Total Facility Project Cost</b> <b>G. Other Costs</b> 1. Facility Prove-out Cost 2. Material Construction Appn.			12000 12000	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> <table border="1"> <thead> <tr> <th>Project Number</th> <th>Title</th> <th>FY &amp; Appn</th> <th>Value (\$ Mil)</th> <th>Facing</th> <th>Start Date</th> <th>Compl Date</th> </tr> </thead> <tbody> <tr> <td>5063964</td> <td>Modernize/Consolidate Acid Facilities</td> <td>2006</td> <td>0.464</td> <td></td> <td></td> <td></td> </tr> </tbody> </table>				Project Number	Title	FY & Appn	Value (\$ Mil)	Facing	Start Date	Compl Date	5063964	Modernize/Consolidate Acid Facilities	2006	0.464					
Project Number	Title	FY & Appn	Value (\$ Mil)	Facing	Start Date	Compl Date																	
5063964	Modernize/Consolidate Acid Facilities	2006	0.464																				
				<b>J. Principal Milestones</b> <table border="1"> <thead> <tr> <th></th> <th>Month &amp; Year</th> </tr> </thead> <tbody> <tr> <td>1. Concept Design Complete:</td> <td><u>Apr 2008</u></td> </tr> <tr> <td>2. Final Design Complete:</td> <td><u>Apr 2010</u></td> </tr> <tr> <td>3. Initial/Final Project Award:</td> <td><u>Mar 2009/Mar 2009</u></td> </tr> <tr> <td>4. Construction Complete:</td> <td><u>Not Applicable</u></td> </tr> <tr> <td>5. Equipment Installation Complete:</td> <td><u>Not Applicable</u></td> </tr> <tr> <td>6. Prove Out Begins:</td> <td><u>Not Applicable</u></td> </tr> <tr> <td>7. Prove Out Complete:</td> <td><u>Not Applicable</u></td> </tr> </tbody> </table>					Month & Year	1. Concept Design Complete:	<u>Apr 2008</u>	2. Final Design Complete:	<u>Apr 2010</u>	3. Initial/Final Project Award:	<u>Mar 2009/Mar 2009</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>
	Month & Year																						
1. Concept Design Complete:	<u>Apr 2008</u>																						
2. Final Design Complete:	<u>Apr 2010</u>																						
3. Initial/Final Project Award:	<u>Mar 2009/Mar 2009</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:**  
 FY 2009 procurement supports the relocation of the Acetic Acid and Anhydrous Acid operation from Area A to Area B. This project will perform design and engineering to address site plans, equipment layouts, piping, utilities and services, and interconnection to Holston Army Ammunition Plant's (AAP's) process buildings. Area A is 4 miles from the main section of Holston AAP's manufacturing complex and is connected by a rail spur and pipelines that run along the rail right-of-way. This effort will reduce unnecessary costs, decrease operating inefficiencies, and will help alleviate potential disruption to plant operations from sabotage.

**Exhibit P-25, Production Support and Industrial Facilities Cost Analysis (Dollars in Thousands)**

1. Date: February 2008

2. Project Title/Type  
Small Caliber Modernization Production Line Upgrades

3. End Item Supported Model  
5.56mm, 7.62mm (all types); .50 Cal (all types except SLAP-T)

4. Project Number:  
50X3356

5. Annual Capacity Before (1-8-5)  
N/A

6. Annual Capacity After (1-8-5):  
N/A

Element of Cost	FY 07	FY 08	FY 09	H. Facility						
<b>A. Construction Cost</b>	4199			1. Name: <u>Lake City Army Ammunition Plant</u>						
<b>B. Equipment Cost*</b> (Individual equipment cost should be specified for all equipment costing more than \$0.5 Million)	32311	39998	28634	2. Location: <u>Independence, Missouri</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
<b>Subtotal Costs</b>	32311	39998	28634							
<b>C. Equipment Installation Cost</b>	8190	10770	18864							
<b>D. Contractor Support Cost</b>	867	760	943							
<b>E. Corps of Engineers Support Cost</b>										
<b>F. Other In-House Support Cost</b>	1073	1102	949							
<b>Total Facility Project Cost</b>	46640	52630	49390	<b>J. Principal Milestones</b>						
<b>G. Other Costs</b>				1. Concept Design Complete: <u>Not Applicable</u>						
1. Facility Prove-out Cost				2. Final Design Complete: <u>Apr 2009</u>						
2. Material Construction Appn.				3. Initial/Final Project Award: <u>Apr 2009/Apr 2009</u>						
				4. Construction Complete: <u>Apr 2010</u>						
				5. Equipment Installation Complete: <u>Apr 2010</u>						
				6. Prove Out Begins: <u>May 2010</u>						
				7. Prove Out Complete: <u>Jun 2010</u>						

**Narrative Explanation:**

FY 2009 procurement supports state-of-the-art improvements in small caliber ammunition manufacturing at Lake City Army Ammunition Plant. Current facilities and equipment are antiquated and in need of replacement and upgrade to 21st century standards. The circa 1970's automated high-speed Small Caliber Ammunition Modernization Program (SCAMP) production lines will be upgraded and include associated improvements to electrical utilities and heating, ventilation, and air conditioning (HVAC) systems. When completed, product quality and equipment reliability, availability, and maintainability will improve.

**Exhibit P-25, Production Support and Industrial Facilities Cost Analysis (Dollars in Thousands)**

1. Date: February 2008

2. Project Title/Type  
Solvent Recovery Construction, New Still House and Tanks

3. End Item Supported Model  
Propellants

4. Project Number:  
50X2650

5. Annual Capacity Before (1-8-5)  
N/A

6. Annual Capacity After (1-8-5):  
N/A

Element of Cost	FY 07	FY 08	FY 09	H. Facility						
<b>A. Construction Cost</b>		2135	2587	1. Name: <u>Radford Army Ammunition Plant</u>						
<b>B. Equipment Cost*</b> (Individual equipment cost should be specified for all equipment costing more than \$0.5 Million)		2919	515	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
<b>Subtotal Costs</b>		2919	515	2650	Solvent Recovery Contract	2010	8.305			
<b>C. Equipment Installation Cost</b>		2321	2837							
<b>D. Contractor Support Cost</b>		306	1497							
<b>E. Corps of Engineers Support Cost</b>										
<b>F. Other In-House Support Cost</b>			700							
<b>Total Facility Project Cost</b>		7681	8136	<b>J. Principal Milestones</b>						
<b>G. Other Costs</b>				<b>Month &amp; Year</b>						
1. Facility Prove-out Cost				1. Concept Design Complete: <u>May 2008</u>						
2. Material Construction Appn.				2. Final Design Complete: <u>Jun 2009</u>						
				3. Initial/Final Project Award: <u>Jul2008/Dec 2008</u>						
				4. Construction Complete: <u>May 2010</u>						
				5. Equipment Installation Complete: <u>May 2010</u>						
				6. Prove Out Begins: <u>Jun 2010</u>						
				7. Prove Out Complete: <u>Jul 2010</u>						

**Narrative Explanation:**

FY 2009 procurement supports the necessary replacement of the distillation process. The equipment in this facility is failing and is beyond code repair. Additionally, operators are directly exposed to fugitive solvent vapors from system leaks and malfunctions. The replacement equipment will provide for continued recovery and reuse of collected solvents in support of the solvent propellant manufacturing area, as well as reduce exposure of solvent to personnel. Without this system, collected mixed solvents from manufacturing processes must be shipped off-site as hazardous waste.

**Exhibit P-25, Production Support and Industrial Facilities Cost Analysis (Dollars in Thousands)**

1. Date: February 2008

2. Project Title/Type  
Modernize Nitrocellulose (NC) Facility

3. End Item Supported Model  
Propellants & Explosives

4. Project Number:  
5092736

5. Annual Capacity Before (1-8-5)  
N/A

6. Annual Capacity After (1-8-5):  
N/A

Element of Cost	FY 07	FY 08	FY 09	H. Facility						
<b>A. Construction Cost</b> <b>B. Equipment Cost*</b> (Individual equipment cost should be specified for all equipment costing more than \$0.5 Million) 1. 2. 3. <b>Subtotal Costs</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-House Support Cost</b> <b>Total Facility Project Cost</b> <b>G. Other Costs</b> 1. Facility Prove-out Cost 2. Material Construction Appn.				1. Name: <u>Radford Army Ammunition Plant</u> 2. Location: <u>Radford, Virginia</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			
				18000						
				18000						
	<b>J. Principal Milestones</b>							<b>Month &amp; Year</b>		
	1. Concept Design Complete:							<u>Not Applicable</u>		
	2. Final Design Complete:							<u>Mar 2010</u>		
	3. Initial/Final Project Award:							<u>Apr 2009/Apr 2009</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:**

FY 2009 procurement supports modernization of the Nitrocellulose (NC) manufacturing plant to assure that it is right-sized to meet the Army's needs. This project will address critical areas needing evaluation to sustain operations and identification of remaining serviceable life. This modernization will reduce energy and water use, reduce labor requirements, reduce acid requirements and improve quality of Nitrocellulose at Radford Army Ammunition Plant (AAP).

