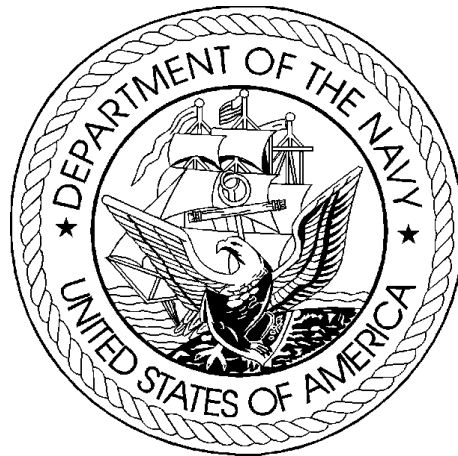


DEPARTMENT OF THE NAVY  
FISCAL YEAR (FY) 2006/FY 2007  
BUDGET ESTIMATES



JUSTIFICATION OF ESTIMATES  
FEBRUARY 2005

PROCUREMENT OF AMMUNITION,  
NAVY AND MARINE CORPS  
BUDGET ACTIVITY 2

## UNCLASSIFIED

DEPARTMENT OF THE NAVY  
FY 2006 PROCUREMENT PROGRAM

EXHIBIT P-1

APPROPRIATION: 1508N PROCUREMENT OF AMMO, NAVY &amp; MARINE CORPS

DATE: FEBRUARY 2005

MILLIONS OF DOLLARS

LINE NO	ITEM NOMENCLATURE	IDENT CODE	FY 2004		FY 2005		FY 2006		S E C
			QUANTITY	COST	QUANTITY	COST	QUANTITY	COST	
BUDGET ACTIVITY 02: PROC AMMO, MC									
-----									
MARINE CORPS AMMUNITION									
19	5.56 MM, ALL TYPES	A		22.6		35.0		37.5	U
20	7.62 MM, ALL TYPES	A		6.1		8.7		13.7	U
21	LINEAR CHARGES, ALL TYPES	A		21.3		17.7		38.8	U
22	.50 CALIBER	A		8.1		1.9		34.9	U
23	40 MM, ALL TYPES	A		10.1		25.0		58.1	U
24	60MM, ALL TYPES	A		10.8		12.4		16.2	U
25	81MM, ALL TYPES	A		18.8		25.2		17.2	U
26	120MM, ALL TYPES	A		39.2		15.3		7.2	U
27	CTG 25MM, ALL TYPES	A		3.7		3.7		2.1	U
28	9 MM ALL TYPES	A		2.6		7.6			U
29	GRENADERS, ALL TYPES	A		7.0		5.0		5.3	U
30	ROCKETS, ALL TYPES	A		19.4		21.3			U
31	ARTILLERY, ALL TYPES	A		52.0		55.4		31.8	U
32	EXPEDITIONARY FIGHTING VEHICLE	A				2.5		5.7	U
33	DEMOLITION MUNITIONS, ALL TYPES	A		5.8		3.3		2.4	U
34	FUZE, ALL TYPES	A		4.3		13.8		3.6	U
35	NON LETHALS	B		3.7		1.1		1.1	U
36	AMMO MODERNIZATION	A		4.9		7.1		7.4	U

UNCLASSIFIED

PAGE N-3

UNCLASSIFIED

DEPARTMENT OF THE NAVY  
FY 2006 PROCUREMENT PROGRAM

EXHIBIT P-1

APPROPRIATION: 1508N PROCUREMENT OF AMMO, NAVY & MARINE CORPS

DATE: FEBRUARY 2005

		MILLIONS OF DOLLARS						
LINE		IDENT	FY 2004		FY 2005		FY 2006	S
NO	ITEM NOMENCLATURE	CODE	QUANTITY	COST	QUANTITY	COST	QUANTITY	E
----	-----	----	-----	-----	-----	-----	-----	C
37	ITEMS LESS THAN \$5 MILLION	A		3.4		1.7	18.2	U
				-----		-----	-----	
	TOTAL PROC AMMO, MC			243.8		263.7	301.3	
				-----		-----	-----	
	TOTAL PROCUREMENT OF AMMO, NAVY & MARINE CORPS			243.8		263.7	301.3	

UNCLASSIFIED

**Fiscal Year 2006 Budget Estimates  
Budget Appendix Extract Language**

**PROCUREMENT OF AMMUNITION, NAVY and MARINE CORPS  
(PANMC)**

For construction, procurement, production, and modification of ammunition, and accessories therefor; specialized equipment and training devices; expansion of public and private plants, including ammunition facilities, authorized by [section 2854 of title 10, United States Code] *law*, and the land necessary therefor, for the foregoing purposes, and such lands and interests therein, may be acquired, and construction prosecuted thereon prior to approval of title; and procurement and installation of equipment, appliances, and machine tools in public and private plants; reserve plant and Government and contractor-owned equipment layaway; and other expenses necessary for the foregoing purposes, [\$888,340,000] \$872,849,000, to remain available for obligation until September 30, [2007] 2008, of which \$19,562,000 shall be available for the Navy Reserve and Marine Corps Reserve. (*Department of Defense Appropriations Act, 2005.*)

Exhibit P-40, Budget Item Justification	Date: FEBRUARY 2005
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Appropriation Code/Budget Activity/Serial Number: Procurement of Ammunition, Navy and Marine Corps/2/Ammunition	P-1 Item Nomenclature: (101000) 5.56MM, ALL TYPES
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Program Element for Code B Items:	Other Related Program Elements
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	ID Code	FY2004	FY2005	FY2006	FY2007	FY2008	FY2009	FY2010	FY2011	To Complete	Total Program
Proc Qty											
Gross Cost	A	22.618	34.993	37.452	29.999	30.256	31.634	6.646	35.837		229.435

Description: The Cartridge, 5.56mm Jacketed Frangible (DODIC AA40) is intended to penetrate soft targets with the projectile breaking up on impact with hard targets. The DODIC AA40 consists of a brass cartridge case, a primer and propellant composition. The Jacketed Frangible cartridge contains a non-toxic, copper, tungsten powder and nylon binder designed to eliminate airborne lead and concerns for disposal. The copper alloy jacket eliminates barrel fouling and gas cutting into barrel and the double base propellant is clean burning. The Cartridge, 5.56mm Ball M855 10/Clip Commercial Pack environmentally friendly (DODIC AA45) will be an alternate to (DODIC A059) primary ball ammunition for the M16A2 Rifle and can be used in the M249 Squad Automatic Weapon (SAW) with a magazine. The M855 Cartridge consists of a brass case, a primer, propellant, and a bullet. The projectile is a pressed tungsten/tin, tungsten/nylon mix. This current cartridge contains a lead primer.

The Cartridge, 5.56mm Special Match Molydenum Coated (DODIC: AA67). This cartridge is in support of the Marine Corps Competition in Arms Program.

The Cartridge, 5.56mm Ball M855 10/Clip (DODIC A059) is the primary ball ammunition for the M16A2 Rifle and can be used in the M249 Squad Automatic Weapon (SAW) with a magazine. The M855 Cartridge consists of a brass case, a primer, propellant, and a bullet.

The Cartridge, 5.56mm Dummy M199 (DODIC A060) is used in the M16 Rifle series for training personnel in loading or unloading, simulating fire and rifle inspection. The M199 Cartridge contains neither primer nor propellant. The cartridge case has six longitudinal corrugations impressed upon the case for identification and a plain bullet tip.

The Cartridge, 5.56mm Ball M855 Linked (DODIC A062) is used in the M249 Squad Automatic Weapon (SAW) Machine Gun and is intended for training during dry conditions where tracer ammunition is restricted from use. The DODIC A062 is linked 5.56mm NATO ammunition. A green tip on the projectile of the M855 Ball ammunition identifies the cartridge. The M27 Link is used to connect the 200 round belts.

The Cartridge, 5.56mm 4 Ball M855/1 Tracer M856 Linked (DODIC A064) is the standard ammunition used for combat and training in the M249 Squad Automatic Weapon (SAW) Machine Gun. These cartridges are linked with M27 Links. The M855 and M856 cartridges consist of a brass cartridge case, a primer and propellant. The M855 Ball cartridge has a green bullet tip for identification. The M856 Tracer cartridge has an orange bullet tip for identification. The M856 Tracer cartridge is intended to permit visible observation of the bullet's in-flight path or trajectory to the point of impact, target designation, or range estimation.

The Cartridge, 5.56mm Plastic Ball Practice M862 (DODIC A065) is a short range cartridge used for training purposes with the M16 and M4 Series Rifles adapted with the M2 bolt. The M862 Cartridge consists of a brass case, a primer, propellant composition, and a plastic projectile made of a polycarbonate blend.

The Cartridge, 5.56mm Blank M200 Linked (DODIC A075) is used in the M249 Squad Automatic Weapon (SAW) Machine Gun. It is designed to simulate firing during training exercises. The M200 Cartridge is linked with the M27 Metallic Link. The cartridge is identified by a rosette crimp closure of the cartridge mouth.

The Cartridge, 5.56mm Blank M200 Single Round (DODIC A080) is used in the M16A2 Rifle and can be used in the M249 Squad Automatic Weapon (SAW) Machine Gun with a magazine. It is designed to simulate firing during training exercises. The cartridge can be identified by a rosette crimp closure of the cartridge mouth.

Exhibit P-40a, Budget Item Justification for Aggregated Items	Date: FEBRUARY 2005
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Appropriation Code/Budget Activity/Serial Number: Procurement of Ammunition, Navy and Marine Corps/2/Ammunition	P-1 Item Nomenclature: (101000) 5.56MM, ALL TYPES
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	ID Code	FY2004	FY2005	FY2006	FY2007					To Complete	Total
CTG, 5.56MM BALL M855 (DODIC AA40)	A	0.425	0.000	0.000	0.000						
QTY		1,574,074	0	0	0						
CTG, 5.56MM MOLLY COATED (DODIC AA67)	A	0.000	1.237	0.721	0.721						
QTY		0	2,474,000	1,360,377	1,243,103						
<b>P-40a Total</b>		0.425	1.237	0.721	0.721						

Exhibit P-5, Cost Analysis		Weapon System			Date: FEBRUARY 2005							
Appropriation Code/Budget Activity/Serial Number: Procurement of Ammunition, Navy and Marine Corps/2/Ammunition				ID Code: A	P-1 Line Item Nomenclature: (101000) 5.56MM, ALL TYPES							
WBS COST ELEMENTS	FY04			FY05			FY06			FY07		
	Total Cost	Qty	Unit Cost	Total Cost	Qty	Unit Cost	Total Cost	Qty	Unit Cost	Total Cost	Qty	Unit Cost
<b>HARDWARE:</b>												
<b>CTG, 5.56MM BALL M855 (DODIC A059)</b>												
LOAD ASSEMBLY & PACK (LAP)	16.084	54,209,375	0.30	17.688	47,695,000	0.37	26.371	113,772,000	0.23	26.334	113,612,000	0.23
BOX METAL M2A1 (EACH)	0.719	81,268	8.85	0.791	71,502	11.06	1.179	170,561	6.91	1.177	170,321	6.91
<b>CTG, 5.56MM DUMMY (DODIC A060)</b>												
LOAD ASSEMBLY & PACK (LAP)							0.027	108,000	0.25	0.015	57,692	0.26
<b>CTG, 5.56MM BALL LINKED (DODIC A062)</b>												
LOAD ASSEMBLY & PACK (LAP)				6.987	24,953,125	0.28	0.571	1,978,787	0.29			
<b>CTG, 5.56MM 4 AND 1 LINKED (DODIC A064)</b>												
LOAD ASSEMBLY & PACK (LAP)	0.361	1,121,212	0.33				1.131	3,311,428	0.34			
<b>CTG, 5.56MM BLUE TIP PLASTIC (DODIC A065)</b>												
LOAD ASSEMBLY & PACK (LAP)				0.498	1,069,230	0.48	0.513	4,396,153	0.48			
<b>CTG, 5.56MM BLANK LINKED (DODIC A075)</b>												
LOAD ASSEMBLY & PACK (LAP)	2.237	10,652,173	0.21	1.687	8,034,782	0.21	1.227	5,376,000	0.23			
<b>CTG, 5.56MM BLANK (DODIC A080)</b>												
LOAD ASSEMBLY & PACK (LAP)	1.824	20,260,000	0.09	3.119	34,650,000	0.09	1.799	18,172,727	0.10			
<b>CTG, 5.56MM GREEN AMMO (DODIC AA45)</b>												
LOAD ASSEMBLY & PACK (LAP)				0.705	1,194,029	0.59	0.723	2,000,000	0.36	0.758	2,047,619	0.37
<b>PRODUCT</b>												
INDUSTRIAL STOCK SUPPORT	0.3			0.57			0.489			0.198		
INTERIM TRANSPORTATION	0.047			0.056			0.284			0.069		
PRODUCTION ENGINEERING	0.289			0.897			0.552			0.328		
QUALITY ASSURANCE	0.332			0.429			0.629			0.334		
ACCEPTANCE TESTING				0.329			1.236			0.065		
<b>P-5 TOTAL</b>	<b>22.193</b>			<b>33.756</b>			<b>36.731</b>			<b>29.278</b>		

Exhibit P-5a, Procurement History and Planning	Weapon System	Date: FEBRUARY 2005
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Appropriation Code/Budget Activity/Serial Number: Procurement of Ammunition, Navy and Marine Corps/2/Ammunition	P-1 Line Item Nomenclature: (101000) 5.56MM, ALL TYPES
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WBS COST ELEMENTS	Qty	Unit Cost	Location of PCO	Contract Method and Type	Contractor and Location	RFP Issue Date	Award Date	Date of First Delivery	Tech Data Available Now?	Date Revisions Available
<b>CTG, 5.56MM BALL M855 (DODIC A059)</b>										
LOAD ASSEMBLY & PACK (LAP)										
FY 2004	54,209,375	0.30	JMC, ROCK ISLAND, IL	SS/FP	ALLIANT TECH, INDEP, MO	OCT 03	JAN 04	OCT 04	YES	
FY 2005	47,695,000	0.37	JMC, ROCK ISLAND, IL	SS/FP	ALLIANT TECH, INDEP, MO	OCT 04	JAN 05	OCT 05	YES	
FY 2006	113,772,000	0.23	JMC, ROCK ISLAND, IL	SS/FP	ALLIANT TECH, INDEP, MO	UNKNOWN	JAN 06	OCT 06	YES	
FY 2007	113,612,000	0.23	JMC, ROCK ISLAND, IL	SS/FP	ALLIANT TECH, INDEP, MO	UNKNOWN	JAN 07	OCT 07	YES	
BOX METAL M2A1 (EACH)										
FY 2004	81,268	8.85	JMC, ROCK ISLAND, IL	SS/FP	ALLIANT TECH, INDEP, MO	OCT 03	JAN 04	OCT 04	YES	
FY 2005	71,502	11.06	JMC, ROCK ISLAND, IL	SS/FP	ALLIANT TECH, INDEP, MO	OCT 04	JAN 05	OCT 05	YES	
FY 2006	170,561	6.91	JMC, ROCK ISLAND, IL	SS/FP	ALLIANT TECH, INDEP, MO	UNKNOWN	JAN 06	OCT 06	YES	
FY 2007	170,321	6.91	JMC, ROCK ISLAND, IL	SS/FP	ALLIANT TECH, INDEP, MO	UNKNOWN	JAN 07	OCT 07	YES	
<b>CTG, 5.56MM DUMMY (DODIC A060)</b>										
LOAD ASSEMBLY & PACK (LAP)										
FY 2006	108,000	0.25	JMC, ROCK ISLAND, IL	SS/FP	ALLIANT TECH, INDEP, MO	UNKNOWN	MAR 06	OCT 06	NO	
FY 2007	57,692	0.26	JMC, ROCK ISLAND, IL	SS/FP	ALLIANT TECH, INDEP, MO	UNKNOWN	MAR 07	OCT 07	NO	
<b>CTG, 5.56MM BALL LINKED (DODIC A062)</b>										
LOAD ASSEMBLY & PACK (LAP)										
FY 2005	24,953,125	0.28	JMC, ROCK ISLAND, IL	SS/FP	ALLIANT TECH, INDEP, MO	OCT 04	MAR 05	OCT 05	YES	
FY 2006	1,978,787	0.29	JMC, ROCK ISLAND, IL	SS/FP	ALLIANT TECH, INDEP, MO	UNKNOWN	MAR 06	OCT 06	YES	
<b>CTG, 5.56MM 4 AND 1 LINKED (DODIC A064)</b>										
LOAD ASSEMBLY & PACK (LAP)										
FY 2004	1,121,212	0.33	JMC, ROCK ISLAND, IL	SS/FP	ALLIANT TECH, INDEP, MO	OCT 03	JAN 04	OCT 04	YES	
FY 2006	3,311,428	0.34	JMC, ROCK ISLAND, IL	SS/FP	ALLIANT TECH, INDEP, MO	UNKNOWN	JAN 06	OCT 04	YES	
<b>CTG, 5.56MM BLUE TIP PLASTIC (DODIC A065)</b>										
LOAD ASSEMBLY & PACK (LAP)										
FY 2005	1,038,461	0.48	JMC, ROCK ISLAND, IL	SS/FP	ALLIANT TECH, INDEP, MO	OCT 04	MAR 05	MAR 06	YES	
FY 2006	1,069,230	0.48	JMC, ROCK ISLAND, IL	SS/FP	ALLIANT TECH, INDEP, MO	UNKNOWN	MAR 06	MAR 07	YES	



Exhibit P-5a, Procurement History and Planning				Weapon System			Date: FEBRUARY 2005				
Appropriation Code/Budget Activity/Serial Number: Procurement of Ammunition, Navy and Marine Corps/2/Ammunition				P-1 Line Item Nomenclature: (101000) 5.56MM, ALL TYPES							
WBS COST ELEMENTS	Qty	Unit Cost	Location of PCO	Contract Method and Type	Contractor and Location	RFP Issue Date	Award Date	Date of First Delivery	Tech Data Available Now?	Date Revisions Available	
<b>CTG, 5.56MM BLANK LINKED (DODIC A075)</b>											
LOAD ASSEMBLY & PACK (LAP)											
<b>FY 2004</b>	10,652,173	0.21	JMC, ROCK ISLAND, IL	SS/FP	ALLIANT TECH, INDEP, MO	OCT 03	JAN 04	OCT 04	YES		
<b>FY 2005</b>	8,034,782	0.21	JMC, ROCK ISLAND, IL	SS/FP	ALLIANT TECH, INDEP, MO	OCT 04	JAN 05	OCT 05	YES		
<b>FY 2006</b>	5,376,000	0.23	JMC, ROCK ISLAND, IL	SS/FP	ALLIANT TECH, INDEP, MO	UNKNOWN	JAN 06	OCT 06	YES		
<b>CTG, 5.56MM BLANK (DODIC A080)</b>											
LOAD ASSEMBLY & PACK (LAP)											
<b>FY 2004</b>	20,260,000	0.09	JMC, ROCK ISLAND, IL	SS/FP	ALLIANT TECH, INDEP, MO	OCT 03	JAN 04	OCT 04	YES		
<b>FY 2005</b>	34,650,000	0.09	JMC, ROCK ISLAND, IL	SS/FP	ALLIANT TECH, INDEP, MO	OCT 04	JAN 05	OCT 05	YES		
<b>FY 2006</b>	18,172,727	0.10	JMC, ROCK ISLAND, IL	SS/FP	ALLIANT TECH, INDEP, MO	UNKNOWN	JAN 06	OCT 06	YES		
<b>CTG, 5.56MM GREEN AMMO (DODIC AA45)</b>											
LOAD ASSEMBLY & PACK (LAP)											
<b>FY 2005</b>	1,194,029	0.59	JMC, ROCK ISLAND, IL	SS/FP	ALLIANT TECH, INDEP, MO	OCT 04	JAN 05	OCT 05	YES		
<b>FY 2006</b>	2,000,000	0.36	JMC, ROCK ISLAND, IL	SS/FP	ALLIANT TECH, INDEP, MO	UNKNOWN	JAN 06	OCT 06	YES		
<b>FY 2007</b>	2,047,619	0.37	JMC, ROCK ISLAND, IL	SS/FP	ALLIANT TECH, INDEP, MO	UNKNOWN	JAN 07	OCT 07	YES		

Exhibit P-21, Production Schedule															Date: FEBRUARY 2005																													
Appropriation Code/Budget Activity/Serial Number: Procurement of Ammunition, Navy and Marine Corps/2/Ammunition															Weapon System			P-1 Line Item DODIC and Nomenclature: (101000) DODIC: A059 5.56MM, ALL TYPES																										
															PRODUCTION RATE			PROCUREMENT LEADTIMES																										
Manufacturer's Name and Location															MSR	ECON	MAX	ALT Prior to Oct 1	ALT After to Oct 1	Intitial Mfg PLT	Reorder Mfg PLT	Total	Unit of Measure																					
Item																																												
A059	ALLIANT TECH, INDEP, MO														0	19.4	67.5	4	4	9	9	13	M																					
															Fiscal Year 2004															Fiscal Year 2005														
															Calendar Year 2004															Calendar Year 2005														
Item	F Y	S V C	Q T Y	D E L	B A L	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	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 A L														
A059	2004	MC	54.2	0.0	54.2				A									4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.7	0.0													
	2005	MC	47.7	0.0	47.7																A									47.7														
	2006	MC	114.0	0.0	####																									114.0														
	2007	MC	114.0	0.0	####																									114.0														
															Fiscal Year 2006															Fiscal Year 2007														
															Calendar Year 2006															Calendar Year 2007														
Item	F Y	S V C	Q T Y	D E L	B A L	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	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 A L														
A059	2004	MC	54.2	54.2	0.0																									0.0														
	2005	MC	47.7	0.0	47.7	4	4	4	4	4	4	4	4	4	4	4	3.7													0.0														
	2006	MC	114.0	0.0	####				A								10	10	10	10	10	10	10	10	10	10	10	10	4	0.0														
	2007	MC	114.0	0.0	####																A									114.0														

Exhibit P-21, Production Schedule															Date: FEBRUARY 2005															
Appropriation Code/Budget Activity/Serial Number: Procurement of Ammunition, Navy and Marine Corps/2/Ammunition										Weapon System					P-1 Line Item DODIC and Nomenclature: (101000) DODIC: A059 5.56MM, ALL TYPES															
										PRODUCTION RATE					PROCUREMENT LEADTIMES															
Manufacturer's Name and Location										MSR	ECON	MAX	ALT Prior to Oct 1	ALT After to Oct 1	Intitial Mfg PLT	Reorder Mfg PLT	Total	Unit of Measure												
A059 ALLIANT TECH, INDEP, MO										0	19.4	67.5	4	4	9	9	13	M												
Fiscal Year 2008															Fiscal Year 2009															
Calendar Year 2008															Calendar Year 2009															
Item	F Y	S V C	Q T Y	D E L	B A L	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	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 A L
A059	2004	MC	57.8	57.8	0.0																									0.0
	2005	MC	48.0	48.0	0.0																									0.0
	2006	MC	114.0	114.0	0.0																									0.0
	2007	MC	114.0	0.0	####	10	10	10	10	10	10	10	10	10	10	10	10	4												0.0
Fiscal Year 2010															Fiscal Year 2011															
Calendar Year 2010															Calendar Year 2011															
Item	F Y	S V C	Q T Y	D E L	B A L	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	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 A L
A059	2004	MC	57.8	57.8	0.0																									0.0
	2005	MC	48.0	48.0	0.0																									0.0
	2006	MC	114.0	114.0	0.0																									0.0
	2007	MC	114.0	114.0	0.0																									0.0

Exhibit P-40, Budget Item Justification	Date: FEBRUARY 2005
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Appropriation Code/Budget Activity/Serial Number: Procurement of Ammunition, Navy and Marine Corps/2/Ammunition	P-1 Item Nomenclature: (102000) 7.62MM, ALL TYPES
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Program Element for Code B Items:	Other Related Program Elements
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	ID Code	FY2004	FY2005	FY2006	FY2007	FY2008	FY2009	FY2010	FY2011	To Complete	Total Program
Proc Qty											
Gross Cost	A	6.139	8.674	13.731	7.958	0.090	9.838	5.154	13.884		65.468

Description: Cartridge, 7.62 MM ball (DODIC A102) intermediate designed for AK47 rifle packaged 20 rounds per carton/ 50 cartons per wooden box.

The Cartridge, 7.62mm Blank M82 Linked (DODIC A111) is used with blank firing attachments to simulate firing during training exercises with the M240 Machine Guns. The M82 Blank Round consists of a brass cartridge case loaded with a primer and propellant composition. The case is shaped approximately to the configuration of the combat cartridge with no bullet. The propellant is held in the case by a wad, and on newer lots the mouth is sealed with purple lacquer and crimped for protection against air and moisture.

The Cartridge, 7.62mm 4 Ball M80/1 Tracer M62 Linked (DODIC A131) is mainly used in the M240 Machine Guns against personnel and unarmored targets. The M80 and M62 cartridges consist of a lead-styphnate primer and are loaded with propellant composition. The bullets are composed of a metal-clad steel jacket with a lead-antimony slug. The M80 Ball round consists of a brass cartridge case and an unpainted bullet. The M62 Tracer round consists of a brass cartridge case and a bullet with an orange tip for identification. The M62 Tracer round is intended to permit visible observation of the bullet's in-flight path or trajectory to the point of impact, target designation, or range estimation.

The Cartridge, 7.62mm Ball M80 Linked (DODIC A143) is used mainly in the M240 machine guns against personnel and unarmored targets. The DODIC A143 is used to augment DODIC A131 as dictated by local fire conditions. The M80 Ball consists of a brass cartridge case and an unpainted bullet. The cartridge case contains a lead-styphnate primer containing propellant. The bullet is composed of a metal-clad steel jacket with a lead-antimony slug.

The Cartridge, 7.62mm 4 M80 Ball/1 M62 Tracer Linked (DODIC A151) is mainly used in the M240 Machine Gun for training when overhead fire is required. The M80 and M62 Cartridges consist of a lead-styphnate primer and is loaded with propellant composition. The bullets are composed of a metal-clad steel jacket with a lead-antimony slug. The M80 Ball round consists of a brass cartridge case and an unpainted bullet. The M62 Tracer round consists of a brass cartridge case and a bullet with an orange tip for identification. The M62 Tracer round is intended to permit visible observation of the bullet's in-flight path or trajectory to the point of impact, target designation, or range estimation.

The Cartridge, 7.62mm Long Range M118 LR (DODIC AA11) is intended for long-range sniper and match firing and is used in the M86 Sniper and the M14 Rifles. This cartridge is used in training and for missions demanding accurate single fire that typically involves sniper and marksmanship applications. The M118 Round consists of a brass cartridge case, a primer, WC-750 propellant and projectile. The projectile consists of a copper alloy jacket surrounding a lead slug, and has an unpainted bullet.

Appropriation Code/Budget Activity/Serial Number: Procurement of Ammunition, Navy and Marine Corps/2/Ammunition	P-1 Item Nomenclature: (102000) 7.62MM, ALL TYPES
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Procurement Items	ID Code	FY2004	FY2005	FY2006	FY2007					To Complete	Total
A102, CTG, 7.62MM X 39 FOR AK-47 (DODIC A102)	A	0.000	2.457	0.980	0.000						
QTY		0	1,260,000	490,000	0						
<b>P-40a Total</b>		0.000	2.457	0.980	0.000						

Exhibit P-5, Cost Analysis								Date: FEBRUARY 2005				
Appropriation Code/Budget Activity/Serial Number: Procurement of Ammunition, Navy and Marine Corps/2/Ammunition		ID Code: A	P-1 Line Item Nomenclature: (102000) 7.62MM, ALL TYPES									
WBS COST ELEMENTS	FY04			FY05			FY06			FY07		
	Total Cost	Qty	Unit Cost	Total Cost	Qty	Unit Cost	Total Cost	Qty	Unit Cost	Total Cost	Qty	Unit Cost
<b>CTG, 7.62MM, BLANK LINKED (DODIC A111)</b>												
<b>HARDWARE:</b>												
LOAD ASSEMBLY & PACK (LAP)	1.246	5,191,666	0.24									
<b>CTG, 7.62MM 4 &amp; 1 LINKED (DODIC A131)</b>												
<b>HARDWARE:</b>												
LOAD ASSEMBLY & PACK (LAP)	3.943	9,617,073	0.41	5.696	13,246,511	0.43	7.23	14,755,102	0.49	6.851	13,702,000	0.50
<b>CTG, 7.62MM BALL LINKED (DODIC A143)</b>												
<b>HARDWARE:</b>												
LOAD ASSEMBLY & PACK (LAP)							2.457	5,341,304	0.46			
<b>CTG, 7.62MM, 4 &amp; 1 LINKED (DODIC A151)</b>												
<b>HARDWARE:</b>												
LOAD ASSEMBLY & PACK (LAP)							0.910	2,022,222	0.45	0.455	910,000	0.50
<b>CTG, 7.62MM BALL LONG RANGE (DODIC AA11)</b>												
<b>HARDWARE:</b>												
LOAD ASSEMBLY & PACK (LAP)	0.464	1,031,111	0.45				1.306	2,251,724	0.58			
<b>PRODUCT:</b>												
INDUSTRIAL STOCK SUPPORT	0.201			0.223			0.343			0.279		
PRODUCTION ENGINEERING	0.19			0.191			0.35			0.243		
QUALITY ASSURANCE	0.095			0.107			0.155			0.13		
<b>P-5 Total</b>												
	6.139			6.217			12.751			7.958		

Exhibit P-5a, Procurement History and Planning				Weapon System		Date: FEBRUARY 2005				
Appropriation Code/Budget Activity/Serial Number: Procurement of Ammunition, Navy and Marine Corps/2/Ammunition					P-1 Line Item Nomenclature: (102000) 7.62MM, ALL TYPES					
WBS COST ELEMENTS	Qty	Unit Cost	Location of PCO	Contract Method and Type	Contractor and Location	RFP Issue Date	Award Date	Date of First Delivery	Tech Data Available Now?	Date Revisions Available
<b>CTG 7.62 MM BLANK M82 LINKED/M13 (DODIC A111)</b>										
LOAD ASSEMBLY & PACK (LAP)										
FY 2004	5,191,666	0.24	JMC, ROCK ISLAND, IL	SS/FP	ALLIANT TECH, INDEP, MO	OCT 03	JAN 04	OCT 04	YES	
<b>CTG 7.62MM 4 BALL/1 TRACER LINKED (DODIC A131)</b>										
LOAD ASSEMBLY & PACK (LAP)										
FY 2004	9,617,073	0.41	JMC, ROCK ISLAND, IL	SS/FP	ALLIANT TECH, INDEP, MO	OCT 03	JAN 04	OCT 04	YES	
FY 2005	13,246,511	0.43	JMC, ROCK ISLAND, IL	SS/FP	ALLIANT TECH, INDEP, MO	OCT 04	JAN 05	OCT 05	YES	
FY 2006	14,755,102	0.49	JMC, ROCK ISLAND, IL	SS/FP	ALLIANT TECH, INDEP, MO	UNKNOWN	JAN 06	OCT 06	YES	
FY 2007	13,702,000	0.50	JMC, ROCK ISLAND, IL	SS/FP	ALLIANT TECH, INDEP, MO	UNKNOWN	JAN 07	OCT 07	YES	
<b>CTG, 7.62MM BALL LINKED (DODIC A143)</b>										
LOAD ASSEMBLY & PACK (LAP)										
FY 2006	5,341,304	0.46	JMC, ROCK ISLAND, IL	SS/FP	ALLIANT TECH, INDEP, MO	UNKNOWN	JAN 06	OCT 06	YES	
<b>CTG 7.62MM 4 BALL/1 TRACER LINKED (DODIC A151)</b>										
LOAD ASSEMBLY & PACK (LAP)										
FY 2006	2,022,222	0.45	JMC, ROCK ISLAND, IL	SS/FP	ALLIANT TECH, INDEP, MO	UNKNOWN	JAN 06	OCT 06	YES	
FY 2007	910,000	0.50	JMC, ROCK ISLAND, IL	SS/FP	ALLIANT TECH, INDEP, MO	UNKNOWN	JAN 07	OCT 07	YES	
<b>CTG 7.62MM BALL LONG RANGE (DODIC A111)</b>										
LOAD ASSEMBLY & PACK (LAP)										
FY 2004	1,031,111	0.51	JMC, ROCK ISLAND, IL	SS/FP	ALLIANT TECH, INDEP, MO	OCT 03	JAN 04	OCT 04	YES	
FY 2006	2,251,724	0.58	JMC, ROCK ISLAND, IL	SS/FP	ALLIANT TECH, INDEP, MO	UNKNOWN	JAN 06	OCT 06	YES	

Exhibit P-21, Production Schedule														Date: FEBRUARY 2005																														
Appropriation Code/Budget Activity/Serial Number: Procurement of Ammunition, Navy and Marine Corps/2/Ammunition														Weapon System				P-1 Line Item DODIC and Nomenclature: (102000), DODIC: A131, 7.62MM, ALL TYPES, 4 & 1 LINKED																										
														PRODUCTION RATE				PROCUREMENT LEADTIMES																										
Manufacturer's Name and Location														MSR	ECON	MAX	ALT Prior to Oct 1	ALT After to Oct 1	Intitial Mfg PLT	Reorder Mfg PLT	Total	Unit of Measure																						
Item																																												
A131														0	19.4	67.5	4	4	9	9	13	M																						
														Fiscal Year 2004														Fiscal Year 2005																
														Calendar Year 2004														Calendar Year 2005																
Item														F Y	S V C	Q T Y	D E L	B A L	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	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 A L	
A131														2004	MC	9.61	0.00	9.61				A										0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.00
														2005	MC	13.24	0.00	13.24																A										13.24
														2006	MC	14.76	0.00	14.76																										14.76
														2007	MC	13.70	0.00	13.70																										13.70
														Fiscal Year 2006														Fiscal Year 2007																
														Calendar Year 2006														Calendar Year 2007																
Item														F Y	S V C	Q T Y	D E L	B A L	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	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 A L	
A131														2004	MC	9.61	9.61	0.00																									0.00	
														2005	MC	13.24	0.00	13.24	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1													0.00
														2006	MC	14.76	0.00	14.76				A									1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.6	0.00
														2007	MC	13.70	0.00	13.70																A									13.70	



Exhibit P-21, Production Schedule										Date: FEBRUARY 2005																				
Appropriation Code/Budget Activity/Serial Number: Procurement of Ammunition, Navy and Marine Corps/2/Ammunition										Weapon System		P-1 Line Item DODIC and Nomenclature: (102000), DODIC: A131, 7.62MM, ALL TYPES, 4 & 1 LINKED																		
										PRODUCTION RATE			PROCUREMENT LEADTIMES																	
Item	Manufacturer's Name and Location									MSR	ECON	MAX	ALT Prior to Oct 1	ALT After to Oct 1	Intitial Mfg PLT	Reorder Mfg PLT	Total	Unit of Measure												
A131	ALLIANT TECH, INDEPENDANCE, MO									0	19.4	67.5	4	4	9	9	13	M												
										Fiscal Year 2008										Fiscal Year 2009										
										Calendar Year 2008										Calendar Year 2009										
Item	F	S	Q	D	B	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	B
	Y	V	T	E	A	C	O	E	A	E	A	P	A	U	U	U	E	C	O	E	A	E	A	P	A	U	U	U	E	A
	C	C	Y	L	L	T	V	C	N	B	R	R	Y	N	L	G	P	T	V	C	N	B	R	R	Y	N	L	G	P	
A131	2004	MC	9.61	9.61	0.00																									
	2005	MC	13.24	13.24	0.00																									
	2006	MC	14.76	14.76	0.00																									
	2007	MC	13.70	0.00	13.70	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	0.5													
										Fiscal Year 2010										Fiscal Year 2011										
										Calendar Year 2010										Calendar Year 2011										
Item	F	S	Q	D	B	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	B
	Y	V	T	E	L	T	V	C	N	B	R	R	Y	N	L	G	P	T	V	C	N	B	R	R	Y	N	L	G	P	
A131	2004	MC	9.61	9.61	0.00																									
	2005	MC	13.24	13.24	0.00																									
	2006	MC	14.76	14.76	0.00																									
	2007	MC	13.70	13.70	0.00																									

Exhibit P-40, Budget Item Justification	Date: FEBRUARY 2005
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Appropriation Code/Budget Activity/Serial Number: Procurement of Ammunition, Navy and Marine Corps/2/Ammunition	P-1 Item Nomenclature: (103000) LINEAR CHARGES, ALL TYPES
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Program Element for Code B Items:	Other Related Program Elements
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	ID Code	FY2004	FY2005	FY2006	FY2007	FY2008	FY2009	FY2010	FY2011	To Complete	Total Program
Proc Qty											
Gross Cost	A	21.310	17.718	38.761	35.000	39.204	35.498	39.397	35.683		262.571

Description: The Rocket Motor, 5-inch MK22 Mod 4 (DODIC J143) is a solid-fuel motor used for towing M58, M59, M68A2, and M69 Linear Demolition Charges (LDCs) into the air over obstacles or minefields for breaching, training, or test applications. It has a tractor motor design which incorporates two forward mounted, rearward facing, exhaust nozzles which are threaded into the motor headcap.

The Charge, Demolition High Explosive Linear M58A4 (DODIC M913) is a trailer-mounted and rocket-towed linear demolition charge designed to provide a clear path for combat vehicles during minefield and barrier breaching operations. The M58 is capable of clearing a path up to 46-feet wide and 350-feet long through a minefield. The arresting cable is a nylon rope that provides a standoff distance between the vehicle and the explosion. The demolition section consists primarily of a 3/4-inch nylon core rope, 700 composition C4 demolition blocks, and two strands of pentaerythritol tetranitrate (PETN) detonating cord. The blocks are sheathed with an outer layer of nylon. The two strands of detonating cord pass through the entire length of the demolition section. The demolition section and the arresting cable are coiled inside the container. Most of the arresting cable is beneath the demolition section. The fuze, which is packaged, is normally on top of the coiled demolition section.

The Charge, Demolition Inert Linear M68A2 (DODIC M914) is a trailer-mounted and rocket-towed inert linear demolition charge designed to simulate the launch and deployment characteristics of the M58A4 linear demolition charge for the purpose of training. The inert linear demolition charge is an exact replica of the M58A4 linear demolition charge (i.e., same size, shape, and weight). The arresting cable is a nylon rope that provides a standoff distance between the vehicle and the inert demolition section. The inert demolition section is composed of rubber blocks instead of C4 blocks and a M1147 Inert Fuze is used in place of the M1134 Series Fuze. The blocks are sheathed with an outer layer of nylon.

The Linear Demolition Charge M59A1 (DODIC ML25) is a rocket-towed, linear demolition charge designed to provide a clear path for combat vehicles during minefield and barrier breaching operations. The M59 is capable of clearing a path up to 46-feet wide and 350-feet long through a minefield. The arresting cable is a nylon rope that provides a standoff distance between the vehicle and the explosion. The demolition section consists primarily of a 3/4-inch nylon core rope, 700 composition C4 demolition blocks, and two strands of pentaerythritol tetranitrate (PETN) detonating cord. The blocks are sheathed with an outer layer of nylon. The two strands of detonating cord pass through the entire length of the demolition section. The demolition section and the arresting cable are coiled inside the container. Most of the arresting cable is beneath the demolition section. The fuze, which is packaged, is normally on top of the coiled demolition section.

The MK7 MOD2 mine clearing system, Anti-Personnel Obstacle Breaching System (APOBS) (DODIC MN79) consists of a line charge assembly and a fuze/rocket motor assembly. This item is a lightweight, self-contained, one-shot expendable system that is transported and deployed by a two-man team. APOBS uses the MK126 MOD1 rocket motor to propel a line charge over the obstacle. It is employed in combat operations to breach a lane through wire and anti-personnel mine obstacles.

Exhibit P-5, Cost Analysis								Date: FEBRUARY 2005					
Appropriation Code/Budget Activity/Serial Number: Procurement of Ammunition, Navy and Marine Corps/2/Ammunition		ID Code: A	P-1 Line Item Nomenclature: (103000) LINEAR CHARGES, ALL TYPES										
		FY04			FY05			FY06			FY07		
WBS COST ELEMENTS		Total Cost	Qty	Unit Cost	Total Cost	Qty	Unit Cost	Total Cost	Qty	Unit Cost	Total Cost	Qty	Unit Cost
<b>ROCKET MOTOR, 5 INCH (DODIC J143)</b>													
LOAD ASSEMBLE & PACK		1.628	229	7109.17	1.630	221	7375.57						
EC INHIBITING TAPE (LB)		0.019	631	30.11	0.019	609	31.20						
PROPELLANT 5-5 (LB)		0.271	16,826	16.11	0.271	16,238	16.69						
<b>CHG DEMO LINEAR HE (DODIC M913)</b>													
LOAD ASSEMBLE & PACK		2.919	211	13836.97	2.464	157	15694.270	1.663	101	16465.35			
COMP C4 CLASS 3 (LB)		3.292	358,700	9.18	2.779	266,900	10.41	1.875	171,700	10.92			
FUZE, ELECTRIC M1134A4 (EA)		0.354	211	1681.19	0.299	157	1904.46	0.202	101	2000.00			
<b>CHG DEMO LINEAR INERT (DODIC M914)</b>													
COMPLETE ROUND								0.375	15	25000.00			
<b>CHG DEMO LINEAR HE LVT (DODIC ML25)</b>													
LOAD ASSEMBLE & PACK		5.485	318	17248.43	3.486	204	17088.24						
COMP C4 CLASS 3 (LB)		4.324	556,500	7.77	2.748	357,000	7.70						
FUZE, ELECTRIC M1134A4 (EA)		0.588	318	1849.06	0.374	204	1833.33						
<b>APERS OBSTACLE BREACHING SYS (DODIC MN79)</b>													
LOAD ASSEMBLE & PACK		3.299	354	9319.21	4.117	500.00	8234.00	32.02	3,246	9864.45	32.02	3,154	10152.19
<b>PRODUCT</b>													
ACCEPTANCE TESTING		0.046			0.033			0.011					
INTERIM TRANSPORTATION		0.005			0.005								
PRODUCTION ENGINEERING		0.364			0.376			1.999			1.941		
QUALITY ASSURANCE		0.283			0.283			1.080			1.039		
GOVERNMENT FURNISHED MATERIAL		-1.567			-1.166			-0.464					
<b>TOTAL</b>		21.310			17.718			38.761			35.000		

Exhibit P-5a, Procurement History and Planning			Weapon System		Date: FEBRUARY 2005					
Appropriation Code/Budget Activity/Serial Number: Procurement of Ammunition, Navy and Marine Corps/2/Ammunition				P-1 Line Item Nomenclature: (103000) LINEAR CHARGES, ALL TYPES						
WBS COST ELEMENTS	Qty	Unit Cost	Location of PCO	Contract Method and Type	Contractor and Location	RFP Issue Date	Award Date	Date of First Delivery	Tech Data Available Now?	Date Revisions Available
<b>ROCKET MOTOR, 5 INCH (DODIC J143)</b>										
LAP COMPLETE ROUND J143										
FY 2004	229	7109.17	JMC, ROCK ISLAND, IL	C/FFP	NSWC, INDIAN HEAD, MD	OCT 03	DEC 03	OCT 05	YES	
FY 2005	221	7375.57	JMC, ROCK ISLAND, IL	C/FFP	NSWC, INDIAN HEAD, MD	OCT 04	DEC 04	OCT 06	YES	
EC INHIBITING TAPE (LB)										
FY 2004	631	30.11	JMC, ROCK ISLAND, IL	C/FFP	ALLIANT TECH, RADFORD, VA	OCT 03	DEC 03	OCT 05	YES	
FY 2005	609	31.20	JMC, ROCK ISLAND, IL	C/FFP	ALLIANT TECH, RADFORD, VA	OCT 04	DEC 04	OCT 06	YES	
PROPELLANT N-5 (LB)										
FY 2004	16,826	16.11	JMC, ROCK ISLAND, IL	C/FFP	BAE HOLSTON AAP, KINGSPORT, TN	OCT 03	DEC 03	OCT 05	YES	
FY 2005	16,238	16.69	JMC, ROCK ISLAND, IL	C/FFP	BAE HOLSTON AAP, KINGSPORT, TN	OCT 04	DEC 04	OCT 06	YES	
<b>CHG DEMO LINEAR (DODIC M913)</b>										
LAP COMPLETE ROUND M913										
FY 2004	211	13836.97	JMC, ROCK ISLAND, IL	C/FFP	American Ordnance MILAN, TN	OCT 03	MAR 04	AUG 05	YES	
FY 2005	157	15694.27	JMC, ROCK ISLAND, IL	C/FFP	American Ordnance MILAN, TN	OCT 04	MAR 05	AUG 06	YES	
FY 2006	101	16465.35	JMC, ROCK ISLAND, IL	C/FFP	American Ordnance MILAN, TN	UNKNOWN	MAR 06	AUG 07	YES	
COMP C4 CLASS 3 (LB)										
FY 2004	358,700	9.18	JMC, ROCK ISLAND, IL	C/FFP	BAE HOLSTON AAP, KINGSPORT, TN	OCT 03	MAR 04	AUG 05	YES	
FY 2005	266,900	10.41	JMC, ROCK ISLAND, IL	C/FFP	BAE HOLSTON AAP, KINGSPORT, TN	OCT 04	MAR 05	AUG 06	YES	
FY 2006	171,700	10.92	JMC, ROCK ISLAND, IL	C/FFP	BAE HOLSTON AAP, KINGSPORT, TN	UNKNOWN	MAR 06	AUG 07	YES	
FUZE, ELECTRIC M1134A4 (EA)										
FY 2004	211	1681.19	JMC, ROCK ISLAND, IL	C/FFP	CRANE AAP, CRANE, IN	OCT 03	MAR 04	AUG 05	YES	
FY 2005	157	1904.46	JMC, ROCK ISLAND, IL	C/FFP	CRANE AAP, CRANE, IN	OCT 04	MAR 05	AUG 06	YES	
FY 2006	101	2000.00	JMC, ROCK ISLAND, IL	C/FFP	CRANE AAP, CRANE, IN	UNKNOWN	MAR 06	AUG 07	YES	
<b>CHG DEMO LINEAR INERT (DODIC M914)</b>										
LAP COMPLETE ROUND M914										
FY 2007	15	25000.00	JMC, ROCK ISLAND, IL	C/FFP	American Ordnance MILAN, TN	UNKNOWN	APR 06	MAY 07	NO	

Exhibit P-5a, Procurement History and Planning			Weapon System		Date: FEBRUARY 2005					
Appropriation Code/Budget Activity/Serial Number: Procurement of Ammunition, Navy and Marine Corps/2/Ammunition				P-1 Line Item Nomenclature: (103000) LINEAR CHARGES, ALL TYPES						
WBS COST ELEMENTS	Qty	Unit Cost	Location of PCO	Contract Method and Type	Contractor and Location	RFP Issue Date	Award Date	Date of First Delivery	Tech Data Available Now?	Date Revisions Available
<b>CHG DEMO LINEAR (DODIC ML25)</b>										
LAP COMPLETE ROUND ML25										
<b>FY 2004</b>	318	17248.43	JMC, ROCK ISLAND, IL	C/FFP	AMERICAN ORDNANCE MILAN, TN	OCT 03	MAR 04	AUG 05	YES	
<b>FY 2005</b>	204	17088.24	JMC, ROCK ISLAND, IL	C/FFP	AMERICAN ORDNANCE MILAN, TN	OCT 04	MAR 05	AUG 06	YES	
COMP C4 CLASS 3 (LB)										
<b>FY 2004</b>	556,500	7.77	JMC, ROCK ISLAND, IL	C/FFP	BAE HOLSTON AAP, KINGSPORT, TN	OCT 03	MAR 04	AUG 05	YES	
<b>FY 2005</b>	357,000	7.70	JMC, ROCK ISLAND, IL	C/FFP	BAE HOLSTON AAP, KINGSPORT, TN	OCT 04	MAR 05	AUG 06	YES	
FUZE, ELECTRIC M1134A4 (EA)										
<b>FY 2004</b>	318	1849.06	JMC, ROCK ISLAND, IL	C/FFP	CRANE AAP CRANE, IN	OCT 03	MAR 04	AUG 05	YES	
<b>FY 2005</b>	204	1833.33	JMC, ROCK ISLAND, IL	C/FFP	CRANE AAP CRANE, IN	OCT 04	MAR 05	AUG 06	YES	
<b>APERS OBSTACLE BREACHING SYS (DODIC MN79)</b>										
LAP COMPLETE ROUND MN79										
<b>FY 2004</b>	354	9319.21	MCSC, QUANTICO, VA	C/FFP	ENSIGN-BICKFORD GRAHAM, KY	OCT 03	DEC 03	JUN 04	YES	
<b>FY 2005</b>	500	8234.00	MCSC, QUANTICO, VA	C/FFP	ENSIGN-BICKFORD GRAHAM, KY	OCT 04	DEC 04	JUN 05	YES	
<b>FY 2006</b>	3,246	9873.57	MCSC, QUANTICO, VA	C/FFP	UNKNOWN	UNKNOWN	DEC 05	JUN 06	YES	
<b>FY 2007</b>	3,154	10158.63	MCSC, QUANTICO, VA	C/FFP	UNKNOWN	UNKNOWN	DEC 06	JUN 07	YES	

Exhibit P-5a

Exhibit P-21, Production Schedule	Date: FEBRUARY 2005
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Appropriation Code/Budget Activity/Serial Number: Procurement of Ammunition, Navy and Marine Corps/2/Ammunition	Weapon System	P-1 Line Item DODIC and Nomenclature: (103000) DODIC: MN79, APERS OBSTACLE BREACHING SYS
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Item	Manufacturer's Name and Location	PRODUCTION RATE			PROCUREMENT LEADTIMES				Total	Unit of Measure
		MSR	ECON	MAX	ALT Prior to Oct 1	ALT After to Oct 1	Intitial Mfg PLT	Reorder Mfg PLT		
MN79	ENSIGN-BICKFORD SIMSBURY, CT	0.1	1.5	0.3	3	3	6	6	9	K

Item	Fiscal Year 2004																Fiscal Year 2005															
	Calendar Year 2004																Calendar Year 2005															
	F Y	S V	Q T	D E	B A	O C	N O	D V	J E	F A	M A	A P	M A	J U	J U	A U	S E	O C	N O	D V	J E	F A	M A	A P	M A	J U	J U	A U	S E	B A		
MN79	04	MC	0.35	0.00	0.35			A						0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03					0.00			
	05	MC	0.50	0.00	0.50																				0.04	0.04	0.04	0.04	0.34			
	06	MC	3.25	0.00	3.25																								3.25			
	07	MC	3.15	0.00	3.15																								3.15			

Item	Fiscal Year 2006																Fiscal Year 2007															
	Calendar Year 2006																Calendar Year 2007															
	F Y	S V	Q T	D E	B A	O C	N O	D V	J E	F A	M A	A P	M A	J U	J U	A U	S E	O C	N O	D V	J E	F A	M A	A P	M A	J U	J U	A U	S E	B A		
MN79	04	MC	0.35	0.00	0.00																								0.00			
	05	MC	0.50	0.16	0.34	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.06																0.00			
	06	MC	3.25	0.00	3.25			A						0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.28				0.00			
	07	MC	3.15	0.00	3.15																				0.26	0.26	0.26	0.26	2.11			

Exhibit P-21, Production Schedule	Date: FEBRUARY 2005
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Appropriation Code/Budget Activity/Serial Number: Procurement of Ammunition, Navy and Marine Corps/2/Ammunition	Weapon System	P-1 Line Item DODIC and Nomenclature: (103000) DODIC: MN79, APERS OBSTACLE BREACHING SYS
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Item	Manufacturer's Name and Location	PRODUCTION RATE			PROCUREMENT LEADTIMES				Total	Unit of Measure
		MSR	ECON	MAX	ALT Prior to Oct 1	ALT After to Oct 1	Intitial Mfg PLT	Reorder Mfg PLT		
MN79	ENSIGN-BICKFORD SIMSBURY, CT	0.1	1.5	3	3	3	6	6	9	K

<b>Fiscal Year 2008</b>	<b>Fiscal Year 2009</b>
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Item	Calendar Year 2008												Calendar Year 2009																	
	F	S	Q	D	B	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	B
MN79	04	MC	0.35	0.35	0.00																									0.00
	05	MC	0.50	0.50	0.00																									0.00
	06	MC	3.25	3.25	0.00																									0.00
	07	MC	3.15	1.04	2.11	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.29																0.00	

<b>Fiscal Year 2010</b>	<b>Fiscal Year 2011</b>
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Item	Calendar Year 2010												Calendar Year 2011																	
	F	S	Q	D	B	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	B
MN79	04	MC	0.35	0.35	0.00																									0.00
	05	MC	0.50	0.50	0.00																									0.00
	06	MC	3.25	3.25	0.00																									0.00
	07	MC	3.15	3.15	0.00																									0.00

Exhibit P-40, Budget Item Justification	Date: FEBRUARY 2005
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Appropriation Code/Budget Activity/Serial Number: Procurement of Ammunition, Navy and Marine Corps/2/Ammunition	P-1 Item Nomenclature: (104000) .50 CALIBER
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Program Element for Code B Items:	Other Related Program Elements
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	ID Code	FY2004	FY2005	FY2006	FY2007	FY2008	FY2009	FY2010	FY2011	To Complete	Total Program
Proc Qty											
Gross Cost	A	8.058	1.891	34.882	6.471	20.617	39.221	9.425	23.027		143.592

Description: The Cartridge, Caliber .50 M33 Linked (DODIC A555) is used in M2 .50 Caliber Machine Guns to augment DODIC A576 as dictated by local fire conditions. The cartridges are 5.45 inches long with a brass case and are linked together with the M2 cartridge link, 100 rounds to a belt. The projectile is a steel core bullet with a copper-alloy jacket. The Bare copper (non-painted) projectile tip identifies the M33 Cartridge.

The Cartridge, Caliber .50 4 API M8/1 API-T M20 Linked (DODIC A576) is used in M2 .50 caliber Machine Guns against armored targets. Upon impact with the target, the incendiary mixture bursts into flames and ignites the flammable material. The cartridges are linked with the M2 Link. The cartridges are 5.45 inches long with a brass case and are linked four M8 Armor Piercing Incendiary cartridges to one M20 Armor Piercing Incendiary Tracer cartridge. The projectile for the M8 Cartridge is a metal-jacketed bullet with a hardened core of manganese-molybdenum steel, a point filler incendiary composition and a base filler seal of lead antimony. The projectile for the M20 Cartridge is similar to the M8 Bullet but with a tracer element. An aluminum-colored tip on the projectile identifies the M8 Cartridge and a red tip with aluminum-colored stripe to the rear of the red tip identifies the M20 Cartridge.

The Cartridge, Caliber .50 Blank M1A1 Linked (DODIC A598) is used to simulate firing in training exercises using the M2 Machine Guns. The M1A1 Cartridge is identified by the absence of a bullet.

The Cartridge, Caliber .50 4 API M8/1 API-T M20 Linked (DODIC X576) is used in M2 .50 caliber Machine Guns against armored targets in a training unique environment. This cartridge is certified for overhead fire of unprotected friendly troops. The cartridge will provide the same capability as DODIC A576, which upon impact with the target, the incendiary mixture bursts into flames and ignites the flammable material.

The Cartridge, Caliber .50 API Single Round (DODIC X606) is used in the M82A3 Special Application Scoped Rifle (SASR) sniper rifle against armored targets in a training unique environment. This cartridge is certified for overhead fire of unprotected friendly troops. The cartridge will provide the same capability as DODIC A606, which provides penetration, fragmentation, and fire starting capabilities upon impact of target.



Exhibit P-40a, Budget Item Justification for Aggregated Items

Date:  
FEBRUARY 2005

Appropriation Code/Budget Activity/Serial Number:  
Procurement of Ammunition, Navy and Marine Corps/2/Ammunition

P-1 Item Nomenclature:  
(104000) .50 CALIBER

Procurement Items	ID Code	FY2004	FY2005	FY2006	FY2007					To Complete	Total
CTG, CAL .50 SNIPER CLR F/OVRHD FIRE (DODIC X606)	A	0.000	0.000	0.244	0.244						
QTY		0	0	88,727	87,142						
<b>P-40a Total</b>		0.000	0.000	0.244	0.244						

Exhibit P-5, Cost Analysis		Weapon System			Date: FEBRUARY 2005							
Appropriation Code/Budget Activity/Serial Number: Procurement of Ammunition, Navy and Marine Corps/2/Ammunition			ID Code: A	P-1 Line Item Nomenclature: (104000) .50 CALIBER								
WBS COST ELEMENTS	FY04			FY05			FY06			FY07		
	Total Cost	Qty	Unit Cost	Total Cost	Qty	Unit Cost	Total Cost	Qty	Unit Cost	Total Cost	Qty	Unit Cost
<b>CTG, .50 CAL BALL LINKED (DODIC A555)</b>												
LOAD ASSEMBLY & PACK (LAP)	1.263	774,846	1.63				0.434	252,325	1.72			
<b>CTG, .50 CAL API 4 &amp; 1 LINKED (DODIC A576)</b>												
LOAD ASSEMBLY & PACK (LAP)	6.174	2,756,250	2.24	1.795	690,384	2.600	26.521	12,055,000	2.20			
BOX METAL M2A1 (EACH)	0.255	2,849	8.95	0.073	54,887	10.33	1.081	122,840	8.80			
<b>CTG, .50 CAL BLANK LINKED (DODIC A598)</b>												
LOAD ASSEMBLY & PACK (LAP)	0.202	325,806	0.62									
<b>CTG, .50 CAL API 4 &amp; 1 LINKED CLR F/OVHD FIRE (DODIC X576)</b>												
LOAD ASSEMBLY & PACK (LAP)							4.553	2,742,771	1.66	4.553	2,662,573	1.71
<b>PRODUCT</b>												
INDUSTRIAL STOCK SUPPORT	0.017			0.002			0.39			0.36		
INTERIM TRANSPORTATION	0.006			0.002			0.027					
PRODUCTION ENGINEERING	0.113			0.016			0.417			0.164		
QUALITY ASSURANCE	0.028			0.003			1.215			1.15		1.674
<b>TOTAL</b>	<b>8.058</b>			<b>1.891</b>			<b>34.638</b>			<b>6.227</b>		

Exhibit P-5a, Procurement History and Planning	Weapon System	Date: FEBRUARY 2005
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Appropriation Code/Budget Activity/Serial Number: Procurement of Ammunition, Navy and Marine Corps/2/Ammunition	P-1 Line Item Nomenclature: (104000) .50 CALIBER
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WBS COST ELEMENTS	Qty	Unit Cost	Location of PCO	Contract Method and Type	Contractor and Location	RFP Issue Date	Award Date	Date of First Delivery	Tech Data Available Now?	Date Revisions Available
<b>CTG, 50 CAL BALL LINKED (DODIC A555)</b>										
LOAD ASSEMBLY & PACK (LAP)										
<b>FY 2004</b>	774,846	1.63	JMC, ROCK ISLAND, IL	SS/FP	ALLIANT TECH, INDEP, MO	OCT 03	JAN 04	OCT 04	YES	
<b>FY 2006</b>	252,325	1.72	JMC, ROCK ISLAND, IL	SS/FP	ALLIANT TECH, INDEP, MO	UNKNOWN	JAN 06	OCT 06	YES	
<b>CTG, 50 CAL API 4 &amp; 1 LINKED (DODIC A576)</b>										
LOAD ASSEMBLY & PACK (LAP)										
<b>FY 2004</b>	2,756,250	2.24	JMC, ROCK ISLAND, IL	SS/FP	ALLIANT TECH, INDEP, MO	OCT 03	JAN 04	OCT 04	YES	
<b>FY 2005</b>	690,384	2.60	JMC, ROCK ISLAND, IL	SS/FP	ALLIANT TECH, INDEP, MO	OCT 04	JAN 05	OCT 05	YES	
<b>FY 2006</b>	12,055,000	2.20	JMC, ROCK ISLAND, IL	SS/FP	ALLIANT TECH, INDEP, MO	UNKNOWN	JAN 06	OCT 06	YES	
BOX METAL M2A1 (EACH)										
<b>FY 2004</b>	2,849	8.95	JMC, ROCK ISLAND, IL	SS/FP	ALLIANT TECH, INDEP, MO	OCT 03	JAN 04	OCT 04	YES	
<b>FY 2005</b>	54,887	10.33	JMC, ROCK ISLAND, IL	SS/FP	ALLIANT TECH, INDEP, MO	OCT 04	JAN 05	OCT 05	YES	
<b>FY 2006</b>	122,840	8.80	JMC, ROCK ISLAND, IL	SS/FP	ALLIANT TECH, INDEP, MO	UNKNOWN	JAN 06	OCT 06	YES	
<b>CTG, 50 CAL BLANK LINKED (DODIC A598)</b>										
LOAD ASSEMBLY & PACK (LAP)										
<b>FY 2004</b>	325,806	0.62	JMC, ROCK ISLAND, IL	SS/FP	ALLIANT TECH, INDEP, MO	OCT 03	JAN 04	OCT 04	YES	
<b>CTG, 50 CAL API 4 &amp; 1 LINKED CLR F/OVHD FIRE (DODIC X576)</b>										
LOAD ASSEMBLY & PACK (LAP)										
<b>FY 2006</b>	2,742,771	1.66	CRANE NWS, IN	SS/FP	UNKNOWN	UNKNOWN	JAN 06	OCT 06	YES	
<b>FY 2007</b>	2,662,573	1.71	CRANE NWS, IN	SS/FP	UNKNOWN	UNKNOWN	JAN 07	OCT 07	YES	

Exhibit P-21, Production Schedule															Date: FEBRUARY 2005																													
Appropriation Code/Budget Activity/Serial Number: Procurement of Ammunition, Navy and Marine Corps/2/Ammunition															Weapon System					P-1 Line Item DODIC and Nomenclature: (104000) DODIC: A576, CTG, .50 CALIBER API 4 & 1 LINKED																								
															PRODUCTION RATE					PROCUREMENT LEADTIMES																								
Manufacturer's Name and Location															MSR	ECON	MAX	ALT Prior to Oct 1	ALT After to Oct 1	Intitial Mfg PLT	Reorder Mfg PLT	Total	Unit of Measure																					
A576															0	1.15	3.96	4	4	9	9	13	M																					
															Fiscal Year 2004										Fiscal Year 2005																			
															Calendar Year 2004										Calendar Year 2005																			
Item															F	S	Q	D	B	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	B
															Y	V	T	E	A	C	O	E	A	E	A	P	A	U	U	U	E	C	O	E	A	E	A	P	A	U	U	U	E	A
A576															2004	MC	2.76	0.00	2.76				A									0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.00
															2005	MC	0.69	0.00	0.69																A									0.69
															2006	MC	12.06	0.00	12.06																									12.06
															2007	MC	0.00	0.00	0.00																									0.00
															Fiscal Year 2006										Fiscal Year 2007																			
															Calendar Year 2006										Calendar Year 2007																			
Item															F	S	Q	D	B	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	B
															Y	V	T	E	A	C	O	E	A	E	A	P	A	U	U	U	E	C	O	E	A	E	A	P	A	U	U	U	E	A
A576															2004	MC	2.76	2.76	0.00																									0.00
															2005	MC	0.69	0.00	0.69	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.03												0.00
															2006	MC	12.06	0.00	12.06				A									1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.06	0.00
															2007	MC	0.00	0.00	0.00																									0.00

Exhibit P-40, Budget Item Justification	Date: FEBRUARY 2005
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Appropriation Code/Budget Activity/Serial Number: Procurement of Ammunition, Navy and Marine Corps/2/Ammunition	P-1 Item Nomenclature: (105000) 40MM, ALL TYPES
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Program Element for Code B Items:	Other Related Program Elements
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	ID Code	FY2004	FY2005	FY2006	FY2007	FY2008	FY2009	FY2010	FY2011	To Complete	Total Program
Proc Qty											
Gross Cost	A	10,125	25,017	58,148	55,236	51,164	53,052	66,960	60,566		380,268

Description: This line includes 40mm Cartridges, All Types. This ammunition includes the following specific cartridges:

DODIC B430 is an interim DODIC. The program is engineering support required to prepare the Weapons Systems Explosives Safety Review Board documentation to procure an improved variant of the 40mm M430 High Explosive Dual Purpose Cartridge (DODIC B646).