**Exhibit P-25, Production Support and Industrial Facilities Cost Analysis (Dollars in Thousands)**

1. Date: February 2008

2. Project Title/Type  
Design of Acid Production for Small Arms Propellant

3. End Item Supported Model  
Propellants & Explosives (Nitroglycerin & Nitrocellulose)

4. Project Number: 5073120

5. Annual Capacity Before (1-8-5)  
N/A

6. Annual Capacity After (1-8-5):  
N/A

Element of Cost	FY 07	FY 08	FY 09	H. Facility						
<b>A. Construction Cost</b> <b>B. Equipment Cost*</b> (Individual equipment cost should be specified for all equipment costing more than \$0.5 Million) 1. 2. 3. <b>Subtotal Costs</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-House Support Cost</b> <b>Total Facility Project Cost</b> <b>G. Other Costs</b> 1. Facility Prove-out Cost 2. Material Construction Appn.				1. Name: <u>Radford Army Ammunition Plant</u> 2. Location: <u>Radford, Virginia</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
	17381			<b>J. Principal Milestones</b>						
	17381			1. Concept Design Complete: <u>Not Applicable</u> 2. Final Design Complete: <u>March 2008</u> 3. Initial/Final Project Award: <u>Jun 2009/Jun 2009</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:**  
 Procurement supports the design phase for modernization of the nitric acid concentrator (NAC) and sulfuric acid concentrator (SAC) trains for the production of the nitrocellulose (NC), propellants, and trinitrotoluene (TNT). Production of NC requires the use of nitric and sulfuric acids; these acids are depleted during the NC nitration process and must be reconcentrated. This reconcentration is accomplished through use of a NAC/SAC that has been operating since 1977 and has exceeded its design life of 20 years. Since repair costs are increasing and no longer economically viable, this project will replace the NAC/SAC system and provide expanded acid capacity for propellant production. Radford AAP is the sole United States/Canada supplier of NC, an essential ingredient in all ammunition propellants.

**Exhibit P-25, Production Support and Industrial Facilities Cost Analysis (Dollars in Thousands)**

1. Date: February 2008

2. Project Title/Type  
Radford Operations

3. End Item Supported Model  
Propellants & Explosives

4. Project Number:  
50X3407

5. Annual Capacity Before (1-8-5)  
N/A

6. Annual Capacity After (1-8-5):  
N/A

Element of Cost	FY 07	FY 08	FY 09	H. Facility						
<b>A. Construction Cost</b>				1. Name: <u>Radford Army Ammunition Plant</u>						
<b>B. Equipment Cost*</b> (Individual equipment cost should be specified for all equipment costing more than \$0.5 Million)				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
<b>Subtotal Costs</b>				3407	Radford Operation	2006	19.707			
<b>C. Equipment Installation Cost</b>				3407	Radford Operation	2010	10.000			
<b>D. Contractor Support Cost</b>										
<b>E. Corps of Engineers Support Cost</b>										
<b>F. Other In-House Support Cost</b>	20730	20730	20730							
<b>Total Facility Project Cost</b>	20730	20730	20730							
<b>G. Other Costs</b>				<b>J. Principal Milestones</b>				<b>Month &amp; Year</b>		
1. Facility Prove-out Cost				1. Concept Design Complete:				<u>Not Applicable</u>		
2. Material Construction Appn.				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:**

FY 2009 procurement supports funding to enable Radford Army Ammunition Plant's (AAP's) operations to supply propellants, explosives, and corresponding intermediate products to the services, and supplements the necessary operating revenue to sustain Radford AAP's operations. This effort will result in capacity that meets peacetime and surge requirements.

**Exhibit P-25, Production Support and Industrial Facilities Cost Analysis (Dollars in Thousands)**

1. Date: February 2008

2. Project Title/Type  
Replace Production and Inventory Management Control (PRIMAC) System

3. End Item Supported Model  
Propellants & Explosives

4. Project Number:  
5093483

5. Annual Capacity Before (1-8-5)  
N/A

6. Annual Capacity After (1-8-5):  
N/A

Element of Cost	FY 07	FY 08	FY 09	H. Facility							
<b>A. Construction Cost</b>				1. Name: <u>Radford Army Ammunition Plant</u>							
<b>B. Equipment Cost*</b> (Individual equipment cost should be specified for all equipment costing more than \$0.5 Million) 1. 2. 3.			3189	2. Location: <u>Radford, Virginia</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	
<b>Subtotal Costs</b>			3189								
<b>C. Equipment Installation Cost</b>			2817								
<b>D. Contractor Support Cost</b>			1158								
<b>E. Corps of Engineers Support Cost</b>											
<b>F. Other In-House Support Cost</b>											
<b>Total Facility Project Cost</b>			7164	<b>J. Principal Milestones</b>				<b>Month &amp; Year</b>			
<b>G. Other Costs</b> 1. Facility Prove-out Cost 2. Material Construction Appn.				1. Concept Design Complete:				<u>Not Applicable</u>			
				2. Final Design Complete:				<u>Jan 2010</u>			
				3. Initial/Final Project Award:				<u>Feb 2009/Feb 2009</u>			
				4. Construction Complete:				<u>Not Applicable</u>			
				5. Equipment Installation Complete:				<u>Mar 2010</u>			
				6. Prove Out Begins:				<u>Jul 2010</u>			
				7. Prove Out Complete:				<u>Apr 2011</u>			

**Narrative Explanation:**

FY 2009 procurement supports the replacement of the Production and Inventory Management and Control System (PRIMAC) valve which is obsolete. This valve is an explosively actuated, ultra high-speed type water spray system deluge valve designed for the use in fire protection system applications. The valves are no longer available commercially; there are no spare parts in the industrial base. Existing operations requiring the PRIMAC valve are not safe to operate without the system. If a valve fails, there is no means to repair the unit. This new system will eliminate explosive squibs and allow for better control of the flow of water to specific areas.



**Exhibit P-25, Production Support and Industrial Facilities Cost Analysis (Dollars in Thousands)**

1. Date: February 2008

2. Project Title/Type  
Modernize Bliss IV Nosing Press

3. End Item Supported Model  
M795, M107, M110, 120mm Mortar

4. Project Number:  
5093920

5. Annual Capacity Before (1-8-5)  
N/A

6. Annual Capacity After (1-8-5):  
N/A

Element of Cost	FY 07	FY 08	FY 09	H. Facility							
<b>A. Construction Cost</b>				1. Name: <u>Scranton Army Ammunition Plant</u>							
<b>B. Equipment Cost*</b> (Individual equipment cost should be specified for all equipment costing more than \$0.5 Million) 1. 2. 3.			1969	2. Location: <u>Scranton, Pennsylvania</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	
<b>Subtotal Costs</b>			1969								
<b>C. Equipment Installation Cost</b>			3436								
<b>D. Contractor Support Cost</b>			344								
<b>E. Corps of Engineers Support Cost</b>											
<b>F. Other In-House Support Cost</b>											
<b>Total Facility Project Cost</b>			5749	<b>J. Principal Milestones</b>				<b>Month &amp; Year</b>			
<b>G. Other Costs</b> 1. Facility Prove-out Cost 2. Material Construction Appn.				1. Concept Design Complete:				<u>Not Applicable</u>			
				2. Final Design Complete:				<u>Aug 2008</u>			
				3. Initial/Final Project Award:				<u>May 2009/May 2009</u>			
				4. Construction Complete:				<u>Not Applicable</u>			
				5. Equipment Installation Complete:				<u>Sep 2010</u>			
				6. Prove Out Begins:				<u>Nov 2010</u>			
				7. Prove Out Complete:				<u>Nov 2010</u>			

**Narrative Explanation:**

FY 2009 procurement supports the modernization of the Bliss IV nosing press to include metal preparation. Execution of this project will give Scranton Army Ammunition Plant (AAP) four active nosing presses, which will reduce re-tooling requirements in the production of artillery and mortar projectiles. Scranton currently has three nosing presses; however, they produce five projectiles (M795, M107, M110, 5"/54, 120 mortar) that involve nosing operations. This requires considerable re-tooling and results in high scrap rates for this operation. The activation of a fourth nosing press will allow an additional press to be dedicated for a single item and reduce scrap and re-tooling cost.

**Exhibit P-25, Production Support and Industrial Facilities Cost Analysis (Dollars in Thousands)**

1. Date: February 2008

2. Project Title/Type  
Engineering in Support of Industrial Facilities

3. End Item Supported Model  
Multiple

4. Project Number:  
50X3046

5. Annual Capacity Before (1-8-5)  
N/A

6. Annual Capacity After (1-8-5):  
N/A

Element of Cost	FY 07	FY 08	FY 09	H. Facility						
<b>A. Construction Cost</b>				1. Name: <u>Various Army Ammunition Plants</u>						
<b>B. Equipment Cost*</b> (Individual equipment cost should be specified for all equipment costing more than \$0.5 Million)				2. Location: <u>Multiple</u>						
1.				3. Type (GOGO, GOCO, COCO): <u>GOCO, GOGO</u>						
2.				<b>I. Related Projects</b>						
3.				Project Number	Title	FY & Appn	Value (\$ Mil)	Facing	Start Date	Compl Date
<b>Subtotal Costs</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-House Support Cost</b>	1971	2302	5359							
<b>Total Facility Project Cost</b>	1971	2302	5359	<b>J. Principal Milestones</b>						
<b>G. Other Costs</b>				1. Concept Design Complete: <u>Not Applicable</u>						
1. Facility Prove-out Cost				2. Final Design Complete: <u>Not Applicable</u>						
2. Material Construction Appn.				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:**

FY 2009 procurement supports the procurement package processing and engineering support efforts for Production Base Support (PBS) program execution.

**Exhibit P-25, Production Support and Industrial Facilities Cost Analysis (Dollars in Thousands)**

1. Date: February 2008

2. Project Title/Type  
Industrial Waste Treatment Plant for Research Department Explosive (RDX)

3. End Item Supported Model  
Research Department Explosive (RDX)

4. Project Number:  
50X3974

5. Annual Capacity Before (1-8-5)  
N/A

6. Annual Capacity After (1-8-5):  
N/A

Element of Cost	FY 07	FY 08	FY 09	H. Facility						
<b>A. Construction Cost</b>				1. Name: <u>Holston Army Ammunition Plant</u>						
<b>B. Equipment Cost*</b> (Individual equipment cost should be specified for all equipment costing more than \$0.5 Million) 1. 2. 3.			7307	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
<b>Subtotal Costs</b>			7307							
<b>C. Equipment Installation Cost</b>			7327							
<b>D. Contractor Support Cost</b>			366							
<b>E. Corps of Engineers Support Cost</b>										
<b>F. Other In-House Support Cost</b>		5000								
<b>Total Facility Project Cost</b>		5000	15000							
<b>G. Other Costs</b> 1. Facility Prove-out Cost 2. Material 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>Jan 2009</u>		
				3. Initial/Final Project Award:				<u>May 2009/May 2009</u>		
				4. Construction Complete:				<u>Not Applicable</u>		
				5. Equipment Installation Complete:				<u>May 2011</u>		
				6. Prove Out Begins:				<u>Jun 2011</u>		
				7. Prove Out Complete:				<u>Jun 2011</u>		

**Narrative Explanation:**

FY 2009 procurement supports the construction of an industrial waste treatment plant for Research Department Explosive (RDX) manufacturing. Samples taken from the Holston River, down stream from the plant, indicate RDX levels exceed proposed standards. This project will insure that wastewater from RDX production is effectively treated in order to avoid environmental fines or plant shutdown when the new limits are implemented by the State of Tennessee.

**Exhibit P-25, Production Support and Industrial Facilities Cost Analysis (Dollars in Thousands)**

1. Date: February 2008

2. Project Title/Type  
IAAAP Steam Plant NESHAP MACT

3. End Item Supported Model  
Artillery, Tank, Mortar, & Mine Load Components

4. Project Number:  
5073436

5. Annual Capacity Before (1-8-5)  
N/A

6. Annual Capacity After (1-8-5):  
N/A

Element of Cost	FY 07	FY 08	FY 09	H. Facility						
<b>A. Construction Cost</b>	7578			1. Name: <u>Iowa Army Ammunition Plant</u>						
<b>B. Equipment Cost*</b> (Individual equipment cost should be specified for all equipment costing more than \$0.5 Million)	3399			2. Location: <u>Middletown, Iowa</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
<b>Subtotal Costs</b>	3399			5063436	ISAAAP Steam Plant NESHAP MACT	2006	9.500			
<b>C. Equipment Installation Cost</b>	3673			<b>J. Principal Milestones</b>						
<b>D. Contractor Support Cost</b>	563			1. Concept Design Complete: <u>Not Applicable</u>						
<b>E. Corps of Engineers Support Cost</b>				2. Final Design Complete: <u>Apr 2007</u>						
<b>F. Other In-House Support Cost</b>	293			3. Initial/Final Project Award: <u>Nov 2006/Nov 2006</u>						
<b>Total Facility Project Cost</b>	15506			4. Construction Complete: <u>Dec 2008</u>						
<b>G. Other Costs</b>				5. Equipment Installation Complete: <u>Sep 2008</u>						
1. Facility Prove-out Cost				6. Prove Out Begins: <u>Sep 2008</u>						
2. Material Construction Appn.				7. Prove Out Complete: <u>Dec 2008</u>						

**Narrative Explanation:**  
Procurement supports the follow-on phase of a critical modernization effort to meet the Maximum Achievable Control Technology (MACT) compliance date of September 2007. The coal-fired main heating plant is impacted by National Emission Standards for Hazardous Air Pollutants (NESHAP) requirements for industrial boilers/institutional boilers/commercial boilers/process heaters to control particulate matter and metals. The Army Environmental Center (AEC) has previously noted that an electrostatic precipitator, wet scrubber, and a bag house were required for each of the two boilers.

**Exhibit P-25, Production Support and Industrial Facilities Cost Analysis (Dollars in Thousands)**

1. Date: February 2008

2. Project Title/Type  
Industrial Wastewater Treatment Upgrade

3. End Item Supported Model  
5.62mm & 7.62mm; .50 Cal & 20mm

4. Project Number:  
50X2670

5. Annual Capacity Before (1-8-5)  
N/A

6. Annual Capacity After (1-8-5):  
N/A

Element of Cost	FY 07	FY 08	FY 09	H. Facility						
<b>A. Construction Cost</b>			3789	1. Name: <u>Lake City Army Ammunition Plant</u>						
<b>B. Equipment Cost*</b> (Individual equipment cost should be specified for all equipment costing more than \$0.5 Million) 1. 2. 3.			541	2. Location: <u>Independence, Missouri</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
<b>Subtotal Costs</b>			541							
<b>C. Equipment Installation Cost</b>			325							
<b>D. Contractor Support Cost</b>			211							
<b>E. Corps of Engineers Support Cost</b>										
<b>F. Other In-House Support Cost</b>		530	211							
<b>Total Facility Project Cost</b>		530	5077							
<b>G. Other Costs</b>				<b>J. Principal Milestones</b>						
1. Facility Prove-out Cost				1. Concept Design Complete: <u>Not Applicable</u>						
2. Material Construction Appn.				2. Final Design Complete: <u>Feb 2009</u>						
				3. Initial/Final Project Award: <u>Sep 2009/Sep 2009</u>						
				4. Construction Complete: <u>May 2010</u>						
				5. Equipment Installation Complete: <u>May 2010</u>						
				6. Prove Out Begins: <u>Not Applicable</u>						
				7. Prove Out Complete: <u>Not Applicable</u>						

**Narrative Explanation:**

FY 2009 will construct environmental upgrades to the Industrial Waste Water Treatment Plant (IWWTP) to meet the added requirements caused by the increased production capacity of the plant.