The Cartridge, 40mm Target Practice (TP) M781 (DODIC B519) is a fixed cartridge of ammunition consisting of a plastic ogive, metal body, and plastic cartridge case. The ogive houses a highly visible yellow-orange dye. The cartridge case is press-fitted with a .38 caliber blank cartridge containing the propellant. This cartridge is fired from the M203 Grenade Launcher and is used for training and contains no high explosive. Upon impact, the projectile ruptures and releases a puff of yellow-orange dye simulating explosive impact.

The Cartridge, 40mm White Star Parachute M583/M583A1 (DODIC B535) is a fixed cartridge of ammunition consisting of a projectile assembly and a cartridge case assembly. This cartridge is fired from the M203 Grenade Launcher and is used for illumination and signaling.

The Cartridge, 40mm High-Explosive Dual-Purpose (HEDP) M430/M430A1 Linked (DODIC B542) is a fixed cartridge of ammunition consisting of an ogive, projectile body, and cartridge case. This cartridge is fired from the M203 Grenade Launcher and is a high explosive, dual-purpose round. The projectile's shaped charge is designed to penetrate two inches of steel armor and inflict personnel casualties in the target area.

The Cartridge, 40mm High-Explosive Dual-Purpose (HEDP) M433 (DODIC B546) is a fixed round of ammunition consisting of an ogive, projectile body, and cartridge case. This cartridge is fired from the M203 Grenade Launcher and is a high explosive, dual-purpose round. The projectile's shaped charge is designed to penetrate two inches of steel armor and inflict personnel casualties in the target area.

Exhibit P-40, Budget Item Justification	Date: FEBRUARY 2005
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Appropriation Code/Budget Activity/Serial Number: Procurement of Ammunition, Navy and Marine Corps/2/Ammunition	P-1 Item Nomenclature: (105000) 40MM, ALL TYPES
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Program Element for Code B Items:	Other Related Program Elements
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	ID Code	FY2004	FY2005	FY2006	FY2007	FY2008	FY2009	FY2010	FY2011	To Complete	Total Program
Proc Qty											
Gross Cost	A	10,125	25,017	58,148	55,236	51,164	53,052	66,960	60,566		380,268

Description Continuation:

The Cartridge, 40mm Practice M385A1 (DODIC B576) is a fixed cartridge consisting of a projectile body and cartridge case. This cartridge is fired from the MK19 Mod 3 Grenade Machine Gun and is designed for practice or weapon proof testing.

The Cartridge, 40mm Blank Saluting (DODIC B650) is fired from a 40mm Saluting Gun and is used for ceremonial and training purposes. The cartridge contains flash charge designed to produce a loud report when fired.

The Cartridge, 40mm Target Practice, Linked M281 MD 0 M385A1 (DODIC BA12) is a fixed cartridge consisting of a projectile body, and cartridge case. This cartridge is fired from the MK19 Mod 3 Grenade Machine Gun and is designed for practice or weapon proof testing. The cartridge is procured as a replacement for the M385 (DODIC B576) and the M918 (DODIC B584).

Exhibit P-40a, Budget Item Justification for Aggregated Items

Date:  
FEBRUARY 2005

Appropriation Code/Budget Activity/Serial Number:

Procurement of Ammunition, Navy and Marine Corps/2/Ammunition

P-1 Item Nomenclature:

(105000) 40MM, ALL TYPES

Procurement Items	ID Code	FY2004	FY2005	FY2006	FY2007					To Complete	Total
CTG, 40MM FCT PROGRAM (DODIC B430)		0.519	0.000	0.000	0.000						
QTY											
P-40a Total		0.519	0.000	0.000	0.000						

Exhibit P-5, Cost Analysis												Date: FEBRUARY 2005	
Appropriation Code/Budget Activity/Serial Number: Procurement of Ammunition, Navy and Marine Corps/2/Ammunition		ID Code: A	P-1 Line Item Nomenclature: (105000) 40MM, ALL TYPES										
		FY04			FY05			FY06			FY07		
WBS COST ELEMENTS		Total Cost	Qty	Unit Cost	Total Cost	Qty	Unit Cost	Total Cost	Qty	Unit Cost	Total Cost	Qty	Unit Cost
<b>CTG, 40MM PRACTICE M781 (DODIC B519)</b>													
COMPLETE ROUND	2.000	378,071	4.800	2.721	572,519	4.750	5.009	1,232,812	4.060	0.351	84,497	4.150	
<b>CTG, 40MM WHITE STAR PARA M583 (DODIC B535)</b>													
COMPLETE ROUND				0.939	26,824	35.000							
<b>CTG, 40MM HEDP LINKED MK19 (DODIC B542)</b>													
LAP, CTG, 40MM, HEDP M433				9.141	604,563	15.120	23.322	1,532,325	15.220	23.670	1,512,460	15.650	
BANDOLEER (EA)				0.212	76,534	2.770	0.716	256,630	2.790	0.727	253,310	2.870	
COMP A-5 CLASS 1 (LB)				0.194	45,327	4.280	0.655	151,972	4.310	0.665	150,112	4.430	
COMP CH-6 (LB)				0.007	367	19.070	0.024	1,232	19.480	0.024	1,215	19.750	
DET STAB M55 (EA)				0.313	474,242	0.660	1.057	1,601,515	0.660	1.073	1,577,941	0.680	
FZ PIBD M550 MPTS (EA)				3.146	470,254	6.690	10.627	1,579,049	6.730	10.786	1,556,421	6.930	
LAP SPITBACK ASSY F/M433(EA)				0.015	10,204	1.470	0.051	34,228	1.490	0.051	3,774	1.510	
LAP TEST VEHICLE F/M433 (EA)				0.099	10,227	9.680	0.334	34,326	9.730	0.339	33,866	10.010	
LEAD AZIDE (SP) (LB)				0.002	47	42.550	0.007	158	44.300	0.007	156	44.870	
M9.003 FLAKE F/40MM (LB)				0.024	370	64.860	0.081	1,241	65.220	0.082	1,224	66.940	
RDX TYPE II CLASS 3(LB)				0.002	47	42.550	0.007	158	44.300	0.007	156	44.870	
<b>CTG, 40MM HEDP M433 (DODIC B546)</b>													
COMPLETE ROUND	3.345	82,450	40.570	3.473	92,219	37.660				1.878	26,540	70.760	
<b>CTG, 40MM BLANK SALUTING (DODIC B650)</b>													
COMPLETE ROUND, 40MM BLANK SALUTE										0.207	3,309	62.55	
<b>CTG, 40MM PRACTICE LINKED MK19 (DODIC B576)</b>													
COMPLETE ROUND													
<b>CTG, 40MM PRACTICE (DODIC BA12)</b>													
COMPLETE ROUND	3.996	216,000	18.50	4.234	227,756	18.59	11.839	618,547	19.14	12.002	608,620	19.72	
<b>PRODUCT</b>													
INDUSTRIAL STOCK SUPPORT	0.045			0.083			0.162			0.047			
ACCEPTANCE TESTING	0.021			0.021			0.059			0.059			
PRODUCTION ENGINEERING	0.139			0.293			3.988			3.150			
QUALITY ASSURANCE	0.060			0.098			0.210			0.111			
<b>P-5 Total</b>		9.606			25.017		58.148			55.236			



Exhibit P-5a, Procurement History and Planning				Weapon System		Date: FEBRUARY 2005				
Appropriation Code/Budget Activity/Serial Number: Procurement of Ammunition, Navy and Marine Corps/2/Ammunition					P-1 Line Item Nomenclature: (105000) 40MM, ALL TYPES					
WBS COST ELEMENTS	Qty	Unit Cost	Location of PCO	Contract Method and Type	Contractor and Location	RFP Issue Date	Award Date	Date of First Delivery	Tech Data Available Now?	Date Revisions Available
<b>CTG 40MM PRACTICE M781 (DODIC B519)</b>										
LAP, COMPLETE ROUND										
FY 2004	378,071	4.800	JMC,ROCK ISLAND,IL	C/FFP	MAST TECHNOLOGIES LAS VEGAS, NV	OCT 03	DEC 03	MAR 05	YES	
FY 2005	572,519	4.750	JMC,ROCK ISLAND,IL	C/FFP	MAST TECHNOLOGIES LAS VEGAS, NV	OCT 04	DEC 04	MAR 06	YES	
FY 2006	1,232,812	4.060	JMC,ROCK ISLAND,IL	C/FFP	MAST TECHNOLOGIES LAS VEGAS, NV	OCT 05	DEC 05	MAR 07	YES	
FY 2007	84,497	4.150	JMC,ROCK ISLAND,IL	C/FFP	MAST TECHNOLOGIES LAS VEGAS, NV	UNKNOWN	DEC 06	MAR 08	YES	
<b>CTG 40MM WHITE STAR PARA (DODIC B535)</b>										
LAP, COMPLETE ROUND										
FY 2005	26,824	35.00	JMC, ROCK ISLAND, IL	C/FFP	MARTIN. PERRY, FL	OCT 04	DEC 04	MAR 06	YES	
<b>CTG 40MM HEDP LINKED FOR MK 19 (DODIC B542)</b>										
LAP, CTG, 40MM, HEDP M433										
FY 2005	604,563	15.12	JMC, ROCK ISLAND, IL	C/FP	UNKNOWN	OCT 04	MAR 05	JUL 06	YES	
FY 2006	1,532,325	15.22	JMC, ROCK ISLAND, IL	C/FP	UNKNOWN	UNKNOWN	MAR 06	JUL 07	YES	
FY 2007	1,512,460	15.65	JMC, ROCK ISLAND, IL	C/FP	UNKNOWN	UNKNOWN	MAR 07	JUL 08	YES	
BANDOLEER (EA)										
FY 2005	76,534	2.77	JMC, ROCK ISLAND, IL	C/FP	UNKNOWN	OCT 04	MAR 05	JUL 06	YES	
FY 2006	256,630	2.79	JMC, ROCK ISLAND, IL	C/FP	UNKNOWN	UNKNOWN	MAR 06	JUL 07	YES	
FY 2007	253,310	2.87	JMC, ROCK ISLAND, IL	C/FP	UNKNOWN	UNKNOWN	MAR 07	JUL 08	YES	
COMP A-5 CLASS 1 (LB)										
FY 2005	45,327	4.28	JMC, ROCK ISLAND, IL	C/FP	UNKNOWN	OCT 04	MAR 05	JUL 06	YES	
FY 2006	151,972	4.31	JMC, ROCK ISLAND, IL	C/FP	UNKNOWN	UNKNOWN	MAR 06	JUL 07	YES	
FY 2007	150,112	4.43	JMC, ROCK ISLAND, IL	C/FP	UNKNOWN	UNKNOWN	MAR 07	JUL 08	YES	
COMP CH-6 (LB)										
FY 2005	367	19.07	JMC, ROCK ISLAND, IL	C/FP	UNKNOWN	OCT 04	MAR 05	JUL 06	YES	
FY 2006	1,232	19.48	JMC, ROCK ISLAND, IL	C/FP	UNKNOWN	UNKNOWN	MAR 06	JUL 07	YES	
FY 2007	1,215	19.75	JMC, ROCK ISLAND, IL	C/FP	UNKNOWN	UNKNOWN	MAR 07	JUL 08	YES	

Exhibit P-5a, Procurement History and Planning			Weapon System			Date: FEBRUARY 2005				
Appropriation Code/Budget Activity/Serial Number: Procurement of Ammunition, Navy and Marine Corps/2/Ammunition					P-1 Line Item Nomenclature: (105000) 40MM, ALL TYPES					
WBS COST ELEMENTS	Qty	Unit Cost	Location of PCO	Contract Method and Type	Contractor and Location	RFP Issue Date	Award Date	Date of First Delivery	Tech Data Available Now?	Date Revisions Available
<b>CTG 40MM HEDP LINKED FOR MK 19 (DODIC B542)</b>										
DET STAB M55 (EA)										
FY 2005	474,242	0.66	JMC, ROCK ISLAND, IL	C/FP	UNKNOWN	OCT 04	MAR 05	JUL 06	YES	
FY 2006	1,601,515	0.66	JMC, ROCK ISLAND, IL	C/FP	UNKNOWN	UNKNOWN	MAR 06	JUL 07	YES	
FY 2007	1,577,941	0.68	JMC, ROCK ISLAND, IL	C/FP	UNKNOWN	UNKNOWN	MAR 07	JUL 08	YES	
FZ PIBD M550 MPTS (EA)										
FY 2005	470,254	6.69	JMC, ROCK ISLAND, IL	C/FP	UNKNOWN	OCT 04	MAR 05	JUL 06	YES	
FY 2006	1,579,049	6.73	JMC, ROCK ISLAND, IL	C/FP	UNKNOWN	UNKNOWN	MAR 06	JUL 07	YES	
FY 2007	1,556,421	6.93	JMC, ROCK ISLAND, IL	C/FP	UNKNOWN	UNKNOWN	MAR 07	JUL 08	YES	
LAP SPITBACK ASSY F/M433(EA)										
FY 2005	10,204	1.47	JMC, ROCK ISLAND, IL	C/FP	UNKNOWN	OCT 04	MAR 05	JUL 06	YES	
FY 2006	34,228	1.49	JMC, ROCK ISLAND, IL	C/FP	UNKNOWN	UNKNOWN	MAR 06	JUL 07	YES	
FY 2007	3,774	1.51	JMC, ROCK ISLAND, IL	C/FP	UNKNOWN	UNKNOWN	MAR 07	JUL 08	YES	
LAP TEST VEHICLE F/M433 (EA)										
FY 2005	10,227	9.68	JMC, ROCK ISLAND, IL	C/FP	UNKNOWN	OCT 04	MAR 05	JUL 06	YES	
FY 2006	34,326	9.73	JMC, ROCK ISLAND, IL	C/FP	UNKNOWN	UNKNOWN	MAR 06	JUL 07	YES	
FY 2007	33,866	10.01	JMC, ROCK ISLAND, IL	C/FP	UNKNOWN	UNKNOWN	MAR 07	JUL 08	YES	
LEAD AZIDE (SP) (LB)										
FY 2005	47	42.55	JMC, ROCK ISLAND, IL	C/FP	UNKNOWN	OCT 04	MAR 05	JUL 06	YES	
FY 2006	158	44.30	JMC, ROCK ISLAND, IL	C/FP	UNKNOWN	UNKNOWN	MAR 06	JUL 07	YES	
FY 2007	156	44.87	JMC, ROCK ISLAND, IL	C/FP	UNKNOWN	UNKNOWN	MAR 07	JUL 08	YES	
M9.003 FLAKE F/40MM (LB)										
FY 2005	370	64.86	JMC, ROCK ISLAND, IL	C/FP	UNKNOWN	OCT 04	MAR 05	JUL 06	YES	
FY 2006	1,241	65.22	JMC, ROCK ISLAND, IL	C/FP	UNKNOWN	UNKNOWN	MAR 06	JUL 07	YES	
FY 2007	1,224	66.94	JMC, ROCK ISLAND, IL	C/FP	UNKNOWN	UNKNOWN	MAR 07	JUL 08	YES	
RDX TYPE II CLASS 3(LB)										
FY 2005	47	42.55	JMC, ROCK ISLAND, IL	C/FP	UNKNOWN	OCT 04	MAR 05	JUL 06	YES	
FY 2006	158	44.30	JMC, ROCK ISLAND, IL	C/FP	UNKNOWN	UNKNOWN	MAR 06	JUL 07	YES	
FY 2007	156	44.87	JMC, ROCK ISLAND, IL	C/FP	UNKNOWN	UNKNOWN	MAR 07	JUL 08	YES	
<b>CTG 40MM HEDP FOR M79/M203 (DODIC B546)</b>										
LAP, COMPLETE ROUND										
FY 2005	82,450	40.57	JMC, ROCK ISLAND, IL	C/FFP	UNKNOWN	OCT 04	MAR 05	APR 06	YES	
FY 2006	92,219	37.66	JMC, ROCK ISLAND, IL	C/FFP	UNKNOWN	UNKNOWN	MAR 06	APR 07	YES	
FY 2007	26,540	70.76	JMC, ROCK ISLAND, IL	C/FFP	UNKNOWN	UNKNOWN	MAR 07	APR 08	YES	
<b>CTG, 40MM BLANK SALUTING (DODIC B650)</b>										
COMPLETE ROUND										
FY 2007	3,309	62.55	UNKNOWN	C/FFP	UNKNOWN	UNKNOWN	DEC 06	JUN 08	NO	
<b>CTG 40MM PRACTICE (DODIC BA12)</b>										
COMPLETE ROUND										
FY 2004	216,000	18.50	NSWC, DAHLGREN, VA	C/FFP	NICO, GERMANY	JUL 04	SEP 04	SEP 05	YES	
FY 2005	227,756	18.59	NSWC, DAHLGREN, VA	C/FFP	NICO, GERMANY	JUL 05	SEP 05	SEP 06	YES	
FY 2006	618,547	19.14	NSWC, DAHLGREN, VA	C/FFP	NICO, GERMANY	UNKNOWN	SEP 06	SEP 07	YES	
FY 2007	608,620	19.72	NSWC, DAHLGREN, VA	C/FFP	NICO, GERMANY	UNKNOWN	SEP 07	SEP 08	YES	

Exhibit P-21, Production Schedule															Date: FEBRUARY 2005																			
Appropriation Code/Budget Activity/Serial Number: Procurement of Ammunition, Navy and Marine Corps/2/Ammunition															Weapon System					P-1 Line Item DODIC and Nomenclature: (105000) DODIC: B542, 40MM, ALL TYPES, HEDP LINKED FOR MK19														
															PRODUCTION RATE					PROCUREMENT LEADTIMES														
Item			Manufacturer's Name and Location												MSR	ECON	MAX	ALT Prior to Oct 1	ALT After to Oct 1	Intitial Mfg PLT	Reorder Mfg PLT	Total	Unit of Measure											
B542			TO BE SELECTED												27	50	100	6	6	16	16	22	M											
															Fiscal Year 2004										Fiscal Year 2005									
															Calendar Year 2004										Calendar Year 2005									
ITEM	F Y	S V C	Q T Y	D E L	B A L	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	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 A L				
B542	04	MC	0.00	0.00	0.00																									0.00				
	05	MC	0.60	0.00	0.60																		A							0.60				
	06	MC	1.53	0.00	1.53																									1.53				
	07	MC	1.51	0.00	1.52																									1.52				
															Fiscal Year 2006										Fiscal Year 2007									
															Calendar Year 2006										Calendar Year 2007									
	F Y	S V C	Q T Y	D E L	B A L	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	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 A L				
B542	04	MC	0.00	0.00	0.00																									0.00				
	05	MC	0.60	0.00	0.60										0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05			0.00				
	06	MC	1.53	0.00	1.53						A																###	0.13	0.13	1.14				
	07	MC	1.51	0.00	1.51																		A							1.51				

Exhibit P-21, Production Schedule														Date: FEBRUARY 2005																
Appropriation Code/Budget Activity/Serial Number: Procurement of Ammunition, Navy and Marine Corps/2/Ammunition														Weapon System P-1 Line Item DODIC and Nomenclature: (105000) DODIC: B542, 40MM, ALL TYPES, HEDP LINKED FOR MK19																
														PRODUCTION RATE			PROCUREMENT LEADTIMES													
Item		Manufacturer's Name and Location				MSR	ECON	MAX	ALT Prior to Oct 1	ALT After to Oct 1	Intitial Mfg PLT	Reorder Mfg PLT	Total	Unit of Measure																
B542		TO BE SELECTED				27	50	100	6	6	16	16	22	M																
														Fiscal Year 2008							Fiscal Year 2009									
														Calendar Year 2008							Calendar Year 2009									
ITEM	F Y	S V C	Q T Y	D E L	B A L	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	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 A L
B542	04	MC	0.00	0.00	0.00																									0.00
	05	MC	0.60	0.60	0.00																									0.00
	06	MC	1.53	0.39	1.14	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.10																0.00
	07	MC	1.51	0.00	1.51										0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.08			0.00
														Fiscal Year 2010							Fiscal Year 2011									
														Calendar Year 2010							Calendar Year 2011									
ITEM	F Y	S V C	Q T Y	D E L	B A L	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	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 A L
B542	04	MC	0.00	0.00	0.00																									0.00
	05	MC	0.60	0.60	0.00																									0.00
	06	MC	1.53	1.53	0.00																									0.00
	07	MC	1.51	1.51	0.00																									0.00

Exhibit P-21, Production Schedule														Date: FEBRUARY 2005																															
Appropriation Code/Budget Activity/Serial Number: Procurement of Ammunition, Navy and Marine Corps/2/Ammunition														Weapon System P-1 Line Item DODIC and Nomenclature: (105000) DODIC: BA12, 40MM, ALL TYPES, PRACTICE																															
														PRODUCTION RATE					PROCUREMENT LEADTIMES																										
Item				Manufacturer's Name and Location										MSR		ECON		MAX		ALT Prior to Oct 1		ALT After to Oct 1		Intitial Mfg PLT		Reorder Mfg PLT		Total		Unit of Measure															
BA12				NICO PYROTECHNIK TRITTAU, GERMANY										10		40		80		3		3		12		12		15		M															
														Fiscal Year 2004										Fiscal Year 2005																					
														Calendar Year 2004										Calendar Year 2005																					
ITEM														F	S	Q	D	B	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	B		
														Y	V	T	E	A	C	O	E	A	E	A	P	A	U	U	U	E	C	O	E	A	E	A	P	A	U	U	U	E	A		
BA12														04	MC	0.22	0.00	0.22																										0.02	0.20
														05	MC	0.23	0.00	0.23																										A	0.21
														06	MC	0.62	0.00	0.62																											0.62
														07	MC	0.61	0.00	0.61																											0.61
														Fiscal Year 2006										Fiscal Year 2007																					
														Calendar Year 2006										Calendar Year 2007																					
														F	S	Q	D	B	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	B		
														Y	V	T	E	A	C	O	E	A	E	A	P	A	U	U	U	E	C	O	E	A	E	A	P	A	U	U	U	E	A		
BA12														04	MC	0.22	0.22	0.00	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.01	0.01																0.00
														05	MC	0.23	0.00	0.23													0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.01		0.00	
														06	MC	0.62	0.00	0.62													A													0.05	0.57
														07	MC	0.61	0.00	0.61																									A	0.60	

Exhibit P-21, Production Schedule															Date: FEBRUARY 2005															
Appropriation Code/Budget Activity/Serial Number: Procurement of Ammunition, Navy and Marine Corps/2/Ammunition										Weapon System					P-1 Line Item DODIC and Nomenclature: (105000) DODIC: BA12, 40MM, ALL TYPES, PRACTICE															
										PRODUCTION RATE					PROCUREMENT LEADTIMES															
Item		Manufacturer's Name and Location			MSR	ECON	MAX	ALT Prior to Oct 1	ALT After to Oct 1	Intitial Mfg PLT	Reorder Mfg PLT	Total	Unit of Measure																	
BA12		NICO PYROTECHNIK TRITTAU, GERMANY			10	40	80	3	3	12	12	15	M																	
Fiscal Year 2008															Fiscal Year 2009															
Calendar Year 2008															Calendar Year 2009															
ITEM	F Y	S V C	Q T Y	D E L	B A L	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	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 A L
BA12	04	MC	0.22	0.22	0.00																									0.00
	05	MC	0.23	0.23	0.00																									0.00
	06	MC	0.62	0.05	0.57	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.07														0.00
	07	MC	0.61	0.61	0.60												0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.06		0.00
Fiscal Year 2010															Fiscal Year 2011															
Calendar Year 2010															Calendar Year 2011															
	F Y	S V C	Q T Y	D E L	B A L	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	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 A L
BA12	04	MC	0.22	0.22	0.00																									0.00
	05	MC	0.23	0.23	0.00																									0.00
	06	MC	0.62	0.62	0.00																									0.00
	07	MC	0.61	0.61	0.00																									0.00

Exhibit P-40, Budget Item Justification	Date: FEBRUARY 2005
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Appropriation Code/Budget Activity/Serial Number: Procurement of Ammunition, Navy and Marine Corps/2/Ammunition	P-1 Item Nomenclature: (108300) 60MM, ALL TYPES
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Program Element for Code B Items:	Other Related Program Elements
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	ID Code	FY2004	FY2005	FY2006	FY2007	FY2008	FY2009	FY2010	FY2011	To Complete	Total Program
Proc Qty											
Gross Cost	A	10,781	12,398	16,224	16,423	16,382	22,558	10,764	9,262		114,792

Description: This line includes 60mm Mortar Ammunition, All Types. FY04 funding includes Congressional plus-ups to support current operations.

The Cartridge, 60mm High Explosive M720 (DODIC B642) is a high explosive round for use in the M224 Lightweight Company Mortar System. It is intended for use against personnel and light materiel targets.

The Cartridge, 60mm High Explosive M888 (DODIC B643) is a high explosive cartridge for use in the 60mm M224 Lightweight Company Mortar System. It is intended for use against personnel and light materiel targets.

The Cartridge, 60mm High Explosive M720A1 (DODIC BA16) with M734A1 Multi-Option Fuze (MOFA) is a high explosive round for use in the M224 Lightweight Company Mortar System. It is intended for use against personnel and light materiel targets.

The Cartridge, 60mm Smoke White Phosphorus (WP) M722 (DODIC B646) is a white phosphorus round for use in the 60mm M224 Lightweight Company Mortar System. It is intended for spotting purposes. Funds for this item are included in the outyear totals for this line item.