**Exhibit P-25, Production Support and Industrial Facilities Cost Analysis (Dollars in Thousands)**

1. Date: February 2008

2. Project Title/Type  
Upgrade Decontamination Oven/Contaminated Waste Processor

3. End Item Supported Model  
Propellants & Explosives (Nitrocellulose & Nitroglycerin)

4. Project Number:  
5082967

5. Annual Capacity Before (1-8-5)  
N/A

6. Annual Capacity After (1-8-5):  
N/A

Element of Cost	FY 07	FY 08	FY 09	H. Facility						
<b>A. Construction Cost</b>		6136		1. Name: <u>Radford Army Ammunition Plant</u>						
<b>B. Equipment Cost*</b> (Individual equipment cost should be specified for all equipment costing more than \$0.5 Million)		426		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
<b>Subtotal Costs</b>		426								
<b>C. Equipment Installation Cost</b>		508		<b>J. Principal Milestones</b>						
<b>D. Contractor Support Cost</b>		390		1. Concept Design Complete: <u>Not Applicable</u>						
<b>E. Corps of Engineers Support Cost</b>		368		2. Final Design Complete: <u>Jan 2008</u>						
<b>F. Other In-House Support Cost</b>		742		3. Initial/Final Project Award: <u>Aug 2008/Aug 2008</u>						
<b>Total Facility Project Cost</b>		8570		4. Construction Complete: <u>Jan 2010</u>						
<b>G. Other Costs</b>				5. Equipment Installation Complete: <u>Mar 2010</u>						
1. Facility Prove-out Cost				6. Prove Out Begins: <u>Dec 2010</u>						
2. Material Construction Appn.				7. Prove Out Complete: <u>Jan 2011</u>						

**Narrative Explanation:**

Procurement supports the balance of equipment procurement, construction, and prove out of a contaminated waste processor (CWP) to replace the air curtain destructor (ACD) and the open burning pit (OBP). This project will provide a CWP capable of decontaminating propellant contaminated materials to 5X, and eliminate the need for open burning. The operating and emission permits for the ACD expired in 2005; therefore, the current method is temporary and not a normal operational method. The ACD does not meet the air quality regulations with the current equipment. The permits for that equipment have expired and operations have stopped. The only remaining method to decontaminate is by open burning. That process is permitted by the state, but must be renegotiated for each burn. In 2005, there was only one burn; consequently, storage and handling of contaminated materials becomes an expensive and cumbersome labor and administrative effort.

**Exhibit P-25, Production Support and Industrial Facilities Cost Analysis (Dollars in Thousands)**

1. Date: February 2008

2. Project Title/Type  
Rebuild C-Line Solvent Recovery System Continuation

3. End Item Supported Model  
Propellants & Explosives (Nitroglycerin & Nitrocellulose)

4. Project Number:  
50X3006

5. Annual Capacity Before (1-8-5)  
N/A

6. Annual Capacity After (1-8-5):  
N/A

Element of Cost	FY 07	FY 08	FY 09	H. Facility						
<b>A. Construction Cost</b>		2936		1. Name: <u>Radford Army Ammunition Plant</u>						
<b>B. Equipment Cost*</b> (Individual equipment cost should be specified for all equipment costing more than \$0.5 Million)		1976		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
<b>Subtotal Costs</b>		1976								
<b>C. Equipment Installation Cost</b>		2001		<b>J. Principal Milestones</b>						
<b>D. Contractor Support Cost</b>		741		1. Concept Design Complete: <u>Not Applicable</u>						
<b>E. Corps of Engineers Support Cost</b>				2. Final Design Complete: <u>Feb 2008</u>						
<b>F. Other In-House Support Cost</b>	1500	346		3. Initial/Final Project Award: <u>Mar 2008/Mar 2008</u>						
<b>Total Facility Project Cost</b>	1500	8000		4. Construction Complete: <u>Mar 2010</u>						
<b>G. Other Costs</b>				5. Equipment Installation Complete: <u>Mar 2010</u>						
1. Facility Prove-out Cost				6. Prove Out Begins: <u>Apr 2010</u>						
2. Material Construction Appn.				7. Prove Out Complete: <u>Jun 2010</u>						

**Narrative Explanation:**

Procurement supports the next phase of engineering and installation of material to collect alcohol and ether used in propellant manufacturing. This collection process will allow the solvents to be recovered for reuse in the manufacturing process and will reduce operator exposure in the production areas. The current system is over 65 years old and is at risk for failure. Constant maintenance has plagued current operations. The equipment is beyond code repair. This effort will reduce solvent losses and production costs in the solvent propellant manufacturing area.

**Exhibit P-25, Production Support and Industrial Facilities Cost Analysis (Dollars in Thousands)**

1. Date: February 2008

2. Project Title/Type  
RFAAP Steam Plant NESHAP MACT

3. End Item Supported Model  
Propellants & Explosives (Nitroglycerin & Nitrocellulose)

4. Project Number:  
5073915

5. Annual Capacity Before (1-8-5)  
N/A

6. Annual Capacity After (1-8-5):  
N/A

Element of Cost	FY 07	FY 08	FY 09	H. Facility						
<b>A. Construction Cost</b>	8057			1. Name: <u>Radford Army Ammunition Plant</u>						
<b>B. Equipment Cost*</b> (Individual equipment cost should be specified for all equipment costing more than \$0.5 Million)	13159			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
<b>Subtotal Costs</b>	13159									
<b>C. Equipment Installation Cost</b>	4297			<b>J. Principal Milestones</b>						
<b>D. Contractor Support Cost</b>	806			1. Concept Design Complete: <u>Not Applicable</u>						
<b>E. Corps of Engineers Support Cost</b>				2. Final Design Complete: <u>Apr 2007</u>						
<b>F. Other In-House Support Cost</b>	537			3. Initial/Final Project Award: <u>Feb 2007/Apr 2007</u>						
<b>Total Facility Project Cost</b>	26856			4. Construction Complete: <u>Aug 2008</u>						
<b>G. Other Costs</b>				5. Equipment Installation Complete: <u>Dec 2008</u>						
1. Facility Prove-out Cost				6. Prove Out Begins: <u>Jun 2008</u>						
2. Material Construction Appn.				7. Prove Out Complete: <u>Jan 2009</u>						

**Narrative Explanation:**

Procurement supports the follow-on phase of a critical modernization effort. The powerhouse is an aged cogeneration plant and is an operating risk. In September 2007, National Emission Standards for Hazardous Air Pollutants (NESHAP) will tighten making the existing emission controls out of compliance. This effort will upgrade or replace the existing steam plant to comply with Maximum Achievable Control Technology (MACT) environmental standards.



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

Date: February 2008

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 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013	To Complete	Total Prog
Proc Qty										
Gross Cost	623.6	3.1	3.4	5.1	9.7	9.6	9.7	9.8		673.8
Less PY Adv Proc										
Plus CY Adv Proc										
Net Proc P1	623.6	3.1	3.4	5.1	9.7	9.6	9.7	9.8		673.8
Initial Spares										
Total Proc Cost	623.6	3.1	3.4	5.1	9.7	9.6	9.7	9.8		673.8
Flyaway U/C										
Weapon System Proc U/C										

**Description:**

Resources will be used at active and semi-active installations for preservation of production equipment and real property facilities required for future production, consolidation of laid-away production equipment, redistribution of production equipment that cannot be stored on-site, safety-related decontamination of production equipment and facilities, and environmental site assessments.

**Justification:**

FY 2009 procurement supports the protection and preservation of industrial facilities at active and semi-active installations and equipment that is no longer required for current production but must be retained for future peacetime, emergency, or surge production needs.

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

Date: February 2008

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 07</u>	<u>FY 08</u>	<u>FY 09</u>
Active and Semi-Active Government-Owned Facilities	Layaway and Decontaminate Minor Efforts Less Than \$0.100M	8000	0.250	0.672	0.440
Active Government-Owned Facilities	Layaway and Decontamination at Active Ammunition Plants (Efforts over \$0.100M)	8426	2.666		
Hawthorne Army Depot, Hawthorne, Nevada	Disposal of Excess Equipment	8025			2.464
Iowa Army Ammunition Plant, Middletown, Iowa	Decontamination and Closure of Building 1-10 and Miscellaneous Line 1 Facilities	8021			0.554
Iowa Army Ammunition Plant, Middletown, Iowa	Closure of Flyash Landfill	8849			1.627
Lake City Army Ammunition Plant, Independence, Missouri	Closure of Area 8 Special Waste Landfill	8031	0.136	1.346	
Milan Army Ammunition Plant, Milan, Tennessee	Transition Line F to Modified Caretaker	8036		0.188	
Radford Army Ammunition Plant, Radford, Virginia	Closure Cost For Plant Landfill	8327		1.207	
	Total		3.052	3.413	5.085