Exhibit P-5, Cost Analysis								Date: FEBRUARY 2005				
Appropriation Code/Budget Activity/Serial Number: Procurement of Ammunition, Navy and Marine Corps/2/Ammunition		ID Code: A	P-1 Line Item Nomenclature: (108300) 60MM, ALL TYPES									
WBS COST ELEMENTS	FY04			FY05			FY06			FY07		
	Total Cost	Qty	Unit Cost	Total Cost	Qty	Unit Cost	Total Cost	Qty	Unit Cost	Total Cost	Qty	Unit Cost
<b>HARDWARE:</b>												
<b>CTG, 60MM HE M720 W/MOF (DODIC B642)</b>												
LAP, CTG, 60MM, M720				1.701	23,204	73.29						
FIN ASSEMBLY M27				0.175	23,204	7.56						
FUZE, MO, M734A1				5.537	23,204	238.64						
IGNITION CTG, 60MM, M702				0.429	23,204	18.48						
PROPELLANT CHARGE, 60MM M235				0.653	92,816	7.04						
SHELL BODY, 60MM, HE, M720A1/M768				1.155	23,204	49.79						
<b>CTG, 60MM HE M888 (DODIC B643)</b>												
LAP, CTG, 60MM, M720A1	2.271	65,066	34.90									
COMP A-5 CLASS 1(LB)	0.025	1,951	12.80									
COMP B TYPE 1 GRADE A (LB)	0.081	33,612	2.41									
NITROCELLULOSE WW GR A (LB)	0.145	2,148	67.55									
RDX TYPE II CLASS 3 (LB)	0.416	26,066	15.99									
TNT TYPE I FLAKE (LB)	0.058	26,026	2.22									
CONTAINER ASSY M204 (EA)	0.93	262,866	3.54									
FUZE MPTS M935	1.708	67,688	25.16									
LAP CHG PROP M204	0.35	262,866	1.33									
M10 FLAKE .008 (LB)	0.156	5,207	29.96									
M27 FIN ASSEMBLY	0.594	67,668	8.79									
M207 INGNITION CARTRIDGE	0.964	67,668	14.25									
M720 PROJ MPTS	0.868	67,668	14.83									
M9 FLAKE .008 (LB)	0.044	520	86.96									
M935 FUZE	1.351	53,696	25.16									
<b>PRODUCT</b>												
ACCEPTANCE TESTING	0.025			0.451								
PRODUCTION ENGINEERING	0.085			0.282								
QUALITY ASSURANCE	0.027			1.455								
INTERIM TRANSPORTATION	0.015			0.560								
INDUSTRIAL STOCK SUPPORT	0.047											
GOVERNMENT FURNISHED MATERIAL	-0.769											
<b>Sub Total</b>	<b>9.391</b>			<b>12.398</b>			<b>0.000</b>			<b>0.000</b>		



Exhibit P-5, Cost Analysis												Date: FEBRUARY 2005	
Appropriation Code/Budget Activity/Serial Number: Procurement of Ammunition, Navy and Marine Corps/2/Ammunition		ID Code: A	P-1 Line Item Nomenclature: (108300) 60MM, ALL TYPES										
		FY04			FY05			FY06			FY07		
WBS COST ELEMENTS		Total Cost	Qty	Unit Cost	Total Cost	Qty	Unit Cost	Total Cost	Qty	Unit Cost	Total Cost	Qty	Unit Cost
<b>HARDWARE:</b>													
<b>CTG, 60MM HE M720A1 W/MOF (DODIC BA16)</b>													
LAP, CTG, 60MM, M720A1		0.213	3,000	71.00				2.486	24,544	101.29	2.516	24,401	103.11
FIN ASSEMBLY M27		0.02	3,120	6.41				0.233	25,526	9.13	0.236	25,377	9.30
FUZE, MO, M734A1		0.645	3,120	206.73				7.528	25,526	294.91	7.621	25,377	300.31
IGNITION CTG, 60MM, M702		0.05	3,120	16.03				0.584	25,524	22.88	0.591	25,377	23.29
PROPELLANT CHARGE, 60MM M235		0.075	12,295	6.10				0.875	100,574	8.70	0.886	100,112	8.85
SHELL BODY, 60MM, HE, M720A1/M768		0.135	3,120	43.27				1.576	25,526	61.74	1.595	25,369	62.87
<b>PRODUCT</b>													
ACCEPTANCE TESTING		0.027						0.315			0.32		
PRODUCTION ENGINEERING		0.169						1.973			1.997		
QUALITY ASSURANCE		0.048						0.561			0.57		
INTERIM TRANSPORTATION		0.008						0.093			0.10		
<b>Sub Total</b>		1.390			0.000			16.224			16.423		
<b>P-5 Total</b>		10.781			12.398			16.224			16.423		

Exhibit P-5a, Procurement History and Planning			Weapon System		Date: FEBRUARY 2005					
Appropriation Code/Budget Activity/Serial Number: Procurement of Ammunition, Navy and Marine Corps/2/Ammunition				P-1 Line Item Nomenclature: (108300) 60MM, ALL TYPES						
WBS COST ELEMENTS	Qty	Unit Cost	Location of PCO	Contract Method and Type	Contractor and Location	RFP Issue Date	Award Date	Date of First Delivery	Tech Data Available Now?	Date Revisions Available
<b>CTG, 60MM HE M720 W/MOF (DODIC B642)</b>										
<b>FY 2005</b>										
LAP, CTG, 60MM, M720A1	23,204	73.29	JMC, ROCK ISLAND, IL	C/FP	AMERICAN ORDNANCE MILAN TN	OCT 04	DEC 04	SEP 06	YES	
FIN ASSEMBLY M27	23,204	7.56	JMC, ROCK ISLAND, IL	C/FP	WILKINSON PT CALHOUN, NE	OCT 04	DEC 04	SEP 06	YES	
FUZE, MO, M734A1	23,204	238.64	JMC, ROCK ISLAND, IL	C/FP	BULOVA LANCASTER, PA	OCT 04	DEC 04	SEP 06	YES	
IGNITION CTG, 60MM, M702	23,204	18.48	JMC, ROCK ISLAND, IL	C/FP	AMERICAN ORDNANCE MILAN TN	OCT 04	DEC 04	SEP 06	YES	
PROPELLANT CHARGE, 60MM, M235	92,816	7.04	JMC, ROCK ISLAND, IL	C/FP	AMERICAN ORDNANCE MILAN TN	OCT 04	DEC 04	SEP 06	YES	
SHELL BODY, 60MM, HE, M720A1/M768	23,204	49.79	JMC, ROCK ISLAND, IL	C/FP	MEDICO WILKES-BARRE, PA	OCT 04	DEC 04	SEP 06	YES	
<b>CTG, 60MM HE M888 (DODIC B643)</b>										
<b>FY 2004</b>										
LAP	65,066	34.90	JMC, ROCK ISLAND, IL	SS/FP	AMERICAN ORDNANCE MILAN TN	OCT 03	MAR 04	SEP 06	YES	
COMP A-5 CLASS 1 (LB)	1,951	12.80	JMC, ROCK ISLAND, IL	TBS/TBS	GFM	OCT 03	MAR 04	SEP 06	YES	
COMP B TYPE I GRADE A (LB)	33,612	2.41	JMC, ROCK ISLAND, IL	TBS/TBS	GFM	OCT 03	MAR 04	SEP 06	YES	
NITROCELLULOSE WW BR A (LB)	2,148	67.55	JMC, ROCK ISLAND, IL	TBS/TBS	GFM	OCT 03	MAR 04	SEP 06	YES	
RDX TYPE II CLASS 3 (LB)	26,066	15.99	JMC, ROCK ISLAND, IL	TBS/TBS	GFM	OCT 03	MAR 04	SEP 06	YES	
TNT TYPE I FLAKE (LB)	26,066	2.22	JMC, ROCK ISLAND, IL	TBS/TBS	GFM	OCT 03	MAR 04	SEP 06	YES	
CONTAINER ASSY M204 (EA)	262,866	3.54	JMC, ROCK ISLAND, IL	SS/FP	ARMTEC CHOCELLA CA	OCT 03	MAR 04	SEP 06	YES	
FUZE MPTS M935	67,688	25.16	JMC, ROCK ISLAND, IL	SS/FP	BULOVA LANCASTER, PA	OCT 03	MAR 04	SEP 06	YES	
LAP CHG PROP M204	262,866	1.33	JMC, ROCK ISLAND, IL	SS/FP	AMERICAN ORDNANCE MILAN TN	OCT 03	MAR 04	SEP 06	YES	
M10 FLAKE .008 (LB)	5,207	29.96	JMC, ROCK ISLAND, IL	SS/FP	ALLINANT RADFORD, VA	OCT 03	MAR 04	SEP 06	YES	
M27 FIN ASSEMBLY	67,668	8.79	JMC, ROCK ISLAND, IL	SS/FP	WILKINSON PT CALHOUN, NE	OCT 03	MAR 04	SEP 06	YES	
M702 IGNITION CARTRIDGE	67,668	14.25	JMC, ROCK ISLAND, IL	SS/FP	AMERICAN ORDNANCE MILAN TN	OCT 03	MAR 04	SEP 06	YES	
M720 PROJ MPTS	67,668	14.83	JMC, ROCK ISLAND, IL	SS/FP	MEDICO WILKES-BARRE, PA	OCT 03	MAR 04	SEP 06	YES	
M9 FLAKE .008 (LB)	520	86.96	JMC, ROCK ISLAND, IL	SS/FP	ALLINANT RADFORD, VA	OCT 03	MAR 04	SEP 06	YES	
M935 FUZE	53,696	25.16	JMC, ROCK ISLAND, IL	SS/FP	BULOVA LANCASTER, PA	OCT 03	MAR 04	SEP 06	YES	

24-108300

Exhibit P-5a, Procurement History and Planning	Weapon System	Date: FEBRUARY 2005
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Appropriation Code/Budget Activity/Serial Number: Procurement of Ammunition, Navy and Marine Corps/2/Ammunition	P-1 Line Item Nomenclature: (108300) DODIC: BA16, 60MM, ALL TYPES, HE W/MOF
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WBS COST ELEMENTS	Qty	Unit Cost	Location of PCO	Contract Method and Type	Contractor and Location	RFP Issue Date	Award Date	Date of First Delivery	Tech Data Available Now?	Date Revisions Available
<b>CTG, 60MM HE W/MOF (DODIC BA16)</b>										
<b>FY 2004</b>										
LAP, CTG, 60MM, M720A1	3,000	71.00	ARDEC, PICATINNEY, NJ	C/FP	American Ordnance MILAN TN	OCT 03	SEP 04	MAR 06	YES	
FIN ASSEMBLY M27	3,120	6.41	ARDEC, PICATINNEY, NJ	C/FP	WILKINSON PT CALHOUN, NE	OCT 03	SEP 04	MAR 06	YES	
FUZE, MO, M734A1	3,120	206.73	ARDEC, PICATINNEY, NJ	C/FP	BULOVA LANCASTER, PA	OCT 03	SEP 04	MAR 06	YES	
IGNITION CTG, 60MM, M702	3,120	16.03	ARDEC, PICATINNEY, NJ	C/FP	American Ordnance MILAN TN	OCT 03	SEP 04	MAR 06	YES	
PROPELLANT CHARGE, 60MM, M235	12,295	6.10	ARDEC, PICATINNEY, NJ	C/FP	American Ordnance MILAN TN	OCT 03	SEP 04	MAR 06	YES	
SHELL BODY, 60MM, HE, M720A1/M768	3,120	43.27	ARDEC, PICATINNEY, NJ	C/FP	MEDICO WILKES-BARRE, PA	OCT 03	SEP 04	MAR 06	YES	
<b>FY 2006</b>										
LAP, CTG, 60MM, M720A1	24,544	101.29	ARDEC, PICATINNEY, NJ	C/FP	UNKNOWN	UNKNOWN	SEP 06	MAR 08	NO	
FIN ASSEMBLY M27	25,526	9.13	ARDEC, PICATINNEY, NJ	C/FP	UNKNOWN	UNKNOWN	SEP 06	MAR 08	NO	
FUZE, MO, M734A1	25,526	294.91	ARDEC, PICATINNEY, NJ	C/FP	UNKNOWN	UNKNOWN	SEP 06	MAR 08	NO	
IGNITION CTG, 60MM, M702	25,526	22.88	ARDEC, PICATINNEY, NJ	C/FP	UNKNOWN	UNKNOWN	SEP 06	MAR 08	NO	
PROPELLANT CHARGE, 60MM, M235	100,574	8.70	ARDEC, PICATINNEY, NJ	C/FP	UNKNOWN	UNKNOWN	SEP 06	MAR 08	NO	
SHELL BODY, 60MM, HE, M720A1/M768	25,526	61.74	ARDEC, PICATINNEY, NJ	C/FP	UNKNOWN	UNKNOWN	SEP 06	MAR 08	NO	
<b>FY 2007</b>										
LAP, CTG, 60MM, M720A1	24,401	103.11	ARDEC, PICATINNEY, NJ	C/FP	UNKNOWN	UNKNOWN	SEP 07	MAR 09	NO	
FIN ASSEMBLY M27	25,377	9.30	ARDEC, PICATINNEY, NJ	C/FP	UNKNOWN	UNKNOWN	SEP 07	MAR 09	NO	
FUZE, MO, M734A1	25,377	300.31	ARDEC, PICATINNEY, NJ	C/FP	UNKNOWN	UNKNOWN	SEP 07	MAR 09	NO	
IGNITION CTG, 60MM, M702	25,377	23.29	ARDEC, PICATINNEY, NJ	C/FP	UNKNOWN	UNKNOWN	SEP 07	MAR 09	NO	
PROPELLANT CHARGE, 60MM, M235	100,112	8.85	ARDEC, PICATINNEY, NJ	C/FP	UNKNOWN	UNKNOWN	SEP 07	MAR 09	NO	
SHELL BODY, 60MM, HE, M720A1/M768	25,369	62.87	ARDEC, PICATINNEY, NJ	C/FP	UNKNOWN	UNKNOWN	SEP 07	MAR 09	NO	

Exhibit P-21, Production Schedule	Date: FEBRUARY 2005
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Appropriation Code/Budget Activity/Serial Number: Procurement of Ammunition, Navy and Marine Corps/2/Ammunition	Weapon System	P-1 Line Item DODIC and Nomenclature: (108300) DODIC: BA16, 60MM, ALL TYPES, HE W/MOF
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Item	Manufacturer's Name and Location	PRODUCTION RATE			PROCUREMENT LEADTIMES				Total	Unit of Measure
		MSR	ECON	MAX	ALT Prior to Oct 1	ALT After to Oct 1	Intitial Mfg PLT	Reorder Mfg PLT		
BA16	American Ordnance Milan, TN	150	250	500	12	12	18	18	30	K

Item	Fiscal Year 2004														Fiscal Year 2005															
	Calendar Year 2004														Calendar Year 2005															
	F	S	Q	D	B	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	B
BA16	2004	MC	3.0	0.0	3.0																									3.0
	2005	MC	0.0	0.0	0.0																									0.0
	2006	MC	24.5	0.0	24.5																									24.5
	2007	MC	24.4	0.0	24.4																									24.4

Item	Fiscal Year 2006														Fiscal Year 2007															
	Calendar Year 2006														Calendar Year 2007															
	F	S	Q	D	B	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	B
BA16	2004	MC	3.0	0.0	3.0																									0.0
	2005	MC	0.0	0.0	0.0																									0.0
	2006	MC	24.5	0.0	24.5																									24.5
	2007	MC	24.4	0.0	24.4																									24.4

Exhibit P-21, Production Schedule	Date: FEBRUARY 2005
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Appropriation Code/Budget Activity/Serial Number: Procurement of Ammunition, Navy and Marine Corps/2/Ammunition	Weapon System	P-1 Line Item DODIC and Nomenclature: (108300) DODIC: BA16, 60MM, ALL TYPES, HE W/MOF
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Item	Manufacturer's Name and Location	PRODUCTION RATE			PROCUREMENT LEADTIMES				Total	Unit of Measure
		MSR	ECON	MAX	ALT Prior to Oct 1	ALT After to Oct 1	Intitial Mfg PLT	Reorder Mfg PLT		
BA16	UNKNOWN	150	250	500	12	12	18	18	30	K

Item	Fiscal Year 2008												Fiscal Year 2009																			
	Calendar Year 2008												Calendar Year 2009																			
	F	S	Q	D	B	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	B	A	L
BA16	2004	MC	3.0	3.0	0.0																											0.0
	2005	MC	0.0	0.0	0.0																											0.0
	2006	MC	24.5	0.0	24.5						2.04	2.04	2.04	2.04	2.04	2.04	2.04	2.04	2.04	2.04	2.04	2.06									0.0	
	2007	MC	24.4	0.0	24.4																		2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	10.4	

Item	Fiscal Year 2010												Fiscal Year 2011																			
	Calendar Year 2010												Calendar Year 2011																			
	F	S	Q	D	B	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	B	A	L
BA16	2004	MC	3.0	3.0	0.0																											0.0
	2005	MC	0.0	0.0	0.0																											0.0
	2006	MC	24.5	24.5	0.0																											0.0
	2007	MC	24.4	14.0	10.4	2.0	2.0	2.0	2.0	2.4																						0.0

Exhibit P-40, Budget Item Justification	Date: FEBRUARY 2005
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Appropriation Code/Budget Activity/Serial Number: Procurement of Ammunition, Navy and Marine Corps/2/Ammunition	P-1 Item Nomenclature: (109100) 81MM, ALL TYPES
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Program Element for Code B Items:	Other Related Program Elements
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	ID Code	FY2004	FY2005	FY2006	FY2007	FY2008	FY2009	FY2010	FY2011	To Complete	Total Program
Proc Qty											
Gross Cost	A	18.798	25.222	17.211	33.170	20.339	25.562	26.739	1.768		168.809

Description: This line includes 81mm Mortar Ammunition, All Types.

The Cartridge, 81MM Illuminating Infrared (IR) M816 (DODIC C484) with mechanical time fuze is used in the 81mm M252 mortar system. It is designed to take advantage of the night vision device and reduce friendly forces exposure to the enemy. The physical characteristics of the 81mm IMC are essentially identical to the current M853A1 illuminating cartridge except that it carries an IR filler vice a "white light" illuminate filler.

The Cartridge, 81mm High Explosive (HE) M821/M821A1 (DODIC C868) with Multi-Option Fuze M734 is a high explosive round developed for use in the M252 Improved 81mm Mortar System. It is intended for use against personnel and light materiel targets.

The Cartridge, 81mm High Explosive (HE) M889/M889A1 (DODIC C869) with Point Detonating Fuze M935 is a high explosive round developed for use in the M252 Improved 81mm Mortar System. It is intended for use against personnel and light materiel targets.

The Cartridge, 81mm Smoke Red Phosphorus (RP) M819 with Mechanical Time Super-Quick Fuze M772 (DODIC C870) is a smoke screen round developed for use in the 81mm M252 Mortar System.

The Cartridge, 81mm Illuminating M853A1 (DODIC C871) with Mechanical Time Super-Quick Fuze (MTSQ) M772 is an illuminating round developed for use in the 81mm M252 Mortar System. It is intended for illuminating a desired point or area.

Exhibit P-5, Cost Analysis								Date: FEBRUARY 2005					
Appropriation Code/Budget Activity/Serial Number: Procurement of Ammunition, Navy and Marine Corps/2/Ammunition		ID Code: A	P-1 Line Item Nomenclature: (109100) 81MM, ALL TYPES										
		FY04			FY05			FY06			FY07		
WBS COST ELEMENTS		Total Cost	Qty	Unit Cost	Total Cost	Qty	Unit Cost	Total Cost	Qty	Unit Cost	Total Cost	Qty	Unit Cost
<b>MORTAR, 81MM HE MOF FZ (DODIC C868)</b>													
COMPLETE ROUND								1.362	1,530	890.00	1.362	1,503	906.00
<b>MORTAR, 81MM HE PD FZ (DODIC C869)</b>													
COMPLETE ROUND								8.338	8,346	999.00	19.090	18,770	1017.00
<b>MORTAR, 81 MM IR ILLUM (DODIC C484)</b>													
<b>HARDWARE:</b>													
LAP, CTG 81MM, M816					0.364	5,387	67.57						
BODY TUBE AND TAIL CONE					0.216	6,064	35.62						
FIN ASSEMBLY M27					0.117	6,064	19.29						
FUZE, MTSQ, M772					0.548	6,064	90.37						
IGNITION CTG, M752					0.157	6,064	25.89						
INFRARED ILLUMINANT CANISTER					0.795	6,064	131.10						
PARACHUTE ASSEMBLY					0.125	6,064	20.61						
PROPELLANT CHARGE, 81MM M219					0.149	12,295	6.43						
<b>PRODUCT</b>													
ACCEPTANCE TESTING					0.480								
FIRST DESTINATION TRANSPORTATION					0.143								
INTERIM TRANSPORTATION					0.200								
PRODUCTION ENGINEERING					1.312								
QUALITY ASSURANCE					0.264								
<b>Sub Total</b>		0.000			4.870			9.700			20.452		

Exhibit P-5, Cost Analysis								Date: FEBRUARY 2005					
Appropriation Code/Budget Activity/Serial Number: Procurement of Ammunition, Navy and Marine Corps/2/Ammunition		ID Code: A	P-1 Line Item Nomenclature: (109100) 81MM, ALL TYPES										
		FY04			FY05			FY06			FY07		
WBS COST ELEMENTS		Total Cost	Qty	Unit Cost	Total Cost	Qty	Unit Cost	Total Cost	Qty	Unit Cost	Total Cost	Qty	Unit Cost
MORTAR, 81 MM SMOKE RP (DODIC C870)													
<b>HARDWARE:</b>													
LAP, CTG 81MM, SMOKE RP M819		0.702	2,588	271.25				3.893	13,938	279.31	3.897	13,277	284.93
M9 FLAKE		0.002	60	38.46				0.011	278	39.57	0.010	310	38.46
CONTAINER ASSY M205		0.044	10,352	4.25				0.250	55,752	4.48	0.251	56,432	4.45
FUZE M772		0.377	2,692	140.04				2.367	15,889	148.97	2.294	15,270	147.13
IGN CTG M752		0.075	2,692	27.86				0.467	15,889	29.39	0.445	15,270	29.14
PROP CHARGE		0.019	10,352	2.04				0.119	55,752	2.13	0.116	55,104	2.11
<b>PRODUCT</b>													
ACCEPTANCE TESTING		0.044						0.100			0.074		
INDUSTRIAL STOCK SUPPORT		0.000						0.000			0.010		
INTERIM TRANSPORTATION		0.010						0.008			0.000		
PRODUCTION ENGINEERING		0.052						0.216			0.362		
QUALITY ASSURANCE		0.004						0.080			0.052		
GOVERNMENT FURNISHED MATERIAL													
<b>Sub Total</b>		1.329						7.511			7.511		



Exhibit P-5, Cost Analysis								Date: FEBRUARY 2005					
Appropriation Code/Budget Activity/Serial Number: Procurement of Ammunition, Navy and Marine Corps/2/Ammunition		ID Code: A	P-1 Line Item Nomenclature: (109100) 81MM, ALL TYPES										
		FY04			FY05			FY06			FY07		
WBS COST ELEMENTS		Total Cost	Qty	Unit Cost	Total Cost	Qty	Unit Cost	Total Cost	Qty	Unit Cost	Total Cost	Qty	Unit Cost
<b>MORTAR, 81 MM ILLUM (DODIC C871)</b>													
<b>HARDWARE:</b>													
LAP, CTG 81MM, M853A1		2.116	32,280	65.55	2.360	34,959	67.51				0.621	8,655	71.75
BODY TUBE AND TAIL CONE		1.274	36,893	34.53	1.421	39,956	35.56				0.373	9,867	37.80
FIN ASSEMBLY M27		0.692	36,893	18.76	0.772	39,956	19.32				0.203	9,867	20.57
FUZE, MTSQ, M772		3.238	36,893	87.79	3.613	39,956	90.42				0.947	9,867	95.98
IGNITION CTG, M752		0.927	36,893	25.13	1.034	39,956	25.88				0.271	9,867	27.47
ILLUMINANT CANISTER		4.694	36,893	127.23	5.237	39,956	131.07				1.371	9,867	138.95
PARACHUTE ASSEMBLY		0.740	36,893	20.06	0.825	39,956	20.65				0.217	9,867	21.99
PROPELLANT CHARGE, 81MM M219		0.866	138,801	6.24	0.966	150,325	6.43				0.253	37,217	6.80
<b>PRODUCT</b>													
ACCEPTANCE TESTING		0.430			0.480						0.120		
INDUSTRIAL STOCK SUPPORT		0.128			0.143						0.040		
INTERIM TRANSPORTATION		0.194			0.216						0.060		
PRODUCTION ENGINEERING		1.568			2.615						0.430		
QUALITY ASSURANCE		0.602			0.670						0.301		
<b>Sub Total</b>		17.469			20.352			0.000			5.207		
<b>P-5 Total</b>		18.798			25.222			17.211			33.170		

Exhibit P-5a, Procurement History and Planning			Weapon System			Date: FEBRUARY 2005				
Appropriation Code/Budget Activity/Serial Number: Procurement of Ammunition, Navy and Marine Corps/2/Ammunition					P-1 Line Item Nomenclature: (109100) 81MM, ALL TYPES					
WBS COST ELEMENTS	Qty	Unit Cost	Location of PCO	Contract Method and Type	Contractor and Location	RFP Issue Date	Award Date	Date of First Delivery	Tech Data Available Now?	Date Revisions Available
<b>MORTAR, 81MM HE MOF FZ (DODIC C868)</b>										
FY 2006	1,530	890.00	ARDEC, PICATINNEY, NJ	C/FFP	UNKNOWN	UNKNOWN	DEC 06	MAR 08	YES	
FY 2007	1,503	906.00	ARDEC, PICATINNEY, NJ	C/FFP	UNKNOWN	UNKNOWN	DEC 07	MAR 09	YES	
<b>MORTAR, 81MM HE PD FZ (DODIC C869)</b>										
FY 2006	8,346	999.00	ARDEC, PICATINNEY, NJ	C/FFP	UNKNOWN	UNKNOWN	DEC 06	MAR 08	YES	
FY 2007	18,770	1017.00	ARDEC, PICATINNEY, NJ	C/FFP	UNKNOWN	UNKNOWN	DEC 07	MAR 09	YES	
<b>MORTAR, 81MM ILLUM INFRARED (DODIC C484)</b>										
FY 2005										
LOAD, ASSEMBLE & PACK (LAP)	5,387	67.57	ARDEC, PICATINNEY, NJ	C/FFP	UNKNOWN	OCT 04	MAR 05	SEP 06	YES	
BODY TUBE AND TAIL CONE	6,064	35.62	ARDEC, PICATINNEY, NJ	C?FFP	UNKNOWN	OCT 04	MAR 05	SEP 06	YES	
FIN ASSEMBLY M27	6,064	19.29	ARDEC, PICATINNEY, NJ	C/FFP	UNKNOWN	OCT 04	MAR 05	SEP 06	YES	
FUZE MTSQ M772	6,064	90.37	ARDEC, PICATINNEY, NJ	C/FFP	UNKNOWN	OCT 04	MAR 05	SEP 06	YES	
IGN CARTRIDGE	6,064	25.89	ARDEC, PICATINNEY, NJ	C/FFP	UNKNOWN	OCT 04	MAR 05	SEP 06	YES	
INFRARED ILLUM CANISTER	6,064	131.10	ARDEC, PICATINNEY, NJ	C/FFP	UNKNOWN	OCT 04	MAR 05	SEP 06	YES	
PARACHUTE ASSEMBLY	6,064	20.61	ARDEC, PICATINNEY, NJ	C/FFP	UNKNOWN	OCT 04	MAR 05	SEP 06	YES	
PROPELLANT CHARGE M219	12,295	6.43	ARDEC, PICATINNEY, NJ	C/FFP	UNKNOWN	OCT 04	MAR 05	SEP 06	YES	

Exhibit P-5a, Procurement History and Planning			Weapon System			Date: FEBRUARY 2005					
Appropriation Code/Budget Activity/Serial Number: Procurement of Ammunition, Navy and Marine Corps/2/Ammunition						P-1 Line Item Nomenclature: (109100) 81MM, ALL TYPES					
WBS COST ELEMENTS	Qty	Unit Cost	Location of PCO	Contract Method and Type	Contractor and Location	RFP Issue Date	Award Date	Date of First Delivery	Tech Data Available Now?	Date Revisions Available	
<b>MORTAR, 81MM SMOKE RP (DODIC C870)</b>											
LOAD, ASSEMBLE & PACK (LAP)											
FY 2004	2,588	271.25	ARDEC, PICATINNEY, NJ	C/FFP	PINE BLUFF ARSENAL PINE BLUFF, AR	OCT 03	MAR 04	SEP 05	YES		
FY 2006	13,938	279.31	ARDEC, PICATINNEY, NJ	C/FFP	PINE BLUFF ARSENAL PINE BLUFF, AR	UNKNOWN	MAR 06	SEP 07	YES		
FY 2007	13,277	284.93	ARDEC, PICATINNEY, NJ	C/FFP	PINE BLUFF ARSENAL PINE BLUFF, AR	UNKNOWN	MAR 07	SEP 08	YES		
M9 FLAKE .010 (LBS)											
FY 2004	60	38.46	ARDEC, PICATINNEY, NJ	C/FFP	GFM	OCT 03	MAR 05	SEP 06	YES		
FY 2006	278	39.57	ARDEC, PICATINNEY, NJ	C/FFP	GFM	UNKNOWN	MAR 06	SEP 07	YES		
FY 2007	310	38.46	ARDEC, PICATINNEY, NJ	C/FFP	GFM	UNKNOWN	MAR 07	SEP 08	YES		
CONTAINER											
FY 2004	10,352	4.25	ARDEC, PICATINNEY, NJ	C/FFP	ARMTEC DEFENSE PROD COACHELLA, CA	OCT 03	MAR 04	SEP 05	YES		
FY 2006	55,752	4.48	ARDEC, PICATINNEY, NJ	C/FFP	ARMTEC DEFENSE PROD COACHELLA, CA	UNKNOWN	MAR 06	SEP 07	YES		
FY 2007	56,432	4.45	ARDEC, PICATINNEY, NJ	C/FFP	ARMTEC DEFENSE PROD COACHELLA, CA	UNKNOWN	MAR 07	SEP 08	YES		
FUZE MTSQ M772											
FY 2004	2,692	140.04	ARDEC, PICATINNEY, NJ	C/FFP	JUNGHAMS SCHRAMBERG, GERMANY	OCT 03	MAR 04	SEP 05	YES		
FY 2006	15,889	148.97	ARDEC, PICATINNEY, NJ	C/FFP	JUNGHAMS SCHRAMBERG, GERMANY	UNKNOWN	MAR 06	SEP 07	YES		
FY 2007	15,270	147.13	ARDEC, PICATINNEY, NJ	C/FFP	JUNGHAMS SCHRAMBERG, GERMANY	UNKNOWN	MAR 07	SEP 08	YES		
IGNITION CARTRIDGE											
FY 2004	2,692	27.86	ARDEC, PICATINNEY, NJ	C/FFP	AMERICAN ORDNANCE MILAN, TN	OCT 03	MAR 04	SEP 05	YES		
FY 2006	15,889	29.39	ARDEC, PICATINNEY, NJ	C/FFP	AMERICAN ORDNANCE MILAN, TN	UNKNOWN	MAR 06	SEP 07	YES		
FY 2007	15,270	29.14	ARDEC, PICATINNEY, NJ	C/FFP	AMERICAN ORDNANCE MILAN, TN	UNKNOWN	MAR 07	SEP 08	YES		
PROPELLANT CHARGE M218											
FY 2004	10,352	2.04	ARDEC, PICATINNEY, NJ	C/FFP	AMERICAN ORDNANCE MILAN, TN	OCT 03	MAR 04	SEP 05	NO		
FY 2006	55,752	2.13	ARDEC, PICATINNEY, NJ	C/FFP	AMERICAN ORDNANCE MILAN, TN	UNKNOWN	MAR 06	SEP 07	NO		
FY 2007	55,104	2.11	ARDEC, PICATINNEY, NJ	C/FFP	AMERICAN ORDNANCE MILAN, TN	UNKNOWN	MAR 07	SEP 08	NO		

Exhibit P-5a, Procurement History and Planning		Weapon System			Date: FEBRUARY 2005					
Appropriation Code/Budget Activity/Serial Number: Procurement of Ammunition, Navy and Marine Corps/2/Ammunition				P-1 Line Item Nomenclature: 81MM, ALL TYPES (109100)						
WBS COST ELEMENTS	Qty	Unit Cost	Location of PCO	Contract Method and Type	Contractor and Location	RFP Issue Date	Award Date	Date of First Delivery	Tech Data Available Now?	Date Revisions Available
<b>MORTAR, 81MM ILLUM (DODIC C871)</b>										
<b>FY 2004</b>										
LAP, CTG, 81MM, M853A1	36,343	65.55	ARDEC, PICATINNEY, NJ	C/FFP	PINE BLUFF ARSENAL, PINE BLUFF, AR	OCT 03	MAR 04	SEP 05	YES	
BODY TUBE AND TAIL CONE	36,893	34.53	ARDEC, PICATINNEY, NJ	C/FFP	MEDICO IND, WILKES-BARRE, PA	OCT 03	MAR 04	SEP 05	YES	
FIN ASSEMBLY M27	36,893	18.76	ARDEC, PICATINNEY, NJ	C/FFP	WILKINSON MFG, PORT CALHOUN, NE	OCT 03	MAR 04	SEP 05	YES	
FUZE, MTSQ, M772	36,893	87.77	ARDEC, PICATINNEY, NJ	C/FFP	DIEHL MFG, NUREMBERG, GE	OCT 03	MAR 04	SEP 05	YES	
IGNITION CTG, M752	36,893	25.13	ARDEC, PICATINNEY, NJ	C/FFP	MARTIN ELECTRONICS, PERRY, FL	OCT 03	MAR 04	SEP 05	YES	
ILLUMINANT CANISTER	36,893	127.23	ARDEC, PICATINNEY, NJ	C/FFP	CRANE, AAA, CRANE, IN	OCT 03	MAR 04	SEP 05	YES	
PARACHUTE ASSEMBLY	36,893	20.06	ARDEC, PICATINNEY, NJ	C/FFP	WILKINSON MFG, PORT CALHOUN, NE	OCT 03	MAR 04	SEP 05	YES	
PROPELLANT CHARGE, M219	138,801	6.24	ARDEC, PICATINNEY, NJ	C/FFP	HITECH, EAST CAMDEN, AR	OCT 03	MAR 04	SEP 05	YES	
<b>FY 2005</b>										
LAP, CTG, 81MM, M853A1	32,280	67.51	ARDEC, PICATINNEY, NJ	C/FFP	PINE BLUFF ARSENAL, PINE BLUFF, AR	OCT 04	MAR 05	SEP 06	YES	
BODY TUBE AND TAIL CONE	39,956	35.56	ARDEC, PICATINNEY, NJ	C/FFP	MEDICO IND, WILKES-BARRE, PA	OCT 04	MAR 05	SEP 06	YES	
FIN ASSEMBLY M27	39,956	90.42	ARDEC, PICATINNEY, NJ	C/FFP	WILKINSON MFG, PORT CALHOUN, NE	OCT 04	MAR 05	SEP 06	YES	
FUZE, MTSQ, M772	39,956	90.42	ARDEC, PICATINNEY, NJ	C/FFP	DIEHL MFG, NUREMBERG, GE	OCT 04	MAR 05	SEP 06	YES	
IGNITION CTG, M752	39,956	25.88	ARDEC, PICATINNEY, NJ	C/FFP	MARTIN ELECTRONICS, PERRY, FL	OCT 04	MAR 05	SEP 06	YES	
ILLUMINANT CANISTER	39,956	131.07	ARDEC, PICATINNEY, NJ	C/FFP	CRANE, AAA, CRANE, IN	OCT 04	MAR 05	SEP 06	YES	
PARACHUTE ASSEMBLY	39,956	20.65	ARDEC, PICATINNEY, NJ	C/FFP	WILKINSON MFG, PORT CALHOUN, NE	OCT 04	MAR 05	SEP 06	YES	
PROPELLANT CHARGE, M219	150,325	6.43	ARDEC, PICATINNEY, NJ	C/FFP	HITECH, EAST CAMDEN, AR	OCT 04	MAR 05	SEP 06	YES	