<b>Exhibit P-17, Layaway and/or Distribution</b>							Date:
Appropriation / Budget Activity / Serial No: Procurement of Ammunition, Army / 2 / Ammunition production base support							P-1 Item Nomenclature LAYAWAY OF INDUSTRIAL FACILITIES (EP2000)
Project: 8000	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013
Funding:	0.250	0.672	0.440	0.500	0.818	0.600	0.600
Title: Layaway and Decontaminate Minor Efforts Less Than \$0.100M Description: FY 2009 procurement supports various minor efforts at active and semi-active facilities that preserve and store industrial facilities and equipment no longer required to support current production.							
<b>Manufacturer (Name and Location)</b> Active and Semi-Active Government-Owned Facilities			<b>Production Lines being laid away (Include Location)</b> Various			<b>Production Ends</b> Not Applicable	
<b>Layaway Cost:</b> 0.440			<b>Other Costs:</b>			<b>Annual Maintenance Cost:</b>	
Project: 8025	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013
Funding:			2.464				
Title: Disposal of Excess Equipment Description: FY 2009 procurements supports the disposal of 442 pieces of excess Industrial Plant Equipment (IPE) and Other Plant Equipment (OPE) stored at Hawthorne Army Depot (HWAD). This equipment will be sold and removed from the property resulting in a significant decrease to annual storage costs.							
<b>Manufacturer (Name and Location)</b> Hawthorne Army Depot, Hawthorne, Nevada			<b>Production Lines being laid away (Include Location)</b> Not Applicable			<b>Production Ends</b> Not Applicable	
<b>Layaway Cost:</b> 2.464			<b>Other Costs:</b>			<b>Annual Maintenance Cost:</b>	
Project: 8021	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013
Funding:			0.554				
Title: Decontamination and Closure of Building 1-10 and Miscellaneous Line 1 Facilities Description: FY 2009 procurement will prepare selected buildings and facilities in production Line 1 for conversion to modified caretaker status. Buildings include: Assembly Building 1-10 and miscellaneous support buildings (1-115-7, 1-134-1, and 1-172); Personnel Shelters (1-136-4 through 11, 1-14, 1-188-1, 1-207-2, 1-36, 1-50, 1-52, 1-70-1); Explosive Storage Magazines (1-71 through 1-76); and Vacuum Buildings (1-99-1 through 1-99-6). Conversion to modified caretaker status will eliminate further energy and maintenance considerations. This will reduce the installation's overall overhead expense, while saving energy and diminishing the Government's potential liability for personnel injury or environmental consequences.							
<b>Manufacturer (Name and Location)</b> Iowa Army Ammunition Plant, Middletown, Iowa			<b>Production Lines being laid away (Include Location)</b> Family of Scatterable Mines (FASCAM)			<b>Production Ends</b>	
<b>Layaway Cost:</b> 0.554			<b>Other Costs:</b>			<b>Annual Maintenance Cost:</b>	
Project: 8849	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013
Funding:			1.627	1.781			
Title: Closure of Flyash Landfill Description: FY 2009 procurement is the initial phase for the physical closure of the pre-existing landfill located near the main heating plant. Iowa Administrative Code requires closure to be performed. This is a must-fund environmental requirement.							
<b>Manufacturer (Name and Location)</b> Iowa Army Ammunition Plant, Middletown, Iowa			<b>Production Lines being laid away (Include Location)</b> Not Applicable			<b>Production Ends</b> Not Applicable	

<b>Exhibit P-17, Layaway and/or Distribution</b>							Date: February 2008
Appropriation / Budget Activity / Serial No: Procurement of Ammunition, Army / 2 / Ammunition production base support				P-1 Item Nomenclature LAYAWAY OF INDUSTRIAL FACILITIES (EP2000)			
<b>Layaway Cost:</b>		1.627		<b>Other Costs:</b>		<b>Annual Maintenance Cost:</b>	
Project: 8031	<b>FY 2007</b>	<b>FY 2008</b>	<b>FY 2009</b>	<b>FY 2010</b>	<b>FY 2011</b>	<b>FY 2012</b>	<b>FY 2013</b>
Funding:	0.136	1.346					
<p>Title: Closure of Area 8 Special Waste Landfill</p> <p>Description: Procurement supports this effort to construct a Resource Conservation and Recovery Act (RCRA) "C" cover on Cells 1 and 2 in the Area 8 special waste landfill. This action is required in order to meet the State of Missouri and RCRA compliance for closure of the two cells. Cells 1 and 2 of the Area special waste landfill contain K046 hazardous waste. This project will be coordinated with the Department of the Army and the Missouri Department of Natural Resources (MDNR) in the validation of these closure requirements.</p>							
<b>Manufacturer (Name and Location)</b> Lake City Army Ammunition Plant, Independence, Missouri			<b>Production Lines being laid away (Include Location)</b> Area 8			<b>Production Ends</b>	
<b>Layaway Cost:</b>		1.346		<b>Other Costs:</b>		<b>Annual Maintenance Cost:</b>	
Project: 8036	<b>FY 2007</b>	<b>FY 2008</b>	<b>FY 2009</b>	<b>FY 2010</b>	<b>FY 2011</b>	<b>FY 2012</b>	<b>FY 2013</b>
Funding:		0.188					
<p>Title: Transition Line F to Modified Caretaker</p> <p>Description: Procurement is to provide for the transition of Line F into modified caretaker status to include the removal of asbestos, ozone depleting chemicals (ODCs) and polychlorinated biphenyl (PCBs). It will also turn off all utilities, move critical equipment to a suitable storage location, and excess non-critical equipment. The line included in this project is no longer required for emergency production.</p>							
<b>Manufacturer (Name and Location)</b> Milan Army Ammunition Plant, Milan, Tennessee			<b>Production Lines being laid away (Include Location)</b>			<b>Production Ends</b>	
<b>Layaway Cost:</b>		0.188		<b>Other Costs:</b>		<b>Annual Maintenance Cost:</b>	
Project: 8327	<b>FY 2007</b>	<b>FY 2008</b>	<b>FY 2009</b>	<b>FY 2010</b>	<b>FY 2011</b>	<b>FY 2012</b>	<b>FY 2013</b>
Funding:		1.207					
<p>Title: Closure Cost For Plant Landfill</p> <p>Description: Procurement involves the orderly closure and sealing of Radford Army Ammunition Plant's (AAP's) landfill to insure no groundwater contamination. The action was previously negotiated with the state of Virginia and compliance with the closure plan is necessary. This effort is required to comply with orderly closure of landfill.</p>							
<b>Manufacturer (Name and Location)</b> Radford Army Ammunition Plant, Radford, Virginia			<b>Production Lines being laid away (Include Location)</b>			<b>Production Ends</b>	
<b>Layaway Cost:</b>		1.207		<b>Other Costs:</b>		<b>Annual Maintenance Cost:</b>	

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

Date: February 2008

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 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013	To Complete	Total Prog
Proc Qty										
Gross Cost	478.3	4.7	5.4	5.6	5.6	5.6	5.7	5.8		516.5
Less PY Adv Proc										
Plus CY Adv Proc										
Net Proc P1	478.3	4.7	5.4	5.6	5.6	5.6	5.7	5.8		516.5
Initial Spares										
Total Proc Cost	478.3	4.7	5.4	5.6	5.6	5.6	5.7	5.8		516.5
Flyaway U/C										
Weapon System Proc U/C										

**Description:**

Funds are used for the maintenance of laid-away ammunition industrial facilities to include utilities, buildings, plant equipment, special tooling, and special test equipment being retained to support future production requirements. Also, included is a fair share of the recurring overhead costs such as grounds maintenance, fire protection, plant security, and administrative support.

**Justification:**

FY 2009 procurement supports the care and maintenance of laid-away equipment and facilities at active and semi-active ammunition plants.

Exhibit P-5, Weapon AMMO Cost Analysis	Appropriation/Budget Activity/Serial No: Procurement of Ammunition, Army / 2 / Ammunition production base support	P-1 Line Item Nomenclature: MAINTENANCE OF INACTIVE FACILITIES (EP1500)			Weapon System Type:	Date: February 2008					
AMMO Cost Elements		ID	FY 07			FY 08			FY 09		
		CD	Total Cost	Qty	Unit Cost	Total Cost	Qty	Unit Cost	Total Cost	Qty	Unit Cost
			\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000
<b>INACTIVE LINES AT ACTIVE PLANTS</b>											
Holston Army Ammunition Plant (AAP)			350			350			350		
Iowa AAP			515			493			536		
McAlester AAP			221			226			231		
Milan AAP			166			160			157		
Pine Bluff Arsenal			518			600			612		
Radford AAP			811			1000			750		
Riverbank AAP			1203			1926			2161		
Rock Island Arsenal						50			51		
Hawthorne Army Depot			600			576			771		
<b>SUBTOTAL</b>			<b>4384</b>			<b>5381</b>			<b>5619</b>		
<b>INACTIVE LINES AT SEMI-ACTIVE PLANTS</b>											
Mississippi AAP			340								
<b>SUBTOTAL</b>			<b>340</b>								
<b>Total:</b>			<b>4724</b>			<b>5381</b>			<b>5619</b>		

<b>Exhibit P-26, Maintenance of Inactive Industrial Facilities</b>				Appropriation / Budget Activity / Serial No: Procurement of Ammunition, Army/2/Ammunition production base support			Date: February 2008	
Inactive Lines at Active Plants		Facility: Holston Army Ammunition Plant (AAP)			Contractor: Ordnance Systems, Inc.			
<b>Funding</b>	<b>FY 2007</b>	<b>FY 2008</b>	<b>FY 2009</b>	<b>FY 2010</b>	<b>FY 2011</b>	<b>FY 2012</b>	<b>FY 2013</b>	
MAINTENANCE	350	350	350	350	350	350	350	
RECURRING								
ENVIRONMENTAL								
OTHER								
Description: FY 2009 procurement supports the care and maintenance of laid-away critical production facilities at Holston Army Ammunition Plant. This includes periodic inspections of equipment and buildings, corrective maintenance to maintain weather-tightness of buildings, preservation touchup, asbestos management, and minimum maintenance of specialized production equipment. These efforts are responsible for a fair share of overhead expenses, and also provide for the monitoring of modified caretaker facilities until they can be disposed.								
Inactive Lines at Active Plants		Facility: Iowa AAP			Contractor: American Ordnance			
<b>Funding</b>	<b>FY 2007</b>	<b>FY 2008</b>	<b>FY 2009</b>	<b>FY 2010</b>	<b>FY 2011</b>	<b>FY 2012</b>	<b>FY 2013</b>	
MAINTENANCE	147	152	154	156	158	160	162	
RECURRING	202	207	210	213	215	218	222	
ENVIRONMENTAL	166	171	172	174	177	179	181	
OTHER								
Description: FY 2009 procurement supports the care and maintenance of laid-away critical production facilities at Iowa Army Ammunition Plant. They include periodic inspections of equipment and buildings, corrective maintenance to maintain weather-tightness of buildings, preservation touchup, asbestos management, and minimum maintenance of specialized production equipment. These efforts are responsible for a fair share of overhead expenses, and also provides for the monitoring of excess facilities until they can be disposed. These efforts also provide for well monitoring at the inert landfill, trench 5, in order to comply with a signed consent agreement between the plant, State of Iowa, and Environmental Protection Agency (EPA).								
Inactive Lines at Active Plants		Facility: McAlester AAP			Contractor: Not Applicable			
<b>Funding</b>	<b>FY 2007</b>	<b>FY 2008</b>	<b>FY 2009</b>	<b>FY 2010</b>	<b>FY 2011</b>	<b>FY 2012</b>	<b>FY 2013</b>	
MAINTENANCE	113	116	119	122	125	128	149	
RECURRING	108	110	112	114	116	118	136	
ENVIRONMENTAL								
OTHER								
Description: FY 2009 procurement supports the care and maintenance of laid-away ammunition industrial facilities to include utilities, buildings, non-severable equipment, plant equipment, special tooling, and special test equipment being retained to support potential future requirements at McAlester Army Ammunition Plant. These projects also include a fair share of the recurring overhead costs such as grounds maintenance, fire protection, plant security, and administrative support.								
Inactive Lines at Active Plants		Facility: Milan AAP			Contractor: American Ordnance			
<b>Funding</b>	<b>FY 2007</b>	<b>FY 2008</b>	<b>FY 2009</b>	<b>FY 2010</b>	<b>FY 2011</b>	<b>FY 2012</b>	<b>FY 2013</b>	
MAINTENANCE	83	80	79	78	76	74	73	

<b>Exhibit P-26, Maintenance of Inactive Industrial Facilities</b>				Appropriation / Budget Activity / Serial No: Procurement of Ammunition, Army/2/Ammunition production base support			Date: February 2008	
RECURRING	33	32	31	31	30	29	28	
ENVIRONMENTAL	50	48	47	46	46	46	45	
OTHER								
Description: FY 2009 procurement supports the care and maintenance of laid-away critical production facilities at Milan Army Ammunition Plant. These activities include periodic inspections of equipment and buildings, corrective maintenance to maintain weather-tightness of buildings, preservation touchup of non-severable equipment, plant equipment, special tooling, and special test equipment being retained to support potential future requirements. They include asbestos management, minimum maintenance of specialized production equipment, and a fair share of the recurring overhead costs such as grounds maintenance, fire protection, plant security, and administrative support.								
Inactive Lines at Active Plants		Facility: Pine Bluff Arsenal			Contractor: Not Applicable			
<b>Funding</b>	<b>FY 2007</b>	<b>FY 2008</b>	<b>FY 2009</b>	<b>FY 2010</b>	<b>FY 2011</b>	<b>FY 2012</b>	<b>FY 2013</b>	
MAINTENANCE	233	310	317	320	327	335	342	
RECURRING	285	290	295	305	312	318	325	
ENVIRONMENTAL								
OTHER								
Description: FY 2009 procurement supports the care and maintenance of laid-away ammunition industrial facilities to include utilities, buildings, non-severable equipment, plant equipment, special tooling, and special test equipment being retained to support potential future requirements at Pine Bluff Arsenal. This project also includes a fair share of the recurring overhead costs such as grounds maintenance, fire protection, plant security, and administrative support.								
Inactive Lines at Active Plants		Facility: Radford AAP			Contractor: Alliant Techsystems, Inc.			
<b>Funding</b>	<b>FY 2007</b>	<b>FY 2008</b>	<b>FY 2009</b>	<b>FY 2010</b>	<b>FY 2011</b>	<b>FY 2012</b>	<b>FY 2013</b>	
MAINTENANCE	267	351	225	313	320	327	334	
RECURRING	496	600	450	626	639	653	668	
ENVIRONMENTAL	48	49	75	104	106	109	111	
OTHER								
Description: FY 2009 procurement supports the care and maintenance of laid-away critical production facilities at Radford Army Ammunition Plant. They include periodic inspections of equipment and buildings, corrective maintenance to maintain weather-tightness of buildings, preservation touchup, asbestos management, and minimum maintenance of specialized production equipment. These efforts are responsible for a fair share of overhead expenses, and also provides for the monitoring of excess facilities until they can be disposed.								
Inactive Lines at Active Plants		Facility: Riverbank AAP			Contractor: Norris Industries (NI)			
<b>Funding</b>	<b>FY 2007</b>	<b>FY 2008</b>	<b>FY 2009</b>	<b>FY 2010</b>	<b>FY 2011</b>	<b>FY 2012</b>	<b>FY 2013</b>	
MAINTENANCE	60	96	108	69	64			
RECURRING	1131	1810	2031	1297	1198			
ENVIRONMENTAL	12	20	22	14	13			
OTHER								
Description: FY 2009 procurement supports the care and maintenance of laid-away ammunition industrial facilities to include utilities, buildings, non-severable equipment, plant equipment, special tooling, and special test equipment at Riverbank AAP. These projects also include a fair share of the recurring overhead costs such as grounds maintenance, fire protection, plant security, and administrative support. Efforts will also cover the costs								



<b>Exhibit P-26, Maintenance of Inactive Industrial Facilities</b>	Appropriation / Budget Activity / Serial No:	Date:
	Procurement of Ammunition, Army/2/Ammunition production base support	February 2008

associated with Riverbank AAP's Resource Conservation and Recovery Act (RCRA) permit renewal, which is mandated by environmental regulations.

Inactive Lines at Active Plants		Facility: Rock Island Arsenal			Contractor:		
<b>Funding</b>	<b>FY 2007</b>	<b>FY 2008</b>	<b>FY 2009</b>	<b>FY 2010</b>	<b>FY 2011</b>	<b>FY 2012</b>	<b>FY 2013</b>
MAINTENANCE		50	51	52	53	54	55
RECURRING							
ENVIRONMENTAL							
OTHER							

Description: FY 2009 procurements supports the storage and maintenance of equipment transferred from Mississippi Army Ammunition Plant (AAP), as a result of Base Realignment and Closure (BRAC).

Inactive Lines at Active Plants		Facility: Hawthorne Army Depot			Contractor: Day and Zimmerman		
<b>Funding</b>	<b>FY 2007</b>	<b>FY 2008</b>	<b>FY 2009</b>	<b>FY 2010</b>	<b>FY 2011</b>	<b>FY 2012</b>	<b>FY 2013</b>
MAINTENANCE	600	576	771	324	330	337	344
RECURRING							
ENVIRONMENTAL							
OTHER							

Description: FY 2009 procurement supports the maintenance and long term storage of reserved unique production equipment with long replacement lead times at Hawthorne Army Depot.

Inactive Lines at Active Plants		Facility: Mississippi AAP			Contractor: Mason Technologies, Incorporated		
<b>Funding</b>	<b>FY 2007</b>	<b>FY 2008</b>	<b>FY 2009</b>	<b>FY 2010</b>	<b>FY 2011</b>	<b>FY 2012</b>	<b>FY 2013</b>
MAINTENANCE	223						
RECURRING	117						
ENVIRONMENTAL							
OTHER							

Description: Procurement supports the care and maintenance of laid-away ammunition industrial facilities to include utilities, buildings, non-severable equipment, plant equipment, special tooling, and special test equipment being retained to support potential future requirements at Mississippi Army Ammunition Plant. They also include a fair share of the recurring overhead costs such as grounds maintenance, environmental compliance, fire protection, plant security, and administrative support. This effort is required in order to provide annual maintenance of reserve grenade metal parts production capabilities.