Exhibit P-5a, Procurement History and Planning			Weapon System		Date: FEBRUARY 2005					
Appropriation Code/Budget Activity/Serial Number: Procurement of Ammunition, Navy and Marine Corps/2/Ammunition				P-1 Line Item Nomenclature: (109100) 81MM, ALL TYPES						
WBS COST ELEMENTS	Qty	Unit Cost	Location of PCO	Contract Method and Type	Contractor and Location	RFP Issue Date	Award Date	Date of First Delivery	Tech Data Available Now?	Date Revisions Available
<b>MORTAR, 81MM ILLUM (DODIC C871) (CONTINUED)</b>										
<b>FY 2007</b>										
LAP, CTG, 81MM, M853A1	8,655	71.75	ARDEC, PICATINNEY, NJ	C/FFP	PINE BLUFF ARSENAL, PINE BLUFF, AR	UNKNOWN	MAR 07	SEP 08	YES	
BODY TUBE AND TAIL CONE	9,867	37.80	ARDEC, PICATINNEY, NJ	C/FFP	MEDICO IND, WILKES-BARRE, PA	UNKNOWN	MAR 07	SEP 08	YES	
FIN ASSEMBLY M27	9,867	20.57	ARDEC, PICATINNEY, NJ	C/FFP	WILKINSON MFG, PORT CALHOUN, NE	UNKNOWN	MAR 07	SEP 08	YES	
FUZE, MTSQ, M772	9,867	95.98	ARDEC, PICATINNEY, NJ	C/FFP	DIEHL MFG, NUREMBERG, GE	UNKNOWN	MAR 07	SEP 08	YES	
IGNITION CTG, M752	9,867	27.47	ARDEC, PICATINNEY, NJ	C/FFP	ELECTRONICS, PERRY, FL	UNKNOWN	MAR 07	SEP 08	YES	
ILLUMINANT CANISTER	9,867	138.95	ARDEC, PICATINNEY, NJ	C/FFP	CRANE, AAA, CRANE, IN	UNKNOWN	MAR 07	SEP 08	YES	
PARACHUTE ASSEMBLY	9,867	21.99	ARDEC, PICATINNEY, NJ	C/FFP	WILKINSON MFG, PORT CALHOUN, NE	UNKNOWN	MAR 07	SEP 08	YES	
PROPELLANT CHARGE, M219	37,217	6.80	ARDEC, PICATINNEY, NJ	C/FFP	HITECH, EAST CAMDEN, AR	UNKNOWN	MAR 07	SEP 08	YES	

Exhibit P-21, Production Schedule	Date: FEBRUARY 2005
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Appropriation Code/Budget Activity/Serial Number: Procurement of Ammunition, Navy and Marine Corps/2/Ammunition	Weapon System P-1 Line Item DODIC and Nomenclature: (109100) DODIC: C869, CTG, 81MM HE WITH PD FUZE
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Item	Manufacturer's Name and Location	PRODUCTION RATE			PROCUREMENT LEADTIMES				Total	Unit of Measure
		MSR	ECON	MAX	ALT Prior to Oct 1	ALT After to Oct 1	Intitial Mfg PLT	Reorder Mfg PLT		
C869	PINE BLUFF ARSENAL PINE BLUFF, AR	600	2000	3500	6	6	15	15	21	K

Item	Fiscal Year 2004												Fiscal Year 2005																							
	Calendar Year 2004																								Calendar Year 2005											
	F	S	Q	D	B	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	B						
C869	2004	MC	0.00	0.00	0.00																									0.00						
	2005	MC	0.00	0.00	0.00																									0.00						
	2006	MC	8.35	0.00	8.35																									8.35						
	2007	MC	18.77	0.00	18.77																									18.77						

Item	Fiscal Year 2006												Fiscal Year 2007																							
	Calendar Year 2006																								Calendar Year 2007											
	F	S	Q	D	B	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	B						
C869	2004	MC	0.00	0.00	0.00																									0.00						
	2005	MC	0.00	0.00	0.00																									0.00						
	2006	MC	8.35	0.00	8.35																									8.35						
	2007	MC	18.77	0.00	18.77																									18.77						

Exhibit P-21, Production Schedule	Date: FEBRUARY 2005
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Appropriation Code/Budget Activity/Serial Number: Procurement of Ammunition, Navy and Marine Corps/2/Ammunition	Weapon System	P-1 Line Item DODIC and Nomenclature: (109100) DODIC: C869, CTG, 81MM HE WITH PD FUZE
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Item	Manufacturer's Name and Location	PRODUCTION RATE			PROCUREMENT LEADTIMES				Total	Unit of Measure
		MSR	ECON	MAX	ALT Prior to Oct 1	ALT After to Oct 1	Initial Mfg PLT	Reorder Mfg PLT		
C869	PINE BLUFF ARSENAL PINE BLUFF, AR	600	2000	3500	6	6	15	15	21	K

Item	Fiscal Year 2008												Fiscal Year 2009																							
	Calendar Year 2008																								Calendar Year 2009											
	F	S	Q	D	B	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	B						
C869	2004	MC	0.00	0.00	0.00																								0.00							
	2005	MC	0.00	0.00	0.00																								0.00							
	2006	MC	8.35	0.00	8.35					0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.65								0.00							
	2007	MC	18.77	0.00	18.77			A														1.6	1.6	1.6	1.6	1.6	1.6	1.6	7.57							

Item	Fiscal Year 2010												Fiscal Year 2011																							
	Calendar Year 2010																								Calendar Year 2011											
	F	S	Q	D	B	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	B						
C869	2004	MC	0.00	0.00	0.00																								0.00							
	2005	MC	0.00	0.00	0.00																								0.00							
	2006	MC	8.35	8.35	0.00																								0.00							
	2007	MC	18.77	11.20	7.57	1.6	1.6	1.6	1.6	1.17																			0.00							

Exhibit P-21, Production Schedule	Date: FEBRUARY 2005
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Appropriation Code/Budget Activity/Serial Number: Procurement of Ammunition, Navy and Marine Corps/2/Ammunition	Weapon System P-1 Line Item DODIC and Nomenclature: (109100) DODIC: C871, 81MM, ALL TYPES, ILLUM
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Item	Manufacturer's Name and Location	PRODUCTION RATE			PROCUREMENT LEADTIMES				Total	Unit of Measure
		MSR	ECON	MAX	ALT Prior to Oct 1	ALT After to Oct 1	Intitial Mfg PLT	Reorder Mfg PLT		
C871	PINE BLUFF ARSENAL PINE BLUFF, AR	150	250	500	12	12	18	18	30	K

Item	Fiscal Year 2004												Fiscal Year 2005																							
	Calendar Year 2004																								Calendar Year 2005											
	F Y	S V C	Q T Y	D E L	B A L	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	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 A L						
C871	2004	MC	36.3	0.0	36.3							A																		2.7	33.6					
	2005	MC	35.0	0.0	35.0																	A									35.0					
	2006	MC	0.0	0.0	0.0																										0.0					
	2007	MC	5.5	0.0	5.5																										5.5					

Item	Fiscal Year 2006												Fiscal Year 2007																							
	Calendar Year 2006																								Calendar Year 2007											
	F Y	S V C	Q T Y	D E L	B A L	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	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 A L						
C871	2004	MC	32.3	2.7	29.6	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.6															0.0					
	2005	MC	35.0	0.0	35.0												2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	3.1		35.0					
	2006	MC	0.0	0.0	0.0																										0.0					
	2007	MC	8.7	0.0	8.7																		A								8.7					



Exhibit P-21, Production Schedule															Date: FEBRUARY 2005															
Appropriation Code/Budget Activity/Serial Number: Procurement of Ammunition, Navy and Marine Corps/2/Ammunition										Weapon System					P-1 Line Item DODIC and Nomenclature: (109100) DODIC: C871, 81MM, ALL TYPES, ILLUM															
										PRODUCTION RATE					PROCUREMENT LEADTIMES															
Item			Manufacturer's Name and Location							MSR	ECON	MAX	ALT Prior to Oct 1	ALT After to Oct 1	Intitial Mfg PLT	Reorder Mfg PLT	Total	Unit of Measure												
C871			PINE BLUFF ARSENAL PINE BLUFF, AR							150	250	500	12	12	18	18	30	K												
Fiscal Year 2008															Fiscal Year 2009															
Calendar Year 2008															Calendar Year 2009															
Item	F Y	S V C	Q T Y	D E L	B A L	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	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 A L
C871	2004	MC	32.30	32.30	0.00																									0.00
	2005	MC	35.00	35.00	0.00																									0.00
	2006	MC	0.00	0.00	0.00																									0.00
	2007	MC	8.70	0.00	8.70												0.73	0.73	0.73	0.73	0.73	0.73	0.73	0.73	0.73	0.73	0.73	0.73	0.67	0.00
Fiscal Year 2010															Fiscal Year 2011															
Calendar Year 2010															Calendar Year 2011															
Item	F Y	S V C	Q T Y	D E L	B A L	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	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 A L
C871	04	MC	32.30	32.30	0.00																									0.00
	05	MC	34.96	31.96	0.00																									0.00
	06	MC	12.72	12.72	0.00																									0.00
	07	MC	5.54	5.54	0.00																									0.00

Exhibit P-40, Budget Item Justification								Date: FEBRUARY 2005			
Appropriation Code/Budget Activity/Serial Number: Procurement of Ammunition, Navy and Marine Corps/2/Ammunition					P-1 Item Nomenclature: (112100) 120MM, ALL TYPES						
Program Element for Code B Items:				Other Related Program Elements							
	ID Code	FY2004	FY2005	FY2006	FY2007	FY2008	FY2009	FY2010	FY2011	To Complete	Total Program
Proc Qty											
Gross Cost	A	39.241	15.305	7.231	35.677	50.491	64.898	61.288	97.804		371.935
<p>Description: This line includes 120mm, All Types. The Cartridge, 120mm Target Practice Cartridge with Tracer (TP-T) M831 series (DODIC C784) is a fixed 120mm cartridge which simulates the ballistics of the High Explosive Anti-tank Multi-Purpose with Tracer (HEAT-MP-T) M830 series Cartridge. The M831 series Cartridge with inert projectile is intended for use in the 120mm smooth bore M256 cannon.</p> <p>The Cartridge, 120mm Target Practice Cone Stabilized Discarding Sabot with Tracer (TPCSDS-T) M865 (DODIC C785) is a kinetic energy, target practice round for use with the 120mm smooth bore M256 cannon; and is designed to simulate the service round characteristics at reduced maximum ranges to allow the practice firings on short range proving grounds and training areas.</p> <p>The Cartridge, 120mm HEAT-MP-T M830A1 (DODIC C791) is used in the 120mm smooth bore M256 cannon for anti-tank and air defense capability.</p> <p>The M1002 Target Practice Multi-Purpose Cartridge with Tracer (TPMP-T) (DODIC CA31) is a 120mm Training Cartridge for the tactical M830A1 HEAT-MP-T Cartridge.</p> <p>Main Battle Tank. The XM1028 canister tank cartridge is a tank round comprised of 1150 tungsten balls, which are expelled upon muzzle exit. There is no fuse on this round. While the dispersion pattern increases with range as the velocity of the balls decreases, the dense tungsten balls are used to minimize the velocity fall-off.</p> <p>Expeditionary Fire Support System (EFSS) will be a family of 120mm that will include Illumination, High Explosive, and White Phosphorus munitions. The EFSS will provide all-weather, ground-based, close supporting, accurate, immediately responsive, and lethal indirect fire support for the Marine Air-Ground Task Force (MAGTF). EFSS will be the principal indirect fire support weapon for Marine Expeditionary Units and vertical assault elements of a Ship-To-Objective Maneuver force. EFSS will be capable of successfully engaging a spectrum of potential point and area targets, including motorized, light armored, and dismounted personnel targets, command and control systems, and indirect fire systems.</p>											

Exhibit P-5, Cost Analysis												Date: FEBRUARY 2005	
Appropriation Code/Budget Activity/Serial Number: Procurement of Ammunition, Navy and Marine Corps/2/Ammunition		ID Code: A	P-1 Line Item Nomenclature: (112100) 120MM, ALL TYPES										
		FY04			FY05			FY06			FY07		
WBS COST ELEMENTS		Total Cost	Qty	Unit Cost	Total Cost	Qty	Unit Cost	Total Cost	Qty	Unit Cost	Total Cost	Qty	Unit Cost
<b>CTG, 120MM TP-T M831A1 (DODIC C784)</b>													
LAP, COMPLETE ROUND		1.983	3,213	617.25	1.983	2,939	617.25						
<b>CTG, 120MM TPCSDS-T M865 (DODIC C785)</b>													
LAP, COMPLETE ROUND		3.155	5,891	613.53	4.892	7,776	629.12				4.734	26,696	649.30
<b>CTG, 120MM HEAT-MP-T M830A1 (DODIC C791)</b>													
LAP, COMPLETE ROUND		28.29	4,190	6750.50	7.924	1,256	6311.00				7.000	1,045	6695.34
<b>CTG, 120MM TPMP-T M1002 (DODIC CA31)</b>													
LAP, COMPLETE ROUND		3.000	1,675	1791.04							3.500	1,952	1792.65
<b>CTG, 120MM CANISTER ROUND (DODIC CA38)</b>													
LAP, COMPLETE ROUND											4.500	3,863	1165.00
<b>EXPEDITIONARY FIRE SUPPORT SYSTEM</b>													
SYSTEM UNDERGOING SOURCE SELECTION								7.231			15.929		0.00
<b>PRODUCT</b>													
ACCEPTANCE TESTING		0.459			0.071						0.002		
PRODUCTION ENGINEERING		1.177			0.313						0.010		
QUALITY ASSURANCE		1.177			0.122						0.002		
<b>TOTAL</b>		39.241			15.305			7.231			35.677		

Exhibit P-5a, Procurement History and Planning			Weapon System		Date: FEBRUARY 2005					
Appropriation Code/Budget Activity/Serial Number: Procurement of Ammunition, Navy and Marine Corps/2/Ammunition				P-1 Line Item Nomenclature: (112100) 120MM, ALL TYPES						
WBS COST ELEMENTS	Qty	Unit Cost	Location of PCO	Contract Method and Type	Contractor and Location	RFP Issue Date	Award Date	Date of First Delivery	Tech Data Available Now?	Date Revisions Available
<b>CTG, 120MM TP-T M831A1 (DODIC: C784)</b>										
COMPLETE ROUND M831A1										
FY 2004	3,213	617.25	JMC, ROCK ISLAND, IL	C/FFP	ALLIANT TECH, PLYMOUTH MN	OCT 03	JAN 04	OCT 04	YES	
FY 2005	2,939	617.25	JMC, ROCK ISLAND, IL	C/FFP	ALLIANT TECH, PLYMOUTH MN	OCT 04	JAN 05	OCT 05	YES	
<b>CTG, 120MM TPCSDS-T M865 (DODIC: C785)</b>										
COMPLETE ROUND M831A1										
FY 2004	5,891	613.53	JMC, ROCK ISLAND, IL	C/FFP	ALLIANT TECH, PLYMOUTH MN	OCT 03	JAN 04	OCT 04	YES	
FY 2005	7,776	629.12	JMC, ROCK ISLAND, IL	C/FFP	ALLIANT TECH, PLYMOUTH MN	OCT 04	JAN 05	OCT 05	YES	
FY 2007	26,696	649.30	JMC, ROCK ISLAND, IL	C/FFP	ALLIANT TECH, PLYMOUTH MN	UNKNOWN	JAN 07	OCT 07	YES	
<b>CTG, 120MM HEAT-MP-T M830A1 (DODIC: C791)</b>										
COMPLETE ROUND M830A1										
FY 2004	4,190	6750.50	JMC, ROCK ISLAND, IL	C/FFP	ALLIANT TECH, PLYMOUTH MN	OCT 03	MAR 04	SEP 05	YES	
FY 2005	1,256	6311.00	JMC, ROCK ISLAND, IL	C/FFP	ALLIANT TECH, PLYMOUTH MN	OCT 04	MAR 05	SEP 06	YES	
FY 2007	1,045	6695.34	JMC, ROCK ISLAND, IL	C/FFP	ALLIANT TECH, PLYMOUTH MN	UNKNOWN	MAR 07	SEP 08	YES	
<b>CTG, 120MM TPMP-T M1002 (DODIC: CA31)</b>										
COMPLETE ROUND M1002										
FY 2004	1,675	1791.04	ARDEC, PICATINNY, NJ	C/FFP	ALLIANT TECH, PLYMOUTH MN	OCT 03	OCT 04	NOV 05	YES	
FY 2007	1,952	1792.65	ARDEC, PICATINNY, NJ	C/FFP	ALLIANT TECH, PLYMOUTH MN	UNKNOWN	OCT 07	NOV 08	YES	
<b>EXPEDITIONARY FIRE SUPPORT SYSTEM</b>										
SYSTEM UNDERGOING SOURCE SELECTION										
FY 2006			UNKNOWN	C/FFP	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	NO	
FY 2007			UNKNOWN	C/FFP	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	NO	

Exhibit P-21, Production Schedule											Date: FEBRUARY 2005																															
Appropriation Code/Budget Activity/Serial Number: Procurement of Ammunition, Navy and Marine Corps/2/Ammunition											Weapon System			P-1 Line Item DODIC and Nomenclature: (112100) DODIC: C791, CTG, 120MM HEAT-MP-T M830A1																												
											PRODUCTION RATE			PROCUREMENT LEADTIMES																												
Item											Manufacturer's Name and Location			MSR	ECON	MAX	ALT Prior to Oct 1	ALT After to Oct 1	Intitial Mfg PLT	Reorder Mfg PLT	Total	Unit of Measure																				
C791											ALLIANT TECH, PLYMOUTH, MN			0.1	1	5	6	6	18	18	24	K																				
											Fiscal Year 2004											Fiscal Year 2005																				
											Calendar Year 2004											Calendar Year 2005																				
Item											F	S	Q	D	B	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	B		
											Y	V	T	E	A	C	O	E	A	E	A	P	A	U	U	U	E	C	O	E	A	E	A	P	A	U	U	U	E	A		
C791											04	MC	4.19	0.00	4.19						A																			0.35	3.84	
											05	MC	1.26	0.00	1.26																		A								1.26	
											06	MC	0.00	0.00	0.00																										0.00	
											07	MC	1.05	0.00	1.05																										1.05	
											Fiscal Year 2006											Fiscal Year 2007																				
											Calendar Year 2006											Calendar Year 2007																				
Item											F	S	Q	D	B	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	B		
											Y	V	T	E	A	C	O	E	A	E	A	P	A	U	U	U	E	C	O	E	A	E	A	P	A	U	U	U	E	A		
C791											04	MC	4.19	0.35	3.84	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.34																0.00
											05	MC	1.26	0.00	1.26													0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.05	0.00	
											06	MC	0.00	0.00	0.00																										0.00	
											07	MC	1.05	0.00	1.05																			A							1.05	

Exhibit P-21, Production Schedule										Date: FEBRUARY 2005																							
Appropriation Code/Budget Activity/Serial Number: Procurement of Ammunition, Navy and Marine Corps/2/Ammunition										Weapon System					P-1 Line Item DODIC and Nomenclature: (112100) DODIC: C791, CTG, 120MM HEAT-MP-T M830A1																		
										PRODUCTION RATE					PROCUREMENT LEADTIMES																		
Item			Manufacturer's Name and Location							MSR	ECON	MAX	ALT Prior to Oct 1	ALT After to Oct 1	Intitial Mfg PLT	Reorder Mfg PLT	Total	Unit of Measure															
C791			ALLIANT TECH, PLYMOUTH, MN							0.1	1	5	6	6	18	18	24	K															
										Fiscal Year 2008										Fiscal Year 2009													
										Calendar Year 2008										Calendar Year 2009													
Item			F	S	Q	D	B	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	B	
			Y	V	T	E	A	C	O	E	A	E	A	P	A	U	U	U	E	C	O	E	A	E	A	P	A	U	U	U	E	A	
C791			04	MC	4.19	4.19	0.00																									0.00	
			05	MC	1.26	1.26	0.00																									0.00	
			06	MC	0.00	0.00	0.00																									0.00	
			07	MC	1.05	0.00	1.05													0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.06	0.00	
										Fiscal Year 2010										Fiscal Year 2011													
										Calendar Year 2010										Calendar Year 2011													
Item			F	S	Q	D	B	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	B	
			Y	V	T	E	A	C	O	E	A	E	A	P	A	U	U	U	E	C	O	E	A	E	A	P	A	U	U	U	E	A	
C791			04	MC	4.19	4.19	0.00																										0.00
			05	MC	1.26	1.26	0.00																										0.00
			06	MC	0.00	0.00	0.00																										0.00
			07	MC	1.05	1.05	0.00																										0.00

Exhibit P-40, Budget Item Justification	Date: FEBRUARY 2005
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Appropriation Code/Budget Activity/Serial Number: Procurement of Ammunition, Navy and Marine Corps/2/Ammunition	P-1 Item Nomenclature: (138800) CTG 25MM, ALL TYPES
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Program Element for Code B Items:	Other Related Program Elements
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	ID Code	FY2004	FY2005	FY2006	FY2007	FY2008	FY2009	FY2010	FY2011	To Complete	Total Program
Proc Qty											
Gross Cost	A	3.693	3.734	2.118	6.097	5.698	20.525	5.473	8.385		55.723

Description: The Cartridge, 25mm Dummy M794 Linked (DODIC A967) is used for non-firing system checkout used with the 25mm M242 Automatic Cannon for training of the crew. This M794 Cartridge is a modified M793 Target Practice with Tracer (TP-T) projectile silver brazed to a modified standard cartridge case and is completely inert. The cartridge case cavity is filled through an enlarged primer hole with an epoxy resin filler to approximate the weight of the M792 High Explosive Incendiary-Tracer (HEI-T) and M793 TP-T Service Cartridges. The threaded nose of the TP-T projectile is silver brazed to the projectile body to improve physical integrity. The external configuration of the M794 metal dummy cartridge (by use of standard components) is the same as that of the M792 HEI-T and M793 TP-T Service Cartridges. These cartridges are linked together by the M28 link.

The Cartridge, 25mm APDS-T M791 Linked (DODIC A974) is an Armor-Piercing Discarding Sabot with Tracer (APDS-T) round fired from the M242 Automatic Cannon. This cartridge is a fixed type, percussion primed 25mm ammunition, intended as an armor piercing service round to successfully engage light armored vehicles. The M791 Cartridge consists of a sabot encapsulated projectile body. This body is crimped to a steel cartridge case containing 98 grams of extruded propellant, a M115 Percussion Primer, and a booster pellet. The projectile body consists of a solid tungsten alloy penetrator, pressed-on aluminum windshield, pressed-in tracer pellet, molded discarding type nylon sabot, staked aluminum base and a pressed-on nylon nose cap. The penetrator is spin stabilized and penetrates a target solely by kinetic energy. Funds for this item are included in the outyear totals for this line item.

The Cartridge, 25mm Target Practice-Tracer (TP-T) M793 Linked (DODIC A976) is a target practice cartridge used in training, gun testing, and gun system functioning for the M242 25mm Automatic Cannon. The M793 is a fixed type, percussion primed 25mm projectile, and is intended as a substitute for the 25mm tactical round cartridge. The projectile is painted blue and is inert. The cartridge consists of a hollow, two-piece projectile body, which is crimped to a steel cartridge case containing 99 grams of ball propellant, M115 Percussion Primer, and booster pellet. The body of the projectile consists of a hollow steel body screw-on steel nosepiece, swaged iron-rotating band, and pressed-in tracer pellets. This projectile is configured only as linked ammunition.

The Cartridge, 25mm APFSDS-T M919 Linked (DODIC A986) is an Armor-Piercing Discarding Sabot with Tracer (APFSDS-T) cartridge fired from the M242 Automatic Cannon. This cartridge is a fixed type, percussion primed 25mm ammunition, intended as an armor piercing service round to successfully engage light armored vehicles. The M719 cartridge consists of a subcaliber projectile inside an aluminum sabot crimped to a steel cartridge case containing 98 grams of extruded propellant, a M115 Percussion Primer, and a booster pellet. The subprojectile consists of a depleted uranium penetrator and a threaded aluminum windshield with pressed-in tracer pellets. The three piece aluminum sabot utilizes a nylon obturator and a polyethylene nose cap.

Exhibit P-40, Budget Item Justification	Date: FEBRUARY 2005
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Appropriation Code/Budget Activity/Serial Number: Procurement of Ammunition, Navy and Marine Corps/2/Ammunition	P-1 Item Nomenclature: (138800) CTG 25MM, ALL TYPES
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Program Element for Code B Items:	Other Related Program Elements
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	ID Code	FY2004	FY2005	FY2006	FY2007	FY2008	FY2009	FY2010	FY2011	To Complete	Total Program
Proc Qty											
Gross Cost	A	3.693	3.734	2.118	6.097	5.698	20.525	5.473	8.385		55.723

Description Continuation:

Light Armor Vehicle 25 (DODIC LAV). This funding is being used for the evaluation of advanced technology in the 25MM Family of munitions. The LAV-25 is an all-terrain, all-weather vehicle with night capabilities. It provides strategic mobility to reach and engage the threat, tactical mobility for effective use of fire power, fire power to defeat soft and armored targets, and battlefield survivability to carry out combat missions. It is air transportable via C-130, C-141, C-5 and CH-53 E. When combat loaded there are 210 ready rounds and 420 stowed rounds of 25mm ammunition as well as 400 ready rounds and 1200 stowed rounds of 7.62mm. There are 8 ready rounds and 8 stowed rounds of smoke grenades. A supplementary M240E1 7.62mm machine gun can be pintle-mounted at the commander's station in the turret. The LAV-25 is fully amphibious with a maximum of 3 minutes preparation.



Exhibit P-40a, Budget Item Justification for Aggregated Items	Date: FEBRUARY 2005
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Appropriation Code/Budget Activity/Serial Number: Procurement of Ammunition, Navy and Marine Corps/2/Ammunition	P-1 Item Nomenclature: (138800) CTG 25MM, ALL TYPES
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Procurement Items	ID Code	FY2004	FY2005	FY2006	FY2007					To Complete	Total
Light Armor Vehicle 25 (DODIC LAV)	A	0.000	0.125	0.000	0.000						
		0	0	0	0						
<b>P-40a Total</b>		0.000	0.125	0.000	0.000						

Exhibit P-5, Cost Analysis												Date: FEBRUARY 2005	
Appropriation Code/Budget Activity/Serial Number: Procurement of Ammunition, Navy and Marine Corps/2/Ammunition		ID Code: A	P-1 Line Item Nomenclature: (138800) CTG 25MM, ALL TYPES										
		FY04			FY05			FY06			FY07		
WBS COST ELEMENTS		Total Cost	Qty	Unit Cost	Total Cost	Qty	Unit Cost	Total Cost	Qty	Unit Cost	Total Cost	Qty	Unit Cost
<b>CTG 25MM DUMMY LINKED (DODIC A967)</b>													
COMPLETE ROUND								0.373	11,410	32.69			
<b>CTG, 25MM TP-T LINKED (DODIC A976)</b>													
COMPLETE ROUND		3.558	170,076	20.92	3.609	184,320	19.58	1.745	87,820	19.87	4.746	234,254	20.26
<b>CTG, 25MM APFSDS-T, M919 (DODIC A986)</b>													
COMPLETE ROUND											1.351	13,245	102.00
<b>PRODUCT</b>													
PRODUCTION ENGINEERING		0.135											
<b>P-5 Total</b>		3.693			3.609			2.118			6.097		

Exhibit P-5a, Procurement History and Planning			Weapon System		Date: FEBRUARY 2005					
Appropriation Code/Budget Activity/Serial Number: Procurement of Ammunition, Navy and Marine Corps/2/Ammunition				P-1 Item Nomenclature: (138800) CTG 25MM, ALL TYPES						
WBS COST ELEMENTS	Qty	Unit Cost	Location of PCO	Contract Method and Type	Contractor and Location	RFP Issue Date	Award Date	Date of First Delivery	Tech Data Available Now?	Date Revisions Available
<b>CTG, 25MM DUMMY LINKED (DODIC A967)</b>										
FY 2006	11,410	32.69	JMC,ROCK ISLAND,IL	C/FFP	UNKNOWN	UNKNOWN	DEC 06	MAY 08	YES	
<b>CTG, 25MM TP-T LINKED (DODIC A976)</b>										
FY 2004	170,076	20.92	JMC,ROCK ISLAND,IL	C/FFP	GENERAL DYNAMICS RADFORD, VA	OCT 03	MAR 04	MAR 05	YES	
FY 2005	184,320	19.58	JMC,ROCK ISLAND,IL	C/FFP	UNKNOWN	OCT 04	MAR 05	MAR 06	YES	
FY 2006	87,820	19.87	JMC,ROCK ISLAND,IL	C/FFP	UNKNOWN	UNKNOWN	MAR 06	MAR 07	YES	
FY 2007	234,254	20.26	JMC,ROCK ISLAND,IL	C/FFP	UNKNOWN	UNKNOWN	MAR 07	MAR 08	YES	
<b>CTG, 25MM APFSDS-T, M919 (DODIC A986)</b>										
FY 2007	13,245	102.00	JMC,ROCK ISLAND,IL	C/FFP	UNKNOWN	UNKNOWN	MAR 07	MAR 08	YES	

Exhibit P-40, Budget Item Justification							Date: FEBRUARY 2005				
Appropriation Code/Budget Activity/Serial Number: Procurement of Ammunition, Navy and Marine Corps/2/Ammunition				P-1 Item Nomenclature: (142800) 9MM, ALL TYPES							
Program Element for Code B Items:				Other Related Program Elements							
	ID Code	FY2004	FY2005	FY2006	FY2007	FY2008	FY2009	FY2010	FY2011	To Complete	Total Program
Proc Qty											
Gross Cost	A	2.552	7.615	0.000	2.290	1.211	5.719	0.000	2.270		21.657
<p>Description: The Cartridge, 9mm Jacketed Hollow Point JHP (DODIC A260) ammunition is a 9mm cartridge that produces a subsonic velocity and may be used in M9 Pistols and MP5N Submachine Guns. The cartridge has a brass case and a bullet consisting of a copper alloy jacket and lead-antimony slug. It can be identified by its jacketed hollow point configuration. Funds for this item are included in the outyear totals for this line item.</p> <p>The Cartridge, 9mm Training-Practice Tracer (TP-T) M939 for Anti-Tank-4 (AT-4) (DODIC A358) is intended for use in the M287 Target Practice Launcher for training on the M136 (AT-4) Anti-Tank weapon. This cartridge is the only authorized ammunition for use in the M287 Target Practice Launcher. The cartridge has a lighter propellant charge than other 9x19mm small arms cartridges which enables it to duplicate the ballistic trajectory of the M136 High Explosive Anti-Tank (HEAT) round to 400 meters. The projectile of the 9mm M939 has a tracer element which allows the user to visually observe the flight of the projectile to the impact point. The cartridge is visually distinguished from other 9x19mm cartridges by its unique color identification marks. The M939 Cartridge has a red tip, a white band around the case mouth, and one half of the cartridge base is painted black.</p> <p>The Cartridge, 9mm Ball M882 (DODIC A363) is intended for use against enemy personnel and for security purposes. This cartridge may be used in the M9 Service Pistol and the MP5N Submachine Gun. The M882 Ball consists of a brass cartridge case, a primer, propellant, and a plain bullet tip.</p> <p>The Cartridge, 9mm Red Marking (DODIC AA12) is utilized with the M4A1 Carbine, Sig Sauer P226 Pistol, MP5 Submachine Gun and M9 Special Effects Small Arms Marking System (SESAMS) Adapter Kits. Weapons fitted with the training adapters will operate semi or full automatic simulating live fire. The intended use for this cartridge is to provide enhanced training by allowing force-on-force training versus firing at silhouette on impact. When the projectile impacts a target, the plastic projectile sheath breaks and detergent marks the target, thus indicating a hit. This cartridge consists of a composite brass/plastic cartridge case loaded with a plastic projectile filled with a fluorescent red, detergent based, non-toxic, washable, inert paste and is propelled by a conventional lead styphnate primer containing approximately .02 grams of GBSE propellant.</p> <p>The Cartridge, 9mm Blue Marking (DODIC AA21) is utilized with the M4A1 Carbine, Sig Sauer P226 Pistol, MP5 Submachine Gun and M9 Special Effects Small Arms Marking System (SESAMS) Adapter Kits. Weapons fitted with the training adapters will operate semi or full automatic simulating live fire. The intended use for this cartridge is to provide enhanced training by allowing force-on-force training versus firing at silhouette on impact. When the projectile impacts a target, the plastic projectile sheath breaks and detergent marks the target, thus indicating a hit. This cartridge consists of a composite brass/plastic cartridge case loaded with a plastic projectile filled with a fluorescent blue, detergent based, non-toxic, washable, inert paste and is propelled by a conventional lead styphnate primer containing approximately .02 grams of GBSE propellant.</p> <p>Weapons fitted with the M9 Special Effects Small Arms Marking System (SESAMS) Adapter Kit will operate semi or full automatic simulating live fire. The intended use for the SESAMS is to provide enhanced simulated automatic live fire training by allowing force-on-force training versus firing at silhouette on impact. When the round impacts a target, the plastic projectile sheath breaks and detergent marks the target, thus indicating a hit.</p>											

Exhibit P-40a, Budget Item Justification for Aggregated Items

Date:  
FEBRUARY 2005

Appropriation Code/Budget Activity/Serial Number:  
Procurement of Ammunition, Navy and Marine Corps/2/Ammunition

P-1 Item Nomenclature:  
(142800) 9MM, ALL TYPES

Procurement Items	ID Code	FY2004	FY2005	FY2006	FY2007					To Complete	Total
9MM SESAMS (RED) (DODIC AA12)	A	0.734	1.800	0.000	1.203						
QTY		1,668,181	4,500,000	0	2,653,333						
9MM SESAMS (BLUE) (DODIC AA21)	A	0.752	1.600	0.000	1.087						
QTY		1,709,090	4,000,000	0	2,415,555						
SESAMS, SPC EFFECTS SMALL ARMS MK SYS	A	0.000	0.134	0.000	0.000						
QTY		0	335,000	0	0						
P-40a Total		1.486	3.534	0.000	2.290						

Exhibit P-5, Cost Analysis								Date: FEBRUARY 2005					
Appropriation Code/Budget Activity/Serial Number: Procurement of Ammunition, Navy		ID Code:	P-1 Line Item Nomenclature: (142800) 9MM, ALL TYPES										
		FY04			FY05			FY06			FY07		
WBS COST ELEMENTS		Total Cost	Qty	Unit Cost	Total Cost	Qty	Unit Cost	Total Cost	Qty	Unit Cost	Total Cost	Qty	Unit Cost
<b>9MM BALL (DODIC A363)</b>													
LOAD ASSEMBLY & PACK (LAP)		0.866	10,825,000	0.08	3.396	37,733,333	0.09						
<b>PRODUCT</b>													
ACCEPTANCE TESTING		0.021			0.07								
PRODUCTION ENGINEERING		0.147			0.506								
QUALITY ASSURANCE		0.032			0.109								
<b>P-5 Total</b>		<b>1.066</b>			<b>4.081</b>			<b>0.000</b>			<b>0.000</b>		

Exhibit P-5a, Procurement History and Planning				Weapon System			Date: FEBRUARY 2005			
Appropriation Code/Budget Activity/Serial Number: Procurement of Ammunition, Navy and Marine Corps/2/Ammunition				P-1 Line Item Nomenclature: (142800) 9MM, ALL TYPES						
WBS COST ELEMENTS	Qty	Unit Cost	Location of PCO	Contract Method and Type	Contractor and Location	RFP Issue Date	Award Date	Date of First Delivery	Tech Data Available Now?	Date Revisions Available
<b>9MM BALL (DODIC A363)</b>										
<b>FY2004</b>										
LOAD ASSEMBLY & PACK (LAP)	10,825,000	0.08	JMC, ROCK ISLAND, IL	SS/FP	ALLIANT TECH INDEPDENCE, MO	OCT 03	JAN 04	JUL 04	NO	
<b>FY2005</b>										
LOAD ASSEMBLY & PACK (LAP)	37,733,333	0.09	JMC, ROCK ISLAND, IL	SS/FP	ALLIANT TECH INDEPDENCE, MO	OCT 04	JAN 05	JUL 05	NO	

Exhibit P-40, Budget Item Justification								Date: FEBRUARY 2005			
Appropriation Code/Budget Activity/Serial Number: Procurement of Ammunition, Navy and Marine					P-1 Item Nomenclature: (146800) GRENADES, ALL TYPES						
Program Element for Code B Items:					Other Related Program Elements						
	ID Code	FY2004	FY2005	FY2006	FY2007	FY2008	FY2009	FY2010	FY2011	To Complete	Total Program
Proc Qty											
Gross Cost	A	6.983	5.022	5.315	7.564	8.932	0.469	0.763	3.606		38.654
<p>Description: This line includes Grenades, All Types. The Grenade, Launcher Smoke Infrared (IR) Screening M76 (DODIC G826) is used with the M250, M239, M243 Grenade Launchers installed on tanks, AAVs, and LAVs to provide infrared and visual smoke screening for armored/tactical vehicles in combat situations. The grenade has a plastic cylindrical main body. The plastic body houses the IR composition, burster, booster lead, and safe and arming (S&amp;A) mechanism. The S&amp;A mechanism consists of a spring-loaded slider/bore rider containing the explosive lead and a spring-loaded setback lock. A propellant assembly is retained in the body forming the complete grenade. The propellant assembly includes a pyrotechnic delay detonator, launch propellant, an electric match, and a propellant retainer with electrical contacts. When electrically initiated, the match activates and ignites the propellant and delay elements. Expanding gases propel the grenade from the launch tube.</p> <p>The Fuze, Hand Grenade Practice M228 (DODIC G878) is a pyrotechnic delay-igniting fuze. DODIC G878 is used with the Grenade, Hand Practice M69 (DODIC G811). The fuze contains a primer and a pyrotechnic delay column. Assembled to the fuze is a striker, striker spring, safety lever, safety pin with pull ring, safety clip, and igniter assembly. The split end of the safety pin has an angular spread or a diamond crimp.</p> <p>The Grenade, Hand Fragmentation M67 (DODIC G881) is used to supplement small arms fire against the enemy in close combat. The grenade produces casualties by high velocity projection of fragments in a uniform distribution pattern. The grenade body is a 2.5-inch diameter steel sphere that is designed to fragment when detonated. The grenade body contains 6.5 ounces of Composition B high explosive. This grenade is fuzed with the M213 Pyrotechnic Delay-detonating Fuze. It is designed to function the grenade 4 to 5.1 seconds after release of the safety lever. The body of the fuze contains a primer and a pyrotechnic delay column. Assembled to the body are a striker, a striker spring, a safety lever, a safety pin and pull ring, a safety clip, and a detonator assembly. The M213 Fuze is equipped with two safety features.</p> <p>The Grenade, Hand Green Smoke M18 (DODIC G940) is used for screening, marking, and signaling. Each grenade will emit smoke for 50 to 135 seconds. The body of thin sheet metal is filled with a green smoke composition and topped with a starter mixture. The M201A1 Fuze is a pyrotechnic delay-igniting fuze. The body contains a primer, first fire mixture, pyrotechnic delay column, and ignition mixture. Assembled to the body are a striker, striker spring, safety lever, and safety pin with pull ring. The split end of the safety pin has an angular spread. Safety clips are not required with these grenades. Removal of the safety pin permits release of the safety lever. When the safety lever is released, a striker acting under the force of a striker spring forces it away from the grenade body. The striker rotates on its own axis and strikes the percussion primer. The primer initiates the first fire mixture, initiating the grenade.</p>											



Exhibit P-40, Budget Item Justification								Date: FEBRUARY 2005			
Appropriation Code/Budget Activity/Serial Number: Procurement of Ammunition, Navy and Marine Corps/2/Ammunition						P-1 Item Nomenclature: (146800) GRENADES, ALL TYPES					
Program Element for Code B Items:				Other Related Program Elements							
	ID Code	FY2004	FY2005	FY2006	FY2007	FY2008	FY2009	FY2010	FY2011	To Complete	Total Program
Proc Qty											
Gross Cost	A	6.983	5.022	5.315	7.564	8.932	0.469	0.763	3.606		38.654
<p>Continued: The Grenade, Hand Yellow Smoke M18 (DODIC G945) is used for screening, marking, and signaling. Each grenade will emit smoke for 50 to 135 seconds. The body of thin sheet metal is filled with yellow smoke composition and topped with a starter mixture. The M201A1 Fuze is a pyrotechnic delay-igniting fuze. The body contains a primer, first fire mixture, pyrotechnic delay column, and ignition mixture. Assembled to the body are a striker, striker spring, safety lever, and safety pin with pull ring. The split end of the safety pin has an angular spread. Safety clips are not required with these grenades. Removal of the safety pin permits release of the safety lever. When the safety lever is released, a striker acting under the force of a striker spring forces it away from the grenade body. The striker rotates on its own axis and strikes the percussion primer. The primer initiates the first fire mixture, initiating the grenade.</p> <p>The Riot Control Agent, CS (DODIC K765) is a riot control agent capsule that consists of ortho-chlorobenzylidene malano-nitrile. The CS is ground to a particle size of less than 840 microns. The filled capsule weighs about 0.82 grams. The capsules are used to demonstrate to trainees the protection effort afforded by properly fitted chemical-biological masks, and to demonstrate to unmasked trainees the effects of CS riot control agents.</p> <p>The Floating Smoke Pot (FSP DODIC KM03) is a new item being procured using the Foreign Comparative Test (FCT) Program to replace older variants of smoke pots. This round is designed to screen personnel and equipment movement and will replace current systems with a non-toxic smoke payload and enhanced fuze.</p> <p>The Signal, Illumination Ground White Star Cluster M159 (DODIC L307) is a rocket propelled, fin stabilized, hand launched, nighttime/daytime signaling device. When fired vertically, the signals project to an altitude of approximately 700-800 feet and produce five illuminant "stars" that burn for 6 seconds (minimum). The signal consists of a five star illuminant assembly and a rocket motor propulsion assembly contained in a hand held aluminum launching tube. The base of the launching tube contains a primer and initiating charge. As shipped, the firing pin cap is placed on the forward/open end and must be removed and placed on the primer end (indicated by a red colored stripe) for firing. Stabilizing fins on the rocket are folded parallel to the axis of the signal.</p> <p>The Signal, Illumination Ground White Star Parachute M127A1 (DODIC L312) is a rocket propelled, fin stabilized, hand launched, nighttime/daytime signaling device. When fired vertically, the signal projects to an altitude of approximately 700-800 feet, producing a parachute suspended star that burns for approximately 25 seconds (minimum). The M127A1 Signal consists of a parachute suspended illuminant assembly and a rocket motor propulsion assembly contained in a hand-held aluminum launching tube. The base of the launching tube contains a primer and an initiating charge. As shipped, the firing pin cap is placed on the forward/open end and must be removed and placed on the primer end (indicated by a red colored stripe) for firing. Stabilizing fins on the rocket are folded parallel to the axis of the signal.</p>											

Exhibit P-40, Budget Item Justification								Date: FEBRUARY 2005			
Appropriation Code/Budget Activity/Serial Number: Procurement of Ammunition, Navy and Marine Corps/2/Ammunition						P-1 Item Nomenclature: (146800) GRENADES, ALL TYPES					
Program Element for Code B Items:				Other Related Program Elements							
	ID Code	FY2004	FY2005	FY2006	FY2007	FY2008	FY2009	FY2010	FY2011	To Complete	Total Program
Proc Qty											
Gross Cost	A	6.983	5.022	5.315	7.564	8.932	0.469	0.763	3.606		38.654
<p>Continued: The Signal, Smoke and Illumination Marine MK124 Mod 0 (DODIC L283) is used for either day or night signaling, as appropriate, by personnel on land or sea. The signal is a one-handed operable device, intended for rescue use. This signal consists of an aluminum case with two raised beads around its circumference on the flare (night) end. These beads positively identify the flare end, by the sense of touch, for night-time use. A label attached to the outer surface of the case further identifies the smoke (day) and flare (night) ends and provides precise instructions for use. The case contains four sub assemblies; smoke candle, smoke igniter, flare candle, and flare igniter.</p> <p>The Signal, Illumination Ground Green Star Cluster M125A1 (DODIC L314) is a rocket propelled, fin stabilized, hand launched, nighttime/daytime signaling device. When fired vertically, the signals project to an altitude of approximately 700-800 feet and produce five illuminant "stars" that burn for 6 seconds (minimum). The M125A1 Signal consists of a five star illuminant assembly and a rocket motor propulsion assembly contained in a hand-held aluminum launching tube. The base of the launching tube contains a primer and an initiating charge. As shipped, the firing pin cap is placed on the forward/open end and must be removed and placed on the primer end for firing. Stabilizing fins on the rocket are folded parallel to the axis of the signal.</p> <p>The Simulator, Target Hit M25 (DODIC L709) is used to notify the gunner and crew on live-fire ranges that a target has been hit by producing a flash spray. This simulator consists of an outer plastic container with a protective cap taped to it. Under the protective cap are ignition wires and a plug. The plastic container is filled with a pyrotechnic charge and is initiated electrically.</p> <p>The Main Gun Signature Simulator (MGSS) (DODIC LA06) cartridge is used with the Multiple Integrated Laser Engagement Simulator (MILES) 2000 system to simulate main gun, tank, and artillery fire during training. This is a newly fielded item and is currently pending safety release. Currently, all Marine Corps assets are in Condition Code "D".</p>											

Exhibit P-40a, Budget Item Justification for Aggregated Items										Date: FEBRUARY 2005	
Appropriation Code/Budget Activity/Serial Number: Procurement of Ammunition, Navy and Marine Corps/2/Ammunition					P-1 Item Nomenclature: (146800) GRENADES, ALL TYPES						
	ID Code	FY2004	FY2005	FY2006	FY2007					To Complete	Total
RIOT CONTROL AGENT, CS CAPSULE (DODIC K765)	A	0.000	0.035	0.000	0.000						
QTY		0	87,500	0	0						
KM03 SMOKE POT, FLOATING, RP (DODIC KM03)	A	0.651	0.000	0.290	0.333						
QTY		504	0	341	392						
TOTAL		0.651	0.035	0.290	0.333						

Exhibit P-5, Cost Analysis								Date: FEBRUARY 2005					
Appropriation Code/Budget Activity/Serial Number: Procurement of Ammunition, Navy and Marine Corps/2/Ammunition		ID Code: A	P-1 Line Item Nomenclature: (146800) GRENADES, ALL TYPES										
		FY04			FY05			FY06			FY07		
WBS COST ELEMENTS		Total Cost	Qty	Unit Cost	Total Cost	Qty	Unit Cost	Total Cost	Qty	Unit Cost	Total Cost	Qty	Unit Cost
<b>GRENADE,LAUNCHER SMOKE IR/M76 (DODIC G826)</b>													
COMPLETE ROUND					0.911	12,177	90.00				0.369	3,690	100.00
<b>FUZE,GRENADE HAND PRACT, M228 (DODIC G878 )</b>													
COMPLETE ROUND		4.513	1,397,213	3.23				4.156	937,802	4.55	4.452	658,561	4.88
<b>GRENADE, HAND FRAG M67 (DODIC G881)</b>													
COMPLETE ROUND					3.703	140,028	27.19						
<b>GRENADE, HAND SMOKE GREEN M18 (DODIC G940)</b>													
COMPLETE ROUND		0.673	24,364	38.79				0.523	14,538	41.41	0.705	14,538	42.65
<b>GRENADE, HAND SMOKE YELLOW M18 (DODIC G945)</b>													
COMPLETE ROUND		0.776	20,357	38.02							0.615	18,946	43.65
<b>SIGNAL SMOKE 7 ILLUM MK124MOD 0 (L283)</b>													
<b>HARDWARE:</b>													
COMPLETE ROUND											0.482	9,701	52.78
<b>SIMULATOR, TANK MAIN GUN M30 (DODIC LA06)</b>													
COMPLETE ROUND								0.070	23,841	3.02	0.070	22,508	3.11
<b>PRODUCT</b>													
INDUSTRIAL STOCK SUPPORT		0.036			0.035			0.025			0.001		
PRODUCTION ENGINEERING		0.325			0.256			0.152			0.431		
QUALITY ASSURANCE		0.009			0.082			0.099			0.106		
<b>TOTAL</b>		6.332			4.987			5.025			7.231		

Exhibit P-5a, Procurement History and Planning		Weapon System			Date: FEBRUARY 2005					
Appropriation Code/Budget Activity/Serial Number: Procurement of Ammunition, Navy and Marine Corps/2/Ammunition				P-1 Line Item Nomenclature: (146800) GRENADES, ALL TYPES						
WBS COST ELEMENTS	Qty	Unit Cost	Location of PCO	Contract Method and Type	Contractor and Location	RFP Issue Date	Award Date	Date of First Delivery	Tech Data Available Now?	Date Revisions Available
<b>GRENADE,LAUNCHER SMOKE IR/M76(DODIC G826)</b>										
LAP, COMPLETE ROUND G826										
FY 2005	12,177	90.00	JMC, ROCK ISLAND, IL	C/FFP	UNKNOWN	OCT 04	SEP 06	MAR 08	YES	
FY 2007	3,690	100.00	JMC, ROCK ISLAND, IL	C/FFP	UNKNOWN	UNKNOWN	SEP 08	MAR 10	YES	
<b>FUZE,GRENADE HAND PRACT M228(DODIC G878)</b>										
LAP, COMPLETE ROUND G878										
FY 2004	1,397,213	3.23	JMC, ROCK ISLAND, IL	C/FFP	MARTIN ELECTRONICS INDUSTRIES PERRY, FL	OCT 03	SEP 05	MAR 06	YES	
FY 2006	937,802	4.55	JMC, ROCK ISLAND, IL	C/FFP	MARTIN ELECTRONICS INDUSTRIES PERRY, FL	UNKNOWN	SEP 07	MAR 08	YES	
FY 2007	658,561	4.88	JMC, ROCK ISLAND, IL	C/FFP	MARTIN ELECTRONICS INDUSTRIES PERRY, FL	UNKNOWN	SEP 08	MAR 09	YES	
<b>GRENADE,HAND FRAG M67(DODIC G881)</b>										
LAP, COMPLETE ROUND G881										
FY 2005	140,028	9.67	JMC, ROCK ISLAND, IL	C/FFP	UNKNOWN	OCT 04	MAR 05	JAN 06	NO	
<b>GRENADE,HAND SMOKE GREEN M18(DODIC G940)</b>										
LAP, COMPLETE ROUND G940										
FY 2004	24,364	38.79	JMC, ROCK ISLAND, IL	C/FFP	AAP PINE BLUFF AR	OCT 03	SEP 04	MAR 06	YES	
FY 2006	14,538	41.41	JMC, ROCK ISLAND, IL	C/FFP	AAP PINE BLUFF AR	UNKNOWN	SEP 06	MAR 08	YES	
FY 2007	14,538	42.65	JMC, ROCK ISLAND, IL	C/FFP	AAP PINE BLUFF AR	UNKNOWN	SEP 07	MAR 09	YES	

Exhibit P-5a, Procurement History and Planning				Weapon System		Date: FEBRUARY 2005				
Appropriation Code/Budget Activity/Serial Number: Procurement of Ammunition, Navy and Marine Corps/2/Ammunition				P-1 Line Item Nomenclature: (146800) GRENADES, ALL TYPES						
WBS COST ELEMENTS	Qty	Unit Cost	Location of PCO	Contract Method and Type	Contractor and Location	RFP Issue Date	Award Date	Date of First Delivery	Tech Data Available Now?	Date Revisions Available
<b>GRENADE,HAND SMOKE YELLOW M18 (DODIC G945)</b>										
LAP, COMPLETE ROUND G945										
<b>FY 2004</b>	20,357	38.02	JMC, ROCK ISLAND, IL	C/FFP	AAP PINE BLUFF AR	OCT 03	SEP 05	MAR 07	YES	
<b>FY 2007</b>	18,946	43.65	JMC, ROCK ISLAND, IL	C/FFP	AAP PINE BLUFF AR	UNKNOWN	SEP 07	MAR 09	YES	
<b>SIGNAL, MARINE SMOKE ILLUM MK124 (L283)</b>										
LAP, COMPLETE ROUND L283										
<b>FY 2007</b>	9,701	52.78	JMC, ROCK ISLAND, IL	C/FFP	MARTIN ELECTRONICS INDUSTRIES PERRY, FL	UNKNOWN	SEP 07	MAR 09	YES	
<b>SIMULATOR, TANK MAIN GUN M30 (DODIC LA06)</b>										
LAP, COMPLETE ROUND LA06										
<b>FY 2006</b>	23,841	3.02	JMC, ROCK ISLAND, IL	C/FFP	UNKNOWN	UNKNOWN	SEP 06	MAR 08	YES	
<b>FY 2007</b>	22,508	3.11	JMC, ROCK ISLAND, IL	C/FFP	UNKNOWN	UNKNOWN	SEP 07	MAR 09	YES	

Exhibit P-40, Budget Item Justification	Date: FEBRUARY 2005
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Appropriation Code/Budget Activity/Serial Number: Procurement of Ammunition, Navy and Marine Corps/2/Ammunition	P-1 Item Nomenclature: (147100) ROCKETS, ALL TYPES
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Program Element for Code B Items:	Other Related Program Elements
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	ID Code	FY2004	FY2005	FY2006	FY2007	FY2008	FY2009	FY2010	FY2011	To Complete	Total Program
Proc Qty											
Gross Cost	A	19.384	21.267	0.000	6.653	10.002	13.737	17.046	15.223		103.312

Description: This line includes Rockets, All Types.

The cartridge and launcher, 84mm M136 AT-4 (DODIC C995) is mainly employed against armored personnel carriers; it can be used against battle tanks when fired at the flanks or rear; and employed as an assault weapon against bunkers, field fortifications, and other hard-point positions. Issued as one round of ammunition, the AT-4 tactical round is a self-contained, lightweight, disposable weapon.

The Rocket, 83mm Assault MK3, Mod 0 (SMAW) (DODIC HX05) is designed for use against reinforced concrete, sandbag and timber bunkers, brick and block walls, and lightly armored vehicles.

The Rocket, 83mm High Explosive Anti-Armor (MEAA) MK6, Mod 0 (SMAW) (HX06) is designed especially for use against main battle tanks and other armored vehicles. Both the HX05 and HX06 are unguided, dual mode, high explosive rockets contained in a disposable one-shot rocket container.

The Rocket, High Explosive, 66mm M72A7 (DODIC HA29) is a lightweight, single shot, disposable weapon optimized to defeat lightly armored vehicles and other hard targets at close combat ranges.

Exhibit P-5, Cost Analysis			Date: FEBRUARY 2005									
Appropriation Code/Budget Activity/Serial Number: Procurement of Ammunition, Navy and Marine Corps/2/Ammunition	ID Code: A	P-1 Line Item Nomenclature: (147100) ROCKETS, ALL TYPES										
	FY04			FY05			FY06			FY07		
WBS COST ELEMENTS	Total Cost	Qty	Unit Cost	Total Cost	Qty	Unit Cost	Total Cost	Qty	Unit Cost	Total Cost	Qty	Unit Cost
<b>CARTRIDGE AND LAUNCHER,</b>												
<b>84MM M136 AT-4 (DODIC C995)</b>												
COMPLETE ROUND	6.157	4,104	1500.24	5.123	3,412	1501.47						
<b>ROCKET, 83MM DUAL MODE (DODIC HX05)</b>												
COMPLETE ROUND	13.227	7,359	1797.17	13.594	7,507	1810.75						
<b>ROCKET, 83MM HEAA (DODIC HX06)</b>												
COMPLETE ROUND										6.091	4,000	1662.25
<b>RCKT, 66MM HE M72A7 LAW (DODIC HA29)</b>												
COMPLETE ROUND				2.550	1,136	2244.72						
<b>PRODUCT</b>												0.155
ACCEPTANCE TESTING												0.259
PRODUCTION ENGINEERING												0.148
QUALITY ASSURANCE												
<b>TOTAL</b>	19.384			21.267						6.653		



Exhibit P-5a, Procurement History and Planning	Weapon System	Date: FEBRUARY 2005
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Appropriation Code/Budget Activity/Serial Number: Procurement of Ammunition, Navy and Marine Corps/2/Ammunition	P-1 Line Item Nomenclature: (147100) ROCKETS, ALL TYPES
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WBS COST ELEMENTS	Qty	Unit Cost	Location of PCO	Contract Method and Type	Contractor and Location	RFP Issue Date	Award Date	Date of First Delivery	Tech Data Available Now?	Date Revisions Available
<b>CARTRIDGE AND LAUNCHER,</b>										
<b>84MM M136 AT-4 (DODIC C995)</b>										
<b>FY 2004</b>										
LAP, COMPLETE ROUND C995	4,104	1500.24	MARCORSYSCOM	C/FFP	SAAB, SWEDEN	MAY 02	NOV 02	MAR 04	YES	
<b>FY 2005</b>										
LAP, COMPLETE ROUND M739	3,412	1501.47	MARCORSYSCOM	C/FFP	SAAB, SWEDEN	MAY 02	NOV 04	MAR 05	YES	
<b>ROCKET, 83MM DUAL MODE (DODIC HX05)</b>										
<b>FY 2004</b>										
LAP, COMPLETE ROUND HX05	7,359	1797.17	NSWC DALHGREN	C/FFP	TALLEY DEFENSE PHOENIX, AZ	OCT 99	OCT 03	MAR 04	YES	
<b>FY 2005</b>										
LAP, COMPLETE ROUND HX05	7,507	1810.75	NSWC DALHGREN	C/FFP	TALLEY DEFENSE PHOENIX, AZ	JUL 04	OCT 04	MAR 05	YES	
<b>ROCKET, 83MM HEAA (DODIC HX06)</b>										
<b>FY 2007</b>										
LAP, COMPLETE ROUND HX06	4,000	1662.25	MARCORSYSCOM	C/FFP	UNKNOWN	NOV 07	NOV 07	OCT 08	NO	

Exhibit P-21, Production Schedule											Date: FEBRUARY 2005																														
Appropriation Code/Budget Activity/Serial Number: Procurement of Ammunition, Navy and Marine Corps/2/Ammunition											Weapon System			P-1 Line Item DODIC and Nomenclature: (147100) DODIC: HX06, ROCKET, 83MM HEAA																											
											PRODUCTION RATE			PROCUREMENT LEADTIMES																											
Item											Manufacturer's Name and Location			MSR	ECON	MAX	ALT Prior to Oct 1	ALT After to Oct 1	Intitial Mfg PLT	Reorder Mfg PLT	Total	Unit of Measure																			
HX06											UNKNOWN			1500	750	1800	12	1	11	6	24	E																			
											Fiscal Year 2004											Fiscal Year 2005																			
											Calendar Year 2004											Calendar Year 2005																			
Item											F	S	Q	D	B	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	B	
											Y	V	T	E	A	C	O	E	A	E	A	P	A	U	U	U	E	C	O	E	A	E	A	P	A	U	U	U	E	A	
HX06											04	MC	0.00	0.00	0.00																										0.00
											05	MC	0.00	0.00	0.00																										0.00
											06	MC	0.00	0.00	0.00																										0.00
											07	MC	4.00	0.00	4.00																										4.00
											Fiscal Year 2006											Fiscal Year 2007																			
											Calendar Year 2006											Calendar Year 2007																			
Item											F	S	Q	D	B	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	B	
											Y	V	T	E	A	C	O	E	A	E	A	P	A	U	U	U	E	C	O	E	A	E	A	P	A	U	U	U	E	A	
HX06											04	MC	0.00	0.00	0.00																										0.00
											05	MC	0.00	0.00	0.00																										0.00
											06	MC	0.00	0.00	0.00																										0.00
											07	MC	4.00	0.00	4.00																										4.00

Exhibit P-21, Production Schedule															Date: FEBRUARY 2005															
Appropriation Code/Budget Activity/Serial Number: Procurement of Ammunition, Navy and Marine Corps/2/Ammunition										Weapon System					P-1 Line Item DODIC and Nomenclature: (147100) DODIC: HX06, ROCKET, 83MM HEAA															
										PRODUCTION RATE					PROCUREMENT LEADTIMES															
Item		Manufacturer's Name and Location			MSR	ECON	MAX	ALT Prior to Oct 1	ALT After to Oct 1	Intitial Mfg PLT	Reorder Mfg PLT	Total	Unit of Measure																	
HX06		UNKNOWN			1500	750	1800	12	1	11	6	24	E																	
Fiscal Year 2008															Fiscal Year 2009															
Calendar Year 2008															Calendar Year 2009															
Item	F Y	S V	Q T	D E	B A	O C	N O	D E	J A	F E	M A	A P	M A	J U	J U	A U	S E	O C	N O	D E	J A	F E	M A	A P	M A	J U	J U	A U	S E	B A
HX06	04	MC	0.00	0.00	0.00																									0.00
	05	MC	0.00	0.00	0.00																									0.00
	06	MC	0.00	0.00	0.00																									0.00
	07	MC	4.00	0.00	4.00													0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.37	0.00
Fiscal Year 2010															Fiscal Year 2011															
Calendar Year 2010															Calendar Year 2011															
	F Y	S V	Q T	D E	B A	O C	N O	D E	J A	F E	M A	A P	M A	J U	J U	A U	S E	O C	N O	D E	J A	F E	M A	A P	M A	J U	J U	A U	S E	B A
HX06	04	MC	0.00	0.00	0.00																									0.00
	05	MC	0.00	0.00	0.00																									0.00
	06	MC	0.00	0.00	0.00																									0.00
	07	MC	4.00	4.00	0.00																									#####

Exhibit P-40, Budget Item Justification	Date: FEBRUARY 2005
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Appropriation Code/Budget Activity/Serial Number: Procurement of Ammunition, Navy and Marine Corps/2/Ammunition	P-1 Item Nomenclature: (147300) ARTILLERY, ALL TYPES
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Program Element for Code B Items:	Other Related Program Elements
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	ID Code	FY2004	FY2005	FY2006	FY2007	FY2008	FY2009	FY2010	FY2011	To Complete	Total Program
Proc Qty											
Gross Cost	A	52.018	55.384	31.810	42.398	48.169	45.020	80.065	61.205		416.069

Description: The Projectile, 155mm High Explosive (HE) M795 (DODIC D529) is used in the 155mm M198 Howitzer and is compatible with the M777 Light Weight 155 Howitzer. This projectile is used to provide conventional support fires and provides an increase in range, lethality, and accuracy over the older M107 series 155mm projectile.

The Projectile, 155mm High Explosive (HE) M107 (DODIC D544) is used in the 155mm M198 Howitzer and is compatible with the M777 Light Weight 155 Howitzer. This projectile is used to provide conventional support fires.

The Projectile, 155mm Smoke White Phosphorus (WP) M110A2 (DODIC D550) is used in the 155mm M198 Howitzer and is compatible with the M777 Light Weight 155 Howitzer. This projectile is used to provide smoke for marking purposes and can be used to provide screening of mechanized or infantry maneuver.

The M231 is a Low-Zone Modular Artillery Charge System (MACS) (DODIC DA12) used as a propelling charge for the 155mm family of artillery projectiles. MACS M231 will offer improvements in logistics, range, and simplicity when compared to existing bag propellants (M3 series and M4 series).

The M232 is a Top-Zone Modular Artillery Charge System (MACS) (DODIC DA13) used as a propelling charge for the 155mm family of artillery projectiles. MACS M232 will offer improvements in logistics, range, and simplicity when compared to existing bag propellants (M203 series, M119 series and M4 series).

Exhibit P-5, Cost Analysis								Date: FEBRUARY 2005					
Appropriation Code/Budget Activity/Serial Number: Procurement of Ammunition, Navy and Marine Corps/2/Ammunition		ID Code: A	P-1 Line Item Nomenclature: (147300) ARTILLERY, ALL TYPES										
		FY04			FY05			FY06			FY07		
WBS COST ELEMENTS		Total Cost	Qty	Unit Cost	Total Cost	Qty	Unit Cost	Total Cost	Qty	Unit Cost	Total Cost	Qty	Unit Cost
<b>PROJ, 155MM HE EX RANGE M795 (DODIC D529)</b>													
LAP, PROJ 155MM M795	5.882	49,472	118.25	4.396	37,731	116.51	1.375	13,840	99.35	2.180	20,786	104.88	
LIFTING PLUGS	0.356	51,248	6.95	0.266	38,873	6.84	0.083	14,259	5.82	0.132	21,415	6.16	
PROJ M795 MPTS	10.585	51,248	206.54	7.911	38,873	203.51	2.474	14,259	173.50	3.923	21,415	183.19	
SUPPLEMENTAL CHARGES	0.253	51,248	4.94	0.189	38,873	4.86	0.059	14,259	4.14	0.094	21,415	4.39	
TNT TYPE I GRADE A(LB)	3.693	1,240,535	2.98	2.760	940,988	2.93	0.863	345,161	2.50	1.369	518,390	2.64	
WOODEN PALLETS	0.29	6,030	48.09	0.217	4,574	47.44	0.068	1,678	40.52	0.108	2,520	42.86	
<b>PROJ, 155MM HE M107 (DODIC D544)</b>													
LAP, PROJ 155MM M107	8.541	59,670	82.96	3.232	45,317	71.32	4.208	37,203	113.11	4.884	31,553	154.79	
*COMP B TYPE 1 GRADE A(LB)	5.203	1,013,962	2.97	1.969	770,064	2.56	2.564	632,184	4.06	2.975	536,175	5.55	
*PLUG, SHOCK ATTENUATING	0.230	60,483	2.20	0.087	45,934	1.89	0.113	37,710	3.00	0.131	31,983	4.10	
*SUPPLEMENTAL CHARGES	0.476	60,483	4.56	0.180	45,934	3.92	0.234	37,710	6.21	0.272	31,983	8.50	
GROMMET (EA)	0.164	61,076	1.56	0.062	46,385	1.34	0.081	38,080	2.13	0.094	32,297	2.91	
PROJ M107 MPTS	13.831	60,483	132.55	5.234	45,934	113.95	6.815	37,710	180.72	7.909	31,983	247.29	
RECLAIM OP F/SUPL CHARGE	0.645	60,483	6.18	0.244	45,934	5.31	0.318	37,710	8.43	0.369	31,983	11.54	
<b>PRODUCT</b>													
ACCEPTANCE TESTING	0.444			0.291			0.133			0.187			
PRODUCTION ENGINEERING	1.012			0.657			0.306			0.429			
QUALITY ASSURANCE	0.263			0.127			0.110			0.135			
INTERIM TRANSPORTATION	0.024			0.009			0.012			0.014			
<b>Sub Total</b>	<b>51.892</b>			<b>27.831</b>			<b>19.816</b>			<b>25.205</b>			

Exhibit P-5, Cost Analysis								Date: FEBRUARY 2005				
Appropriation Code/Budget Activity/Serial Number: Procurement of Ammunition, Navy and Marine Corps/2/Ammunition		ID Code: A	P-1 Line Item Nomenclature: (147300) ARTILLERY, ALL TYPES									
WBS COST ELEMENTS	FY04			FY05			FY06			FY07		
	Total Cost	Qty	Unit Cost	Total Cost	Qty	Unit Cost	Total Cost	Qty	Unit Cost	Total Cost	Qty	Unit Cost
<b>HARDWARE:</b>												
<b>PROJ, 155MM WP M110A2 (DODIC D550)</b>												
LAP, PROJ 155MM M1110A2				0.964	3,516	274.28	1.575	5,530	284.81	1.934	6,730	287.37
*TNT TYPE I FLAKE (LB)				0.001	795	2.34	0.002	1,250	1.60	0.002	1,521	1.31
CASING BSTR (EA)				0.218	3,593	60.74	0.356	5,651	63.00	0.437	6,877	63.55
CHG BSTR M54A1 ASSY (EA)				0.328	3,632	90.44	0.536	5,712	93.84	0.658	6,951	94.66
CYCLOTOL 75/25 TYPE I				0.047	6,876	6.85	0.077	10,815	7.12	0.094	13,162	7.22
GROMMET (EA)				0.006	3,632	1.84	0.010	5,712	1.75	0.012	6,951	1.73
PLUG, SHOCK ATTENUATING				0.027	3,593	7.65	0.044	5,651	7.79	0.054	6,877	7.85
PROJ, 155MM WP M110A1 MPTS (EA)				1.021	3,593	284.35	1.668	5,651	295.17	2.048	6,877	297.80
<b>155MM MOD ARTY CHG SYS M231 (DODIC DA12)</b>												
LAP, COMPLETE ROUND M231	5.513	73,089	75.43	14.446	187,003	77.25	4.576	57,510	79.57	5.992	73,129	81.94
<b>155MM MOD ARTY CHG SYS M232 (DODIC DA13)</b>												
LAP, COMPLETE ROUND M232				10.043	98,187	102.29	4.565	43,331	105.35	7.303	67,311	108.50
<b>PRODUCT</b>												
ACCEPTANCE TESTING	0.185			0.917			0.451			0.624		
INTERIM TRANSPORTATION												
PRODUCTION ENGINEERING	0.275			1.443			0.796			1.087		
QUALITY ASSURANCE	0.051			0.325			0.246			0.323		
<b>NONRECURRING</b>												
GOVERNMENT FURNISHED MATERIAL	-5.898			-2.233			-2.908			-3.375		
<b>Sub Total</b>												
	0.126			27.553			11.994			17.193		
<b>P-5 Total</b>	52.018			55.384			31.810			42.398		

Exhibit P-5a, Procurement History and Planning			Weapon System		Date: FEBRUARY 2005					
Appropriation Code/Budget Activity/Serial Number: Procurement of Ammunition, Navy and Marine Corps/2/Ammunition				P-1 Line Item Nomenclature: (147300) ARTILLERY, ALL TYPES						
WBS COST ELEMENTS	Qty	Unit Cost	Location of PCO	Contract Method and Type	Contractor and Location	RFP Issue Date	Award Date	Date of First Delivery	Tech Data Available Now?	Date Revisions Available
<b>PROJ, 155MM HE EX RANGE M795 (DODIC D529)</b>										
LAP, PROJ, 155MM M795										
<b>FY 2004</b>	49,742	118.25	ARDEC, PICATINNEY, NJ	C/FFP	AMERICAN ORDANCE, MIDDLETON, IA	OCT 03	DEC 03	MAR 05	YES	
<b>FY 2005</b>	37,731	116.51	ARDEC, PICATINNEY, NJ	C/FFP	Day & Zimmerman, Parsons, KS	OCT 04	DEC 04	MAR 06	YES	
<b>FY 2006</b>	13,840	99.35	ARDEC, PICATINNEY, NJ	C/FFP	Day & Zimmerman, Parsons, KS	UNKNOWN	DEC 05	MAR 07	YES	
<b>FY 2007</b>	20,786	104.88	ARDEC, PICATINNEY, NJ	C/FFP	Day & Zimmerman, Parsons, KS	UNKNOWN	DEC 06	MAR 08	YES	
LIFTING PLUGS										
<b>FY 2004</b>	51,248	6.95	ARDEC, PICATINNEY, NJ	C/FFP	MEDICO IND, WILKES-BARRE, PA	OCT 03	DEC 03	MAR 05	YES	
<b>FY 2005</b>	38,873	6.84	ARDEC, PICATINNEY, NJ	C/FFP	MEDICO IND, WILKES-BARRE, PA	OCT 04	DEC 04	MAR 06	YES	
<b>FY 2006</b>	14,259	5.82	ARDEC, PICATINNEY, NJ	C/FFP	MEDICO IND, WILKES-BARRE, PA	UNKNOWN	DEC 05	MAR 07	YES	
<b>FY 2007</b>	21,415	6.16	ARDEC, PICATINNEY, NJ	C/FFP	MEDICO IND, WILKES-BARRE, PA	UNKNOWN	DEC 06	MAR 08	YES	
PROJ M795 MPTS										
<b>FY 2004</b>	51,248	206.54	ARDEC, PICATINNEY, NJ	C/FFP	CHAMB MFG, SCRANTON, PA	OCT 03	DEC 03	MAR 05	YES	
<b>FY 2005</b>	38,873	203.51	ARDEC, PICATINNEY, NJ	C/FFP	CHAMB MFG, SCRANTON, PA	OCT 04	DEC 04	MAR 06	YES	
<b>FY 2006</b>	14,259	173.50	ARDEC, PICATINNEY, NJ	C/FFP	CHAMB MFG, SCRANTON, PA	UNKNOWN	DEC 05	MAR 07	YES	
<b>FY 2007</b>	21,415	183.19	ARDEC, PICATINNEY, NJ	C/FFP	CHAMB MFG, SCRANTON, PA	UNKNOWN	DEC 06	MAR 08	YES	
SUPPLEMENTAL CHARGES										
<b>FY 2004</b>	51,248	4.94	ARDEC, PICATINNEY, NJ	C/FFP	MCAL AAP, MCALESTER, OK	OCT 03	DEC 03	MAR 05	YES	
<b>FY 2005</b>	38,873	4.86	ARDEC, PICATINNEY, NJ	C/FFP	MCAL AAP, MCALESTER, OK	OCT 04	DEC 04	MAR 06	YES	
<b>FY 2006</b>	14,259	4.14	ARDEC, PICATINNEY, NJ	C/FFP	MCAL AAP, MCALESTER, OK	UNKNOWN	DEC 05	MAR 07	YES	
<b>FY 2007</b>	21,415	4.39	ARDEC, PICATINNEY, NJ	C/FFP	MCAL AAP, MCALESTER, OK	UNKNOWN	DEC 06	MAR 08	YES	
TNT TYPE I GRADE A(LB)										
<b>FY 2004</b>	1,240,535	2.98	ARDEC, PICATINNEY, NJ	C/FFP	MCAL AAP, MCALESTER, OK	OCT 03	DEC 03	MAR 05	YES	
<b>FY 2005</b>	940,988	2.93	ARDEC, PICATINNEY, NJ	C/FFP	MCAL AAP, MCALESTER, OK	OCT 04	DEC 04	MAR 06	YES	
<b>FY 2006</b>	345,161	2.50	ARDEC, PICATINNEY, NJ	C/FFP	MCAL AAP, MCALESTER, OK	UNKNOWN	DEC 05	MAR 07	YES	
<b>FY 2007</b>	518,390	2.64	ARDEC, PICATINNEY, NJ	C/FFP	MCAL AAP, MCALESTER, OK	UNKNOWN	DEC 06	MAR 08	YES	
WOODEN PALLETS										
<b>FY 2004</b>	6,030	48.09	ARDEC, PICATINNEY, NJ	C/FFP	KNOX CTY ASSOC. VINCENNES, IN	OCT 03	DEC 03	MAR 05	YES	
<b>FY 2005</b>	4,574	47.44	ARDEC, PICATINNEY, NJ	C/FFP	KNOX CTY ASSOC. VINCENNES, IN	OCT 04	DEC 04	MAR 06	YES	
<b>FY 2006</b>	1,678	40.52	ARDEC, PICATINNEY, NJ	C/FFP	KNOX CTY ASSOC. VINCENNES, IN	UNKNOWN	DEC 05	MAR 07	YES	
<b>FY 2007</b>	2,520	42.86	ARDEC, PICATINNEY, NJ	C/FFP	KNOX CTY ASSOC. VINCENNES, IN	UNKNOWN	DEC 06	MAR 08	YES	

Exhibit P-5a, Procurement History and Planning		Weapon System			Date: FEBRUARY 2005					
Appropriation Code/Budget Activity/Serial Number: Procurement of Ammunition, Navy and Marine Corps/2/Ammunition				P-1 Line Item Nomenclature: (147300) ARTILLERY, ALL TYPES						
WBS COST ELEMENTS	Qty	Unit Cost	Location of PCO	Contract Method and Type	Contractor and Location	RFP Issue Date	Award Date	Date of First Delivery	Tech Data Available Now?	Date Revisions Available
PROJ, 155MM HE M107 (DODIC D544)										
LAP, PROJ, 155MM M107										
FY 2004	59,670	82.96	JMC, ROCK ISLAND, IL	C/FFP	AMERICAN ORDNANCE, MIDDLETON, IA	OCT 03	MAR 04	MAR 05	YES	
FY 2005	45,317	71.32	JMC, ROCK ISLAND, IL	C/FFP	AMERICAN ORDNANCE, MIDDLETON, IA	OCT 04	MAR 05	MAR 06	YES	
FY 2006	37,203	113.11	JMC, ROCK ISLAND, IL	C/FFP	AMERICAN ORDNANCE, MIDDLETON, IA	UNKNOWN	MAR 06	MAR 07	YES	
FY 2007	31,553	154.79	JMC, ROCK ISLAND, IL	C/FFP	AMERICAN ORDNANCE, MIDDLETON, IA	UNKNOWN	MAR 07	MAR 08	YES	
*COMP B TYPE I GRADE A(LB)										
FY 2004	1,013,962	2.97	JMC, ROCK ISLAND, IL	C/FFP	GOVT FURNISHED MATERIAL	OCT 03	MAR 04	MAR 05	YES	
FY 2005	770,064	2.56	JMC, ROCK ISLAND, IL	C/FFP	GOVT FURNISHED MATERIAL	OCT 04	MAR 05	MAR 06	YES	
FY 2006	632,184	4.06	JMC, ROCK ISLAND, IL	C/FFP	GOVT FURNISHED MATERIAL	UNKNOWN	MAR 06	MAR 07	YES	
FY 2007	536,175	5.55	JMC, ROCK ISLAND, IL	C/FFP	GOVT FURNISHED MATERIAL	UNKNOWN	MAR 07	MAR 08	YES	
*PLUG SHOCK ATTENUATING										
FY 2004	60,483	2.20	JMC, ROCK ISLAND, IL	C/FFP	GOVT FURNISHED MATERIAL	OCT 03	MAR 04	MAR 05	YES	
FY 2005	45,934	1.89	JMC, ROCK ISLAND, IL	C/FFP	GOVT FURNISHED MATERIAL	OCT 04	MAR 05	MAR 06	YES	
FY 2006	37,710	3.00	JMC, ROCK ISLAND, IL	C/FFP	GOVT FURNISHED MATERIAL	UNKNOWN	MAR 06	MAR 07	YES	
FY 2007	31,983	4.10	JMC, ROCK ISLAND, IL	C/FFP	GOVT FURNISHED MATERIAL	UNKNOWN	MAR 07	MAR 08	YES	
*SUPPLEMENTAL CHARGE										
FY 2004	60,483	4.56	JMC, ROCK ISLAND, IL	C/FFP	GOVT FURNISHED MATERIAL	OCT 03	MAR 04	MAR 05	YES	
FY 2005	45,934	3.92	JMC, ROCK ISLAND, IL	C/FFP	GOVT FURNISHED MATERIAL	OCT 04	MAR 05	MAR 06	YES	
FY 2006	37,710	6.21	JMC, ROCK ISLAND, IL	C/FFP	GOVT FURNISHED MATERIAL	UNKNOWN	MAR 06	MAR 07	YES	
FY 2007	31,983	8.50	JMC, ROCK ISLAND, IL	C/FFP	GOVT FURNISHED MATERIAL	UNKNOWN	MAR 07	MAR 08	YES	
GROMMET (EA)										
FY 2004	61,076	1.56	JMC, ROCK ISLAND, IL	C/FFP	CHAMB MFG, SCRANTON, PA	OCT 03	MAR 04	MAR 05	YES	
FY 2005	46,385	1.34	JMC, ROCK ISLAND, IL	C/FFP	CHAMB MFG, SCRANTON, PA	OCT 04	MAR 05	MAR 06	YES	
FY 2006	38,080	2.13	JMC, ROCK ISLAND, IL	C/FFP	CHAMB MFG, SCRANTON, PA	UNKNOWN	MAR 06	MAR 07	YES	
FY 2007	32,297	2.91	JMC, ROCK ISLAND, IL	C/FFP	CHAMB MFG, SCRANTON, PA	UNKNOWN	MAR 07	MAR 08	YES	
PROJ M107 MPTS										
FY 2004	60,483	132.55	JMC, ROCK ISLAND, IL	C/FFP	CHAMB MFG, SCRANTON, PA	OCT 03	MAR 04	MAR 05	YES	
FY 2005	45,934	113.95	JMC, ROCK ISLAND, IL	C/FFP	CHAMB MFG, SCRANTON, PA	OCT 04	MAR 05	MAR 06	YES	
FY 2006	37,710	180.72	JMC, ROCK ISLAND, IL	C/FFP	CHAMB MFG, SCRANTON, PA	UNKNOWN	MAR 06	MAR 07	YES	
FY 2007	31,983	247.29	JMC, ROCK ISLAND, IL	C/FFP	CHAMB MFG, SCRANTON, PA	UNKNOWN	MAR 07	MAR 08	YES	
RECLAIM OP F/SUPL CHARGE										
FY 2004	60,483	6.18	JMC, ROCK ISLAND, IL	C/FFP	MCAL AAP, MCALESTER, OK	OCT 03	MAR 04	MAR 05	YES	
FY 2005	45,934	5.31	JMC, ROCK ISLAND, IL	C/FFP	MCAL AAP, MCALESTER, OK	OCT 04	MAR 05	MAR 06	YES	
FY 2006	37,710	8.43	JMC, ROCK ISLAND, IL	C/FFP	MCAL AAP, MCALESTER, OK	UNKNOWN	MAR 06	MAR 07	YES	
FY 2007	31,983	11.54	JMC, ROCK ISLAND, IL	C/FFP	MCAL AAP, MCALESTER, OK	UNKNOWN	MAR 07	MAR 08	YES	



Exhibit P-5a, Procurement History and Planning		Weapon System			Date: FEBRUARY 2005					
Appropriation Code/Budget Activity/Serial Number: Procurement of Ammunition, Navy and Marine Corps/2/Ammunition				P-1 Line (147300)	Item Nomenclature: ARTILLERY, ALL TYPES					
WBS COST ELEMENTS	Qty	Unit Cost	Location of PCO	Contract Method and Type	Contractor and Location	RFP Issue Date	Award Date	Date of First Delivery	Tech Data Available Now?	Date Revisions Available
<b>PROJ 155MM WP M110A2 (DODIC D550)</b>										
LAP, PROJ, 155MM M110A2										
FY 2005	3,516	274.28	JMC, ROCK ISLAND, IL	C/FFP	UNKNOWN	OCT 04	MAR 05	NOV 06	YES	
FY 2006	5,530	284.81	JMC, ROCK ISLAND, IL	C/FFP	UNKNOWN	UNKNOWN	MAR 06	NOV 07	YES	
FY 2007	6,730	287.37	JMC, ROCK ISLAND, IL	C/FFP	UNKNOWN	UNKNOWN	MAR 07	NOV 08	YES	
*TNT TYPE I FLAKE (LB)										
FY 2005	795	2.34	JMC, ROCK ISLAND, IL	C/FFP	GOVT FURNISHED MATERIAL	OCT 04	MAR 05	NOV 06	YES	
FY 2006	1,250	1.60	JMC, ROCK ISLAND, IL	C/FFP	GOVT FURNISHED MATERIAL	UNKNOWN	MAR 06	NOV 07	YES	
FY 2007	1,521	1.31	JMC, ROCK ISLAND, IL	C/FFP	GOVT FURNISHED MATERIAL	UNKNOWN	MAR 07	NOV 08	YES	
CASING BSTR (EA)										
FY 2005	3,593	60.74	JMC, ROCK ISLAND, IL	C/FFP	UNKNOWN	OCT 04	MAR 05	NOV 06	YES	
FY 2006	5,651	63.00	JMC, ROCK ISLAND, IL	C/FFP	UNKNOWN	UNKNOWN	MAR 06	NOV 07	YES	
FY 2007	6,877	63.55	JMC, ROCK ISLAND, IL	C/FFP	UNKNOWN	UNKNOWN	MAR 07	NOV 08	YES	
CHG BSTR M54A1 ASSY (EA)										
FY 2005	3,632	90.44	JMC, ROCK ISLAND, IL	C/FFP	UNKNOWN	OCT 04	MAR 05	NOV 06	YES	
FY 2006	5,712	93.84	JMC, ROCK ISLAND, IL	C/FFP	UNKNOWN	UNKNOWN	MAR 06	NOV 07	YES	
FY 2007	6,951	94.66	JMC, ROCK ISLAND, IL	C/FFP	UNKNOWN	UNKNOWN	MAR 07	NOV 08	YES	
CYCLOTOL 75/25 TYPE 1										
FY 2005	6,876	6.85	JMC, ROCK ISLAND, IL	C/FFP	UNKNOWN	OCT 04	MAR 05	NOV 06	YES	
FY 2006	10,815	7.12	JMC, ROCK ISLAND, IL	C/FFP	UNKNOWN	UNKNOWN	MAR 06	NOV 07	YES	
FY 2007	13,162	7.22	JMC, ROCK ISLAND, IL	C/FFP	UNKNOWN	UNKNOWN	MAR 07	NOV 08	YES	
GROMMET (EA)										
FY 2005	3,632	1.84	JMC, ROCK ISLAND, IL	C/FFP	UNKNOWN	OCT 04	MAR 05	NOV 06	YES	
FY 2006	5,712	1.75	JMC, ROCK ISLAND, IL	C/FFP	UNKNOWN	UNKNOWN	MAR 06	NOV 07	YES	
FY 2007	6,951	1.73	JMC, ROCK ISLAND, IL	C/FFP	UNKNOWN	UNKNOWN	MAR 07	NOV 08	YES	
PLUG SHOCK ATTENUATING										
FY 2005	3,593	7.65	JMC, ROCK ISLAND, IL	C/FFP	UNKNOWN	OCT 04	MAR 05	NOV 06	YES	
FY 2006	5,651	7.79	JMC, ROCK ISLAND, IL	C/FFP	UNKNOWN	UNKNOWN	MAR 06	NOV 07	YES	
FY 2007	6,877	7.85	JMC, ROCK ISLAND, IL	C/FFP	UNKNOWN	UNKNOWN	MAR 07	NOV 08	YES	
PROJ, 155MM WP M110A2 MPTS (EA)										
FY 2005	3,593	284.35	JMC, ROCK ISLAND, IL	C/FFP	UNKNOWN	OCT 04	MAR 05	NOV 06	YES	
FY 2006	5,651	295.17	JMC, ROCK ISLAND, IL	C/FFP	UNKNOWN	UNKNOWN	MAR 06	NOV 07	YES	
FY 2007	3,877	297.80	JMC, ROCK ISLAND, IL	C/FFP	UNKNOWN	UNKNOWN	MAR 07	NOV 08	YES	

Exhibit P-5a, Procurement History and Planning			Weapon System			Date: FEBRUARY 2005				
Appropriation Code/Budget Activity/Serial Number: Procurement of Ammunition, Navy and Marine Corps/2/Ammunition					P-1 Line Item Nomenclature: (147300) ARTILLERY, ALL TYPES					
WBS COST ELEMENTS	Qty	Unit Cost	Location of PCO	Contract Method and Type	Contractor and Location	RFP Issue Date	Award Date	Date of First Delivery	Tech Data Available Now?	Date Revisions Available
<b>155MM CHG SYS M231 (DODIC DA12)</b>										
LAP, M231										
FY 2004	73,089	75.43	ARDEC, PICATINNY, NJ	C/FFP	AMERICAN ORDNANCE, MIDDLETON, IA	OCT 03	JUL 04	MAR 06	YES	
FY 2005	187,003	77.25	ARDEC, PICATINNY, NJ	C/FFP	AMERICAN ORDNANCE, MIDDLETON, IA	OCT 04	JUL 05	MAR 07	YES	
FY2006	57,510	79.57	ARDEC, PICATINNY, NJ	C/FFP	AMERICAN ORDNANCE, MIDDLETON, IA	UNKNOWN	JUL 06	MAR 08	YES	
FY 2007	73,129	81.94	ARDEC, PICATINNY, NJ	C/FFP	AMERICAN ORDNANCE, MIDDLETON, IA	UNKNOWN	JUL 07	MAR 09	YES	
<b>155MM CHG SYS M232 (DODIC DA13)</b>										
LAP, M232										
FY 2005	98,187	102.29	ARDEC, PICATINNY, NJ	C/FFP	AMERICAN ORDNANCE, CAMDEN, AR	OCT 04	MAR 05	SEP 06	YES	
FY 2006	43,331	105.35	ARDEC, PICATINNY, NJ	C/FFP	AMERICAN ORDNANCE, CAMDEN, AR	UNKNOWN	MAR 06	SEP 07	YES	
FY 2007	67,311	108.50	ARDEC, PICATINNY, NJ	C/FFP	AMERICAN ORDNANCE, CAMDEN, AR	UNKNOWN	MAR 07	SEP 08	YES	

Exhibit P-21, Production Schedule															Date: FEBRUARY 2005															
Appropriation Code/Budget Activity/Serial Number: Procurement of Ammunition, Navy and Marine Corps/2/Ammunition										Weapon System					P-1 Line Item DODIC and Nomenclature: (147300) DODIC: D529, PROJ 155MM HE EX RANGE M795															
										PRODUCTION RATE					PROCUREMENT LEADTIMES															
Item		Manufacturer's Name and Location					MSR	ECON	MAX	ALT Prior to Oct 1	ALT After to Oct 1	Intitial Mfg PLT	Reorder Mfg PLT	Total	Unit of Measure															
D529		American Ordnance, Middleton, IA					0.7	8	28	3	3	15	15	18	K															
Fiscal Year 2004															Fiscal Year 2005															
Calendar Year 2004															Calendar Year 2005															
Item	F Y	S V C	Q T Y	D E L	B A L	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	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 A L
D529	04	MC	49.7	0.0	49.7			A															4.1	4.1	4.1	4.1	4.1	4.1	4.1	21.0
	05	MC	37.7	0.0	37.7															A										37.7
	06	MC	13.8	0.0	13.8																									13.8
	07	MC	20.8	0.0	20.8																									20.8
Fiscal Year 2006															Fiscal Year 2007															
Calendar Year 2006															Calendar Year 2007															
Item	F Y	S V C	Q T Y	D E L	B A L	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	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 A L
D529	04	MC	49.7	28.7	21.0	4.1	4.1	4.1	4.1	4.6																				0.0
	05	MC	37.7	0.0	37.7						3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.6							0.0
	06	MC	13.8	0.0	13.8			A															1.2	1.2	1.2	1.2	1.2	1.2	1.2	5.4
	07	MC	20.8	0.0	20.8															A										20.8

Exhibit P-21, Production Schedule															Date: FEBRUARY 2005																														
Appropriation Code/Budget Activity/Serial Number: Procurement of Ammunition, Navy and Marine Corps/2/Ammunition															Weapon System					P-1 Line Item DODIC and Nomenclature: (147300) DODIC: D529, PROJ 155MM HE EX RANGE M795																									
															PRODUCTION RATE					PROCUREMENT LEADTIMES																									
Item															Manufacturer's Name and Location					MSR			ECON		MAX		ALT Prior to Oct 1			ALT After to Oct 1			Intitial Mfg PLT			Reorder Mfg PLT			Total		Unit of Measure				
D529															American Ordnance, Middleton, IA					0.7			8		28		3			3			15			15			18		K				
															Fiscal Year 2008															Fiscal Year 2009															
															Calendar Year 2008															Calendar Year 2009															
Item															F	S	Q	D	B	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	B	
															Y	V	T	E	A	C	O	E	A	E	A	P	A	U	U	U	E	C	O	E	A	E	A	P	A	U	U	U	E	A	
D529															04	MC	49.7	49.7	0.0																										0.0
															05	MC	37.7	51.2	0.0																										0.0
															06	MC	13.8	8.4	5.4	1.2	1.2	1.2	1.2	0.6																					0.0
															07	MC	20.8	0.0	20.8						1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	2.1							0.0	
															Fiscal Year 2010															Fiscal Year 2011															
															Calendar Year 2010															Calendar Year 2011															
Item															F	S	Q	D	B	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	B	
															Y	V	T	E	A	C	O	E	A	E	A	P	A	U	U	U	E	C	O	E	A	E	A	P	A	U	U	U	E	A	
D529															04	MC	49.7	49.7	0.0																										0.0
															05	MC	37.7	37.7	0.0																										0.0
															06	MC	13.8	13.8	0.0																										0.0
															07	MC	20.8	20.8	0.0																										0.0

Exhibit P-21, Production Schedule														Date: FEBRUARY 2005																	
Appropriation Code/Budget Activity/Serial Number: Procurement of Ammunition, Navy and Marine Corps/2/Ammunition														Weapon System				P-1 Line Item DODIC and Nomenclature: (147300) DODIC: D544 PROJ, 155MM HE M107													
														PRODUCTION RATE				PROCUREMENT LEADTIMES													
Item		Manufacturer's Name and Location												MSR	ECON	MAX	ALT Prior to Oct 1	ALT After to Oct 1	Intitial Mfg PLT	Reorder Mfg PLT	Total	Unit of Measure									
D544		American Ordnance, Middleton, IA												8.6	25	42.3	6	6	12	12	18	K									
Fiscal Year 2004														Fiscal Year 2005																	
Calendar Year 2004														Calendar Year 2005																	
Item	F Y	S V C	Q T Y	D E L	B A L	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	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 A L	
D544	04	MC	59.7	0.0	59.7						A												5.0	5.0	5.0	5.0	5.0	5.0	5.0	24.7	
	05	MC	45.3	0.0	45.3																		A							45.3	
	06	MC	37.2	0.0	37.2																									37.2	
	07	MC	31.6	0.0	31.6																									31.6	
Fiscal Year 2006														Fiscal Year 2007																	
Calendar Year 2006														Calendar Year 2007																	
Item	F Y	S V C	Q T Y	D E L	B A L	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	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 A L	
D544	04	MC	59.7	35.0	24.7	5.0	5.0	5.0	5.0	4.7																				0.0	
	05	MC	45.3	0.0	45.3						3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.5								0.0	
	06	MC	37.2	0.0	37.2						A												3.1	3.1	3.1	3.1	3.1	3.1	3.1	15.5	
	07	MC	31.6	0.0	31.6																		A							31.6	

Exhibit P-21, Production Schedule														Date: FEBRUARY 2005																	
Appropriation Code/Budget Activity/Serial Number: Procurement of Ammunition, Navy and Marine Corps/2/Ammunition														Weapon System			P-1 Line Item DODIC and Nomenclature: (147300) DODIC: D544 PROJ, 155MM HE M107														
														PRODUCTION RATE			PROCUREMENT LEADTIMES														
Item		Manufacturer's Name and Location				MSR	ECON	MAX	ALT Prior to Oct 1	ALT After to Oct 1	Intitial Mfg PLT	Reorder Mfg PLT	Total	Unit of Measure																	
D544		American Ordnance, Middleton, IA				8.6	25	42.3	6	6	12	12	18	K																	
Fiscal Year 2008														Fiscal Year 2009																	
Calendar Year 2008														Calendar Year 2009																	
Item	F Y	S V	Q T	D E	B A	O C	N O	D E	J A	F E	M A	A P	M A	J U	J U	A U	S E	O C	N O	D E	J A	F E	M A	A P	M A	J U	J U	A U	S E	B A	
D544	04	MC	59.7	24.7	0.0																										0.0
	05	MC	45.3	45.3	0.0																										0.0
	06	MC	37.2	21.7	15.5	3.1	3.1	3.1	3.1	3.1																					0.0
	07	MC	31.6	0.0	31.6						2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	3.0								0.0
Fiscal Year 2010														Fiscal Year 2011																	
Calendar Year 2010														Calendar Year 2011																	
Item	F Y	S V	Q T	D E	B A	O C	N O	D E	J A	F E	M A	A P	M A	J U	J U	A U	S E	O C	N O	D E	J A	F E	M A	A P	M A	J U	J U	A U	S E	B A	
D544	04	MC	59.7	24.7	0.0																										0.0
	05	MC	45.3	45.3	0.0																										0.0
	06	MC	37.2	37.2	0.0																										0.0
	07	MC	31.6	31.6	0.0																										0.0

Exhibit P-21, Production Schedule														Date: FEBRUARY 2005																	
Appropriation Code/Budget Activity/Serial Number: Procurement of Ammunition, Navy and Marine Corps/2/Ammunition														Weapon System				P-1 Line Item DODIC and Nomenclature: (147300) DODIC: D550 PROJ, 155MM WP M110A2													
														PRODUCTION RATE				PROCUREMENT LEADTIMES													
Item		Manufacturer's Name and Location						MSR	ECON	MAX	ALT Prior to Oct 1				ALT After to Oct 1				Intitial Mfg PLT		Reorder Mfg PLT		Total		Unit of Measure						
D550		UNKNOWN						8	13	30	6				6				20		20		26		K						
Fiscal Year 2004														Fiscal Year 2005																	
Calendar Year 2004														Calendar Year 2005																	
Item	F Y	S V C	Q T Y	D E L	B A L	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	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 A L	
D550	04	MC	0.00	0.00	0.00																									0.00	
	05	MC	3.52	0.00	3.52																			A						3.52	
	06	MC	5.53	0.00	5.53																									5.53	
	07	MC	6.73	0.00	6.73																									6.73	
Fiscal Year 2006														Fiscal Year 2007																	
Calendar Year 2006														Calendar Year 2007																	
Item	F Y	S V C	Q T Y	D E L	B A L	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	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 A L	
D550	04	MC	0.00	0.00	0.00																									0.00	
	05	MC	3.52	0.00	3.52														0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.33	
	06	MC	5.53	0.00	5.53						A																			5.53	
	07	MC	6.73	0.00	6.73																		A							6.73	

Exhibit P-21, Production Schedule														Date: FEBRUARY 2005																	
Appropriation Code/Budget Activity/Serial Number: Procurement of Ammunition, Navy and Marine Corps/2/Ammunition														Weapon System				P-1 Line Item DODIC and Nomenclature: (147300) DODIC: D550 PROJ, 155MM WP M110A2													
														PRODUCTION RATE				PROCUREMENT LEADTIMES													
Item		Manufacturer's Name and Location												MSR	ECON	MAX	ALT Prior to Oct 1	ALT After to Oct 1	Intitial Mfg PLT	Reorder Mfg PLT	Total	Unit of Measure									
D550		Pine Bluff, Arsenal, AR												8	13	30	6	6	20	20	26	K									
Fiscal Year 2008														Fiscal Year 2009																	
Calendar Year 2008														Calendar Year 2009																	
Item	F Y	S V C	Q T Y	D E L	B A L	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	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 A L	
D550	04	MC	0.00	0.00	0.00																									0.00	
	05	MC	3.52	3.19	0.33	0.33																								0.00	
	06	MC	5.53	0.00	5.53		0.46	0.46	0.46	0.46	0.46	0.46	0.46	0.46	0.46	0.46	0.46	0.47												0.00	
	07	MC	6.73	0.00	6.73														0.56	0.56	0.56	0.56	0.56	0.56	0.56	0.56	0.56	0.56	0.56	0.57	
Fiscal Year 2010														Fiscal Year 2011																	
Calendar Year 2010														Calendar Year 2011																	
Item	F Y	S V C	Q T Y	D E L	B A L	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	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 A L	
D550	04	MC	0.00	0.00	0.00																									0.00	
	05	MC	3.52	3.52	0.00																									0.00	
	06	MC	5.53	5.53	0.00																									0.00	
	07	MC	6.73	6.16	0.57	0.57																								0.00	



Exhibit P-21, Production Schedule																		Date: FEBRUARY 2005																							
Appropriation Code/Budget Activity/Serial Number: Procurement of Ammunition, Navy and Marine Corps/2/Ammunition																		Weapon System						P-1 Line Item DODIC and Nomenclature: (147300) DODIC: DA12, 155MM MOD ARTY CHG SYS M231																	
																		PRODUCTION RATE						PROCUREMENT LEADTIMES																	
Item			Manufacturer's Name and Location						MSR		ECON		MAX		ALT Prior to Oct 1		ALT After to Oct 1		Intitial Mfg PLT		Reorder Mfg PLT		Total		Unit of Measure																
DA12			AMERICAN ORDNANCE, MIDDLETON, IA						1		12		50		10		10		20		20		30		K																
																		Fiscal Year 2004												Fiscal Year 2005											
																		Calendar Year 2004												Calendar Year 2005											
Item			F Y	S V C	Q Y	D L	B L	O T	N V	D C	J N	F B	M R	A R	M Y	J N	J L	A G	S P	O T	N V	D C	J N	F B	M R	A R	M Y	J N	J L	A G	S P	B L									
DA12			04	MC	73.1	0.0	73.1																										73.1								
			05	MC	187	0	187																										187								
			06	MC	57.5	0.0	57.5																										57.5								
			07	MC	73.1	0.0	73.1																										73.1								
																		Fiscal Year 2006												Fiscal Year 2007											
																		Calendar Year 2006												Calendar Year 2007											
Item			F Y	S V C	Q Y	D L	B L	O T	N V	D C	J N	F B	M R	A R	M Y	J N	J L	A G	S P	O T	N V	D C	J N	F B	M R	A R	M Y	J N	J L	A G	S P	B L									
DA12			04	MC	73.1	0.0	73.1							6.1	6.1	6.1	6.1	6.1	6.1	6.1	6.1	6.1	6.1	6.1	6.0								0.0								
			05	MC	187	0	187																		16	16	16	16	16	16	16	16	16	75.0							
			06	MC	57.5	0.0	57.5																										57.5								
			07	MC	73.1	0.0	73.1																										73.1								

Exhibit P-21, Production Schedule															Date: FEBRUARY 2005																													
Appropriation Code/Budget Activity/Serial Number: Procurement of Ammunition, Navy and Marine Corps/2/Ammunition															Weapon System P-1 Line Item DODIC and Nomenclature: (147300) DODIC: DA12, 155MM MOD ARTY CHG SYS M231																													
															PRODUCTION RATE					PROCUREMENT LEADTIMES																								
Item			Manufacturer's Name and Location			MSR	ECON	MAX	ALT Prior to Oct 1	ALT After to Oct 1	Intitial Mfg PLT	Reorder Mfg PLT	Total	Unit of Measure																														
DA12			AMERICAN ORDNANCE, MIDDLETON, IA			1	12	50	10	10	20	20	30	K																														
															Fiscal Year 2008										Fiscal Year 2009																			
															Calendar Year 2008															Calendar Year 2009														
Item	F Y	S V C	Q T Y	D E L	B A L	O A T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	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 A L														
DA12	04	MC	73.1	73.1	0.0																										0.0													
	05	MC	187	133	54	16	16	11																							0.0													
	06	MC	57.5	0.0	57.5						4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.7									0													
	07	MC	73.1	0.0	73.1																	6.1	6.1	6.1	6.1	6.1	6.1	6.1	6.1	30.4														
															Fiscal Year 2010										Fiscal Year 2011																			
															Calendar Year 2010															Calendar Year 2011														
Item	F Y	S V C	Q T Y	D E L	B A L	O A T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	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 A L														
DA12	04	MC	73.1	73.1	0.0																										0.0													
	05	MC	187	187	0																										0													
	06	MC	57.5	57.5	0.0																										0.0													
	07	MC	73.1	42.7	30.4	6.1	6.1	6.1	6.1	6.0																					0.0													

Exhibit P-21, Production Schedule													Date: FEBRUARY 2005																		
Appropriation Code/Budget Activity/Serial Number: Procurement of Ammunition, Navy and Marine Corps/2/Ammunition											Weapon System		P-1 Line Item DODIC and Nomenclature: (147300) DODIC: DA13, 155MM MOD ARTY CHG SYS M232																		
											PRODUCTION RATE			PROCUREMENT LEADTIMES																	
Manufacturer's Name and Location											MSR	ECON	MAX	ALT Prior to Oct 1	ALT After to Oct 1	Intitial Mfg PLT	Reorder Mfg PLT	Total	Unit of Measure												
AMERICAN ORDNANCE, CAMDEN, AR											1	12	50	6	6	18	18	24	K												
Fiscal Year 2004											Fiscal Year 2005																				
Calendar Year 2004											Calendar Year 2005																				
Item	F Y	S V C	Q T Y	D E L	B A L	O C T	N V	D C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	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 O C T	
DA13	04	MC	0.0	0.0	0.0																										0.0
	05	MC	98.2	0.0	98.2																		A								98.2
	06	MC	43.3	0.0	43.3																										43.3
	07	MC	67.3	0.0	67.3																										67.3
Fiscal Year 2006											Fiscal Year 2007																				
Calendar Year 2006											Calendar Year 2007																				
Item	F Y	S V C	Q T Y	D E L	B A L	O C T	N V	D C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	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 O C T	
DA13	04	MC	0.0	0.0	0.0																										0.0
	05	MC	98.2	0.0	98.2													8.2	8.2	8.2	8.2	8.2	8.2	8.2	8.2	8.2	8.2	8.2	8.0		0.0
	06	MC	43.3	0.0	43.3						A																			3.6	39.7
	07	MC	67.3	0.0	67.3																	A									67.3

Exhibit P-21, Production Schedule													Date: FEBRUARY 2005																		
Appropriation Code/Budget Activity/Serial Number: Procurement of Ammunition, Navy and Marine Corps/2/Ammunition													Weapon System			P-1 Line Item DODIC and Nomenclature: (147300) DODIC: DA13, 155MM MOD ARTY CHG SYS M232															
													PRODUCTION RATE			PROCUREMENT LEADTIMES															
Item			Manufacturer's Name and Location						MSR	ECON		MAX		ALT Prior to Oct 1		ALT After to Oct 1		Intitial Mfg PLT		Reorder Mfg PLT		Total		Unit of Measure							
DA13			AMERICAN ORDNANCE, CAMDEN, AR						1	12		50		6		6		18		18		24		K							
													Fiscal Year 2008						Fiscal Year 2009												
													Calendar Year 2008						Calendar Year 2009												
Item	F	S	Q	D	B	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	B	
	Y	V	T	E	A	C	O	E	A	E	A	P	A	U	U	U	E	C	O	E	A	E	A	P	A	U	U	U	E	A	
DA13	04	MC	0.0	0.0	0.0																										0.0
	05	MC	98.2	98.2	0.0																										0.0
	06	MC	43.3	3.6	39.7	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.7															0.0
	07	MC	67.3	0.0	67.3												5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.7	0.0
													Fiscal Year 2010						Fiscal Year 2011												
													Calendar Year 2010						Calendar Year 2011												
Item	F	S	Q	D	B	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	B	
	Y	V	T	E	A	C	O	E	A	E	A	P	A	U	U	U	E	C	O	E	A	E	A	P	A	U	U	U	E	A	
DA13	04	MC	0.0	0.0	0.0																										0.0
	05	MC	98.2	98.2	0.0																										0.0
	06	MC	43.3	43.3	0.0																										0.0
	07	MC	67.3	67.3	0.0																										0.0

Exhibit P-40, Budget Item Justification								Date: FEBRUARY 2005			
Appropriation Code/Budget Activity/Serial Number: Procurement of Ammunition, Navy and Marine Corps/2/Ammunition						P-1 Item Nomenclature: (147500) EXPEDITIONARY FIGHTING VEHICLE					
Program Element for Code B Items:				Other Related Program Elements							
	ID Code	FY2004	FY2005	FY2006	FY2007	FY2008	FY2009	FY2010	FY2011	To Complete	Total Program
Proc Qty											
Gross Cost	A	0.000	2.464	5.738	9.504	28.730	14.875	15.631	16.030		92.972
<p>Description: Target Practice - Tracer (TP-T) (DODIC AA65) provides a low cost round to train and sustain EFV crews in perishable gunnery skills. The TP-T round has an inert full-bore projectile which allows it to be fired at ranges and facilities without the concerns of unexploded ordnance associated with High Explosive ammunition, nor the distance of flight issues with the Armor Piercing Fin Stabilized Discarding Sabot-Tracer round.</p> <p>The High Explosive - Tracer (HE-T) (DODIC B002) is the EFV's main round. The HE is a full-bore hardened nose steel projectile filled with an explosive main charge with a mechanical base fuze. This round combines the strengths of a standard High Explosive round against the EFV's prime target (infantry) with the ability to penetrate soft to medium armor targets like light armored vehicles and fortified emplacements which are too "soft" for the APFSDS-T round or where an explosive effect is required. When fired against soft targets, the HE produces many, relatively small fragments producing lethality levels equal to a standard 30mm HE round. The combination of the hardened nose and a base fuse functioning with a slight delay, allow the HE to penetrate and detonate inside hardened targets.</p> <p>The kinetic energy Armor Piercing Fin Stabilized Discarding Sabot - Tracer (APFSDS-T) (DODIC B003) round will be utilized by the EFV to defeat extremely "hard" targets such as infantry fighting vehicles. The APFSDS rounds utilize a long rod type of penetrator, which provides a highly efficient means of deep penetration into materials such as metals (steel, RHA, etc.), concrete, ceramics, and other highly resistant target materials. Unlike most APFSDS rods which are made of Depleted Uranium (DU), these rods are fabricated from a hardened tungsten alloy, a high density "heavy metal" which produces significant penetration capabilities without the associated concerns of DU.</p>											

Exhibit P-40a, Budget Item Justification for Aggregated Items								Date: FEBRUARY 2005		
Appropriation Code/Budget Activity/Serial Number: Procurement of Ammunition, Navy and Marine Corps/2/Ammunition					P-1 Item Nomenclature: (147500) EXPEDITIONARY FIGHTING VEHICLE					
	ID Code	FY2004	FY2005	FY2006	FY2007				To Complete	Total
CTG, 30MM TP-T (DODIC AA65)	A	0.000	2.080	5.399	3.657					
QTY		0	69,746	178,140	118,401					
CTG, 30MM HE-T (DODIC B002)	A	0.000	0.115	0.102	3.489					
QTY		0	1,291	1,116	37,644					
CTG, 30MM APFSDS-T (DODIC B003)	A	0.000	0.269	0.237	2.358					
QTY		0	1,291	1,116	10,903					
P-40a Total		0.000	2.464	5.738	9.504					

Exhibit P-40, Budget Item Justification							Date: FEBRUARY 2005				
Appropriation Code/Budget Activity/Serial Number: Procurement of Ammunition, Navy and Marine Corps/2/Ammunition				P-1 Item Nomenclature: (150000) DEMOLITION MUNITIONS, ALL TYPES							
Program Element for Code B Items:				Other Related Program Elements							
	ID Code	FY2004	FY2005	FY2006	FY2007	FY2008	FY2009	FY2010	FY2011	To Complete	Total Program
Proc Qty											
Gross Cost	A	5.784	3.257	2.353	0.128	0.766	2.404	28.271	0.000		42.963
<p>Description: This line includes DEMOLITIONS, ALL TYPES. The Combat Breacher Vehicle (CBV) is a full tracked armored combat engineer vehicle specifically designed for conducting in-stride and deliberate breaching of minefields and complex obstacles. Based on an Improved Performance M1 Abrams (IPM1) Main Battle Tank chassis, it provides the latest technology in crew protection and vehicle survivability while having the speed and mobility to keep pace with the maneuver force.</p> <p>The Charge, Demolition Block Trinitrotoluene (TNT) 1/4-Pound (DODIC M030) is a standard demolition charge; however, it is primarily used for training purposes. The demolition block charge is issued in an olive drab cylindrical waterproof cardboard container. Each box of 192 charges is provided with 48 M14A1 Priming Adapters.</p> <p>The Charge, Demolition Block Trinitrotoluene (TNT) 1/2-Pound (DODIC M031) is used for general demolition purposes and is primarily effective as a cutting or breaching charge, except for special steel-cutting charges. TNT charges have a high detonating velocity, and may be used in underwater operations. Funds for this item are included in the outyears in this line item.</p> <p>The Charge, Demolition Block Trinitrotoluene (TNT) 1-Pound (DODIC M032) is used for general demolition purposes and is primarily effective as a cutting or breaching charge, except for special steel-cutting charges. TNT charges have a high detonating velocity, and may be used in underwater operations. This charge is enclosed in an olive drab water-resistant fiberboard container having metal end closures. One end is provided with a cap well to receive an electric or non-electric blasting cap.</p> <p>The Cap, Blasting Electric M6 (DODIC M130) is used for initiating high explosives with a blasting machine or other suitable source of electric power. It is capable of detonating all standard military explosives. This blasting cap is waterproof and can be used in underwater demolition. The M6 Blasting Cap consists of an aluminum alloy tube containing a compressed charge of RDX or PETN and an ignition charge.</p> <p>The Cap, Blasting Non-Electric M7 (DODIC M131) is used to detonate high explosives and is initiated by time-blasting fuse. The M7 Blasting Cap consists of an aluminum alloy tube containing a base charge of RDX or PETN, a priming charge, and an ignition charge. The flame from a time blasting fuse or firing device is transferred to the ignition charge in the cap. The ignition charge ignites the priming charge, which in turn detonates the base charge.</p> <p>The Cartridge, Impulse .50 Caliber (DODIC M174) is intended for use in Explosive Ordnance Disposal (EOD) tools and equipment. This cartridge is an electrically initiated gas producing device consisting of a MK1 Mod 2 electric squib containing diazodinitrophenol, potassium chlorate and black powder, and a main charge containing M-10 Single Base Propellant, black powder, and Type 1 Class 1 propellant. Funds for this item are included in the outyears in this line item.</p> <p>The Container, Demolition Charge MK7 Mod 1 (DODIC M477) is used as a form or mold in which plastic explosive can be pressed into a linear charge. The container has a V-shaped cavity to mold the explosive linear charge. The charge is designed to snap together with other MK7 Mod 1 containers</p> <p>The Cutter, High Explosive MK23 Mod 0 (DODIC ML04) is used for cutting or disrupting techniques against ordnance items. The charge consists of a plastic case, stand, and a metal sight. The main charge is 70/30 octol. The charge can be set up for electrical or non-electrical initiation using standard blasting caps. Funds for this item are included in the outyears in this line item.</p>											

Exhibit P-40, Budget Item Justification							Date: FEBRUARY 2005				
Appropriation Code/Budget Activity/Serial Number: Procurement of Ammunition, Navy and Marine				P-1 Item Nomenclature: (150000) DEMOLITION MUNITIONS, ALL TYPES							
Program Element for Code B Items:				Other Related Program Elements							
	ID Code	FY2004	FY2005	FY2006	FY2007	FY2008	FY2009	FY2010	FY2011	To Complete	Total Program
Proc Qty											
Gross Cost	A	5.784	3.257	2.353	0.128	0.766	2.404	28.271	0.000		42.963
Continued: The Cutter, High Explosive MK24 Mod 0 (DODIC ML05) is used for cutting or disrupting techniques against ordnance items. The charge consists of a plastic case, stand, and a metal sight. The main charge is 70/30 octol. The charge can be set up for electrical or non-electrical initiation using standard blasting caps.											
The Charge, Demolition Flexible Linear Shaped 30 Grains Per Foot (DODIC MM41) is designed for fast and reliable cutting of materials. The DODIC MM41 will cut steel up to 0.06-inches thick or aluminum up to 0.11-inches thick. The charge is shaped in the form of an inverted "V" to concentrate an explosive force in a linear cutting action.											
The Charge, Demolition Flexible Linear Shaped 40 Grains Per Foot (DODIC MM42) is designed for fast and reliable cutting of materials. The DODIC MM42 will cut steel up to 0.05 inches thick, or aluminum up to 0.14 inches thick. The charge is shaped in the form of an inverted "V" to concentrate an explosive force in a linear cutting action.											
The Charge, Demolition Flexible Linear Shaped 60 Grains Per Foot (DODIC MM43) is designed for fast and reliable cutting of materials. The DODIC MM43 will cut steel up to 0.10-inches thick, or aluminum up to 0.16-inches thick. The charge is shaped in the form of an inverted "V" to concentrate an explosive force in a linear cutting action.											
The Charge, Demolition Flexible Linear Shaped 225 Grains Per Foot (DODIC MM46) is designed for fast and reliable cutting of materials. The DODIC MM46 will cut steel up to 0.18-inches thick, or aluminum up to 0.31-inches thick. The charge is shaped in the form of an inverted "V" to concentrate an explosive force in a linear cutting action. Funds for this item are included in the outyears in this line item.											
The Charge, Demolition Flexible Linear Shaped 400 Grains Per Foot (DODIC MM47) is designed for fast and reliable cutting of materials. The DODIC MM47 will cut steel up to 0.20-inches thick or aluminum up to 0.41-inches thick. The charge is shaped in the form of an inverted "V" to concentrate an explosive force in a linear cutting action.											
The Firing Device, Demolition Multi-Purpose M142 (DODIC ML03) is used with antipersonnel mines and when setting up booby-traps using demolition charges. The device provides a simple means of mechanical initiation of booby trap by											



Exhibit P-40, Budget Item Justification							Date: FEBRUARY 2005				
Appropriation Code/Budget Activity/Serial Number: Procurement of Ammunition, Navy and Marine				P-1 Item Nomenclature: (150000) DEMOLITION MUNITIONS, ALL TYPES							
Program Element for Code B Items:				Other Related Program Elements							
	ID Code	FY2004	FY2005	FY2006	FY2007	FY2008	FY2009	FY2010	FY2011	To Complete	Total Program
Proc Qty											
Gross Cost	A	5.784	3.257	2.353	0.128	0.766	2.404	28.271	0.000		42.963
Continued: The Charge, Demolition Flexible Linear Shaped 600 Grains Per Foot (DODIC MM48) is designed for fast and reliable cutting of materials. The DODIC MM48 will cut steel up to 0.27-inches thick or aluminum up to 0.46-inches thick. Funds for this item are included in the outyears in this line item.											
The Charge, Demolition Low Hazard MK143 Mod 0 600 Grains Per Foot (DODIC MM51) is a continuous explosive core of plastic bonded explosive with a flexible copper-polymer liner. The charge is encased in lightweight olive drab polyethylene foam. This charge contains 600 grains per foot of a commercial plastic bonded explosive.											
The Charge, Demolition Low Hazard Mk145 Mod 0 2400 Grains Per Foot (DODIC MM53) is a continuous explosive core of plastic-bonded explosive with a flexible copper-polymer liner. The charge is encased in lightweight olive drab polyethylene foam. This charge contains 2400 grains per foot of a commercial plastic bonded explosive. Funds for this item are included in the outyears in this line item.											
The Detonator, Non-Electric MK123 Mod 0 (DODIC MM56) is used in place of the M7 Non-Electric Blasting Cap or the M6 Electric Blasting Cap. It is used where a non-electric waterproof application is desired. The system consists of a dual non-fragmenting 100-foot, co-extruded, olive drab, plastic polyethylene pyrotechnic lead (shock tube).											
Igniter, Time Blasting Fuse, M81 with Shock Tube Capability (DODIC MN08) is used to ignite time blasting fuse or to initiate the shock tube of the new shock tube Non-electric blasting caps.											
The Firing Device, Handheld (Inert) MK 54 MOD 0 (DODIC MN14) consists of two stainless steel cylindrical assemblies connected by a trigger mechanism. A secondary safety pin is inserted through the assemblies. The firing ends of the assemblies are internally threaded to receive the applicable pyrotechnic lead initiator.											
The Detonator, Non-Electric MK154 (DODIC MN52) is used in place of the M7 Non-Electric Blasting Cap or the M6 Electric Blasting Cap. It is used where a non-electric waterproof application is desired. The system consists of a dual non-fragmenting 100-foot, co-extruded, olive drab, plastic polyethylene pyrotechnic lead (shock tube).											

Exhibit P-40a, Budget Item Justification for Aggregated Items								Date: FEBRUARY 2005			
Appropriation Code/Budget Activity/Serial Number: Procurement of Ammunition, Navy and Marine Corps/2/Ammunition					P-1 Item Nomenclature: (150000) DEMOLITION MUNITIONS, ALL TYPES						
Procurement Items	ID Code	FY2004	FY2005	FY2006	FY2007					To Complete	Total
<b>EOD DEVICE, MK 7 MOD 1 (DODIC M477)</b>	A	0.000	0.000	0.002	0.001						
QTY		0	0	144	70						
<b>FIRING DEV, DEMO MULTI (DODIC ML03)</b>	A	0.000	0.000	0.203	0.000						
QTY		0	0	10,119	0						
<b>CTR PWDR ACTUATED (DODIC ML05)</b>	A	0.000	0.000	0.077	0.078						
QTY		0	0	149	146						
<b>CHG, DEMO FLC 30 GR/FT (DODIC MM41)</b>	A	0.000	0.000	0.012	0.007						
QTY		0	0	252	147						
<b>CHG, DEMO FLC 40 GR/FT (DODIC MM42)</b>	A	0.000	0.000	0.027	0.022						
QTY		0	0	644	525						
<b>CHG, DEMO FLC 60 GR/FT (DODIC MM43)</b>	A	0.000	0.000	0.009	0.006						
QTY		0	0	221	143						
<b>CHG, DEMO FLC 400 GR/FT (DODIC MM47)</b>	A	0.000	0.000	0.052	0.000						
QTY		0	0	710	0						
<b>P-40a Sub Total</b>		0.000	0.000	0.382	0.114						

Exhibit P-40a, Budget Item Justification for Aggregated Items	Date: FEBRUARY 2005
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Appropriation Code/Budget Activity/Serial Number: Procurement of Ammunition, Navy and Marine Corps/2/Ammunition	P-1 Item Nomenclature: (150000) DEMOLITION MUNITIONS, ALL TYPES
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Procurement Items	ID Code	FY2004	FY2005	FY2006	FY2007					To Complete	Total
<b>CHG, DEMO FLC 600 GR/FT (DODIC MM51)</b>	A	0.000	0.000	0.017	0.012						
QTY		0	0	550	377						
<b>DET, PERC 175MS DELAY (DODIC MM56)</b>	A	0.000	0.000	0.460	0.00						
QTY		0	0	5,000	0						
<b>DUAL FIRING DEVICE MK54 (DODIC MN14)</b>	A	0.000	0.000	0.004	0.002						
QTY		0	0	26	12						
<b>Detonator, Non-Electric (DODIC MN52)</b>	A	0.019	0.000	0.000	0.000						
QTY		206	0	0	0						
<b>CBV Ammo Development Rqmt</b>	A	0.000	0.245	0.000	0.000						
QTY		0	0	0	0						
<b>Sub Total</b>		0.019	0.245	0.481	0.014						
<b>P-40a Total</b>		0.019	0.245	0.863	0.128						

Exhibit P-5, Cost Analysis								Date: FEBRUARY 2005					
Appropriation Code/Budget Activity/Serial Number: Procurement of Ammunition, Navy and Marine Corps/2/Ammunition		ID Code: A	P-1 Line Item Nomenclature: DEMOLITION