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

Date: February 2008

Appropriation / Budget Activity / Serial No:  
Procurement of Ammunition, Army / 2 / Ammunition production base support

P-1 Item Nomenclature  
Conventional Munitions Demilitarization, All Types (EP1700)

Program Elements for Code B Items:

Code:

Other Related Program Elements:

	Prior Years	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013	To Complete	Total Prog
Proc Qty										
Gross Cost	1208.7	93.8	134.3	144.3	148.2	152.0	166.8	145.3		2193.5
Less PY Adv Proc										
Plus CY Adv Proc										
Net Proc P1	1208.7	93.8	134.3	144.3	148.2	152.0	166.8	145.3		2193.5
Initial Spares										
Total Proc Cost	1208.7	93.8	134.3	144.3	148.2	152.0	166.8	145.3		2193.5
Flyaway U/C										
Weapon System Proc U/C										

**Description:**

The conventional munition demilitarization program funds the demilitarization and resource recovery of conventional ammunition and demilitarizes missiles and missile components that are unserviceable, obsolete or excess to requirements. This program funds the movement of munitions for demilitarization and technical support for demilitarization projects at various installations, and the commercial contracts for resource recovery/demilitarization of excess, obsolete and unserviceable munitions. The program also funds demilitarization of those munition assets that have become unsafe for continued storage.

<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 Munitions Demilitarization, All Types (EP1700)			Weapon System Type:		Date: February 2008	
AMMO Cost Elements		ID CD	FY 07			FY 08			FY 09		
			Total Cost	Qty	Unit Cost	Total Cost	Qty	Unit Cost	Total Cost	Qty	Unit Cost
			\$000	Tons	\$000	\$000	Tons	\$000	\$000	Tons	\$000
CONVENTIONAL MUNITIONS DEMIL, ALL TYPES											
EP1800-Conventional Ammo Demil (SMCA)			72690			94528			80505		
EP1801-Oth Non-Army Svcs Demil(Non-SMCA)			2379			2527			2756		
EP1802-Army Missile Demil			17562			35933			59689		
EP1803-Non-Army Missile Demil			1191			1354			1377		
<b>Total:</b>			<b>93822</b>			<b>134342</b>			<b>144327</b>		

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

Date: February 2008

Appropriation / Budget Activity / Serial No:  
Procurement of Ammunition, Army / 2 / Ammunition production base support

P-1 Item Nomenclature  
CONVENTIONAL AMMUNITION DEMILITARIZATION (SMCA) (EP1800)

Program Elements for Code B Items:

Code:

Other Related Program Elements:

	Prior Years	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013	To Complete	Total Prog
Proc Qty										
Gross Cost	1186.4	72.7	94.5	80.5	82.5	87.1	103.2	79.5		1786.3
Less PY Adv Proc										
Plus CY Adv Proc										
Net Proc P1	1186.4	72.7	94.5	80.5	82.5	87.1	103.2	79.5		1786.3
Initial Spares										
Total Proc Cost	1186.4	72.7	94.5	80.5	82.5	87.1	103.2	79.5		1786.3
Flyaway U/C										
Weapon System Proc U/C										

**Description:**

The conventional ammunition demilitarization (demil) program funds the demil and disposal of conventional ammunition that is unserviceable, obsolete, unsafe, or excess to requirements. The program accomplishes demil using closed disposal technologies with primary emphasis on resource recovery and recycling, and open burning/open detonation (OB/OD) processes. This program funds movement of ammunition for demil and technical support for demil projects at various installations and the commercial contracts for closed disposal of demil ammunition.

**Justification:**

In addition to the demil and disposal of ammunition that is unserviceable, obsolete, or excess to requirements, the demilitarization program also supports readiness as a source of supply for components required in new production. Critical explosives such as TNT and Tritonal, and components such as depleted uranium penetrators and supplementary charges are removed during demilitarization and reused in new production. Additionally, packaging material is recovered from items demilled for reuse in new production. The continuing requirements to store munitions to be demilitarized have a direct negative impact on the Army's ability to effectively support force projection. Demilitarization stocks impose inefficiency on mobility operations. Outloading is inefficient and resources are wasted. There are increased security considerations as ammunition stocks are stored outside where they are vulnerable to security breaches. With environmental regulations becoming increasingly stringent, indefinitely storing obsolete item will result in ever increasing demilitarization liabilities.

As of 3 November 2007 the conventional ammunition demilitarization account contained over 467,553 tons of ammunition in CONUS wholesale storage locations. In Fiscal Year (FY) 2007 54,150 tons of ammunition were demilitarized and 111,801 tons were generated into the account. Accomplishments over the next five years should average 40,000 tons per year, while generations should average 49,000 tons per year. Additionally, as part of the War Reserve Stocks Allies-Korea (WRSA-K) drawdown, an additional 80,000 tons of ammunition destined for demilitarization is planned for retrograde to CONUS within the next five years. At this rate the demilitarization account continues to grow.

<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 AMMUNITION DEMILITARIZATION (SMCA) (EP1800)			Weapon System Type:		Date: February 2008	
<b>AMMO Cost Elements</b>		ID CD	<b>FY 07</b>			<b>FY 08</b>			<b>FY 09</b>		
			Total Cost	Qty	Unit Cost	Total Cost	Qty	Unit Cost	Total Cost	Qty	Unit Cost
			\$000	Tons	\$000	\$000	Tons	\$000	\$000	Tons	\$000
<b>CONVENTIONAL AMMO DEMIL (SMCA)</b>											
WP/PWP	CP				2000	1720	1				
INCENDIARY MUNITIONS	FI	104	70	1							
PYROTECHNICS/ILLUMINATION/NON FRAG	FP	1282	749	2				851	1102	1	
HE COMPONENTS/DEVICES	HA	752	767	1	2000			232	349	1	
HE BOMBS	HB	2292	2607	1							
HE CARTRIDGES	HC	16277	13109	1				3176	4574	1	
HE EXPLOSIVE D	HD	8980	4000	2							
HE DONOR (RESOURCE RECOVERY)	HD				132	26	5				
HE DEPTH CHARGES	HH							157	205	1	
HE ICM/CBU AND SUBMUNITIONS WTV	HI	7796	4375	2	6898	6269	1	5522	8010	1	
HE PROJECTILES	HP	2121	3014	1	3062	3302	1	5737	7818	1	
HE ROCKETS	HR	75	76	1							
TORPEDOES	HT							674	1000		
HE LAND MINES	HZ	6171	4302	1	5952	3278	2	158	250		
INERT	I				1452	2557	1				
BULK PROPELLANT	PB	571	1511								
PROPELLANT CHARGES/INCREMENT	PC	1139	1362	1				1293	1514		
PROPELLANT MUNITIONS/COMPONENTS	PD	1933	1833	1	5242	2510	2	4197	4411	1	
SMALL ARMS AMMO THRU 20MM	SA	653	321	2							
INCINERABLE MUNITIONS	SC	2812	1810	2							
FUZES	SF	2252	2836	1	1795	1000	2	1214	1504	1	
MULTIPLE FAMILY	MU	10080			60174	27082	2	53269			
OCONUS DEMIL	OC	3798			4759			4025			
OTHER DEMIL	O	3602									
DEPLETED URANIUM	DU				1062	290	4				
<b>Total:</b>			<b>72690</b>		<b>94528</b>			<b>80505</b>			

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

Date: February 2008

Appropriation / Budget Activity / Serial No:  
Procurement of Ammunition, Army / 2 / Ammunition production base support

P-1 Item Nomenclature  
Army Missile Demilitarization (EP1802)

Program Elements for Code B Items:

Code:

Other Related Program Elements:

	Prior Years	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013	To Complete	Total Prog
Proc Qty										
Gross Cost	19.2	17.6	35.9	59.7	59.8	59.7	56.6	58.7		367.1
Less PY Adv Proc										
Plus CY Adv Proc										
Net Proc P1	19.2	17.6	35.9	59.7	59.8	59.7	56.6	58.7		367.1
Initial Spares										
Total Proc Cost	19.2	17.6	35.9	59.7	59.8	59.7	56.6	58.7		367.1
Flyaway U/C										
Weapon System Proc U/C										

**Description:**

The Army missile demilitarization (demil) program funds the demil and disposal of Army missiles and missile components (non-SMCA) that are unserviceable, obsolete, unsafe, or excess to requirements. The program accomplishes demil using closed disposal technologies with primary emphasis on resource recovery and recycling and open burning/open detonation (OB/OD) processes. This program funds movement of ammunition for demil, program execution and technical support for demil projects at various installations.

**Justification:**

FY 2009 program supports 1) demilitarization of Army tactical missiles and components (HAWK, Stinger, Hellfire, Dragon and PATRIOT) using Open Burning and Open Detonation (OB/OD) techniques, 2) demilitarization of Basic and Extended Range and TOW II missiles by Closed Disposal (CD)/mechanical Resource Recovery and Recycling (R3) techniques, 3) Low Rate Initial Production (LRIP) operation of Missile Recycling Center, Energetics Processing Module (EPM) used for the processing and recycling of missile energetics, and 4) the conduct of the production scale Risk Reduction Program for MLRS using CD/R3 technologies. The missile and missile component demilitarization stockpile is increasing due to 1) inventory aging, 2) Army modernization efforts, and 3) serviceability issues caused by increased deployments. The stockpile today is over 100,000 missiles and missile components that will grow to over 600,000 by FY 2014. Currently, the Army uses the destructive method of OB/OD to demilitarize tactical missiles; however, pursuant to Executive Order 13101, "Greening the Government", an aggressive R3 integrated program has been established that requires environmentally safe and cost effective alternatives to OB/OD processes. FY 2009 funding will be used for 1) OB/OD execution, 2) CD/R3 demilitarization using mechanical segregation technologies for TOW missiles, 3) CD/R3 demilitarization using chemical processing technologies for TOW missile energetics, 4) CD/R3 demilitarization of MLRS Rockets, 5) fabrication, installation, testing of production tooling, and renovation/repair of demilitarization facilities, 6) conduct improvements of production scale Risk Reduction Program for MLRS, PATRIOT and ATACMS using CD/R3 technologies, and 7) optimization of the CD/R3 process to include analysis to improve reuse and recertification of R3 materials for military and commercial applications. The operational R3 production facilities will allow the Army to decrease its dependence on OB/OD. Demilitarization using CD/R3 techniques will provide the Army with the capability to recycle/reuse much of the recovered materials for military and commercial applications.

<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: Army Missile Demilitarization (EP1802)			Weapon System Type:		Date: February 2008	
<b>AMMO Cost Elements</b>		ID CD	<b>FY 07</b>			<b>FY 08</b>			<b>FY 09</b>		
			Total Cost	Qty	Unit Cost	Total Cost	Qty	Unit Cost	Total Cost	Qty	Unit Cost
			\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000
<b>Army Missile Demil</b>											
MLRS		EF	2550	5400		5909	4494	1	30950	15000	
TOW CD/R3		E1	7301	10000		8076	12000		8333	12420	
SPARTAN		EV	713	22		2733	24				
HELLFIRE			206	985		29	275		790	7291	
DRAGON		E5	264	2530		327	3000		379	3500	
PATRIOT		D6	42	100		104	200		372	300	
HAWK Motors		AD	83	200		210	254		165	200	
Nike Herc									413	400	
STINGER		DR	188	900		389	1879		522	2530	
Missile Components			3391	23572		5533	53444		5586	54121	
ATACMS		E8	324	259	1				598	483	
MRC Production Engr and Fabrication						1000					
MRC Energetic Processing Module (EPM)			1500	1	1500						
Technology Facilitization			1000	1	1000	11256			11282		
Javelin						10	50		41	200	
Little John Motors									258	250	
Chaparral						357	728				
<b>Total:</b>			<b>17562</b>			<b>35933</b>			<b>59689</b>		

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

Date: February 2008

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 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013	To Complete	Total Prog
Proc Qty										
Gross Cost	326.0	2.8	2.9	3.0	3.1	3.2	3.3	3.3		347.6
Less PY Adv Proc										
Plus CY Adv Proc										
Net Proc P1	326.0	2.8	2.9	3.0	3.1	3.2	3.3	3.3		347.6
Initial Spares										
Total Proc Cost	326.0	2.8	2.9	3.0	3.1	3.2	3.3	3.3		347.6
Flyaway U/C										
Weapon System Proc U/C										

**Description:**

The Armament Retooling and Manufacturing Support (ARMS) program reuses idle capacity at active and semi-active Government-Owned, Contractor-Operated (GOCO) Army Ammunition Plants (AAPs) and GOCO Army Depots through commercialization. Congress enacted this program in Fiscal Year (FY) 1993 Defense Authorization Act (Public Law (PL) 102-484) and codified in FY 2000 (10 U.S.C.4551-4555). ARMS uses financial incentives for facility strategic reuse plans; marketing plans; building modification; equipment relocation, alteration, or consolidation; and environmental baseline studies to encourage commercial use of underutilized Army assets. The ARMS objectives include sustaining critical manufacturing capabilities and critical skills, reducing facility operating and maintenance costs, decreasing product cost, providing opportunities for small business, and accelerating private sector economic development, employment and investment.

**Justification:**

FY 2009 procurement funds financial incentives to attract revenue-producing tenants to locate on AAPs. The ARMS Program reduces Army cost of ownership and maintains critical munitions industrial base skills. Revenues collected are applied to reduce overhead and total annual operating costs. The ARMS program allows the Army to manage portions of the ammunition infrastructure as a commercial business. This management concept has allowed the Army to apply overhead costs across multiple commercial contracts to reduce operating costs.



<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: February 2008		
<b>AMMO Cost Elements</b>	ID	<b>FY 07</b>			<b>FY 08</b>			<b>FY 09</b>		
	CD	Total Cost	Qty	Unit Cost	Total Cost	Qty	Unit Cost	Total Cost	Qty	Unit Cost
		\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000
Financial Incentives		2132			2289			2369		
Administrative Support		625			635			645		
<b>TOTAL</b>		<b>2757</b>			<b>2924</b>			<b>3014</b>		
<b>Total:</b>		<b>2757</b>			<b>2924</b>			<b>3014</b>		

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

Date: February 2008

Appropriation / Budget Activity / Serial No: Procurement of Ammunition, Army / 7 / Re-estimate of Guar Loan  
 P-1 Item Nomenclature: RE-ESTIMATE OF GUAR LOAN (EP2520)

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

	Prior Years	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013	To Complete	Total Prog
Proc Qty										
Gross Cost		20.3	26.7							47.1
Less PY Adv Proc										
Plus CY Adv Proc										
Net Proc P1		20.3	26.7							47.1
Initial Spares										
Total Proc Cost		20.3	26.7							47.1
Flyaway U/C										
Weapon System Proc U/C										

**Description:**  
 The Armament Retooling and Manufacturing Support (ARMS) program reuses idle capacity at active and semi-active Government-Owned, Contractor-Operated (GOCO) Army Ammunition Plants (AAPs) and GOCO Depots through commercialization. Congress enacted this program in Fiscal Year (FY) 1993 Defense Authorization Act (Public Law (PL) 102-484) and codified in 2000 (10 U.S.C. 434). ARMS uses financial incentives, such as facility strategic reuse plans; marketing plans; building modification; equipment relocation, alteration, or consolidation; and environmental baseline studies. The ARMS objectives include reducing facility operating costs, decreasing product cost, lowering facility maintenance, providing opportunities for small business, retaining critical skills, and sustaining economic development.

**Justification:**  
 Funds provided for loan guarantee to pay for defaults as required under the ARMS Loan Guarantee Program.

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

Date: February 2008

Appropriation / Budget Activity / Serial No:  
Procurement of Ammunition, Army / 8 / Interest on re-estimate

P-1 Item Nomenclature  
INTEREST ON RE-ESTIMATE (EP2510)

Program Elements for Code B Items:

Code:

Other Related Program Elements:

	Prior Years	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013	To Complete	Total Prog
Proc Qty										
Gross Cost		5.9								5.9
Less PY Adv Proc										
Plus CY Adv Proc										
Net Proc P1		5.9								5.9
Initial Spares										
Total Proc Cost		5.9								5.9
Flyaway U/C										
Weapon System Proc U/C										

**Description:**

The Armament Retooling and Manufacturing Support (ARMS) program reuses idle capacity at active and semi-active Government-Owned, Contractor-Operated (GOCO) Army Ammunition Plants (AAPs) and GOCO Depots through commercialization. Congress enacted this program in Fiscal Year (FY) 1993 Defense Authorization Act (Public Law (PL) 102-484) and codified in 2000 (10 U.S.C. 434). ARMS uses financial incentives, such as facility strategic reuse plans; marketing plans; building modification; equipment relocation, alteration, or consolidation; and environmental baseline studies. The ARMS objectives include reducing facility operating costs, decreasing product cost, lowering facility maintenance, providing opportunities for small business, retaining critical skills, and sustaining economic development.

**Justification:**

Funds provided for loan guarantee to pay for defaults as required under the ARMS Loan Guarantee Program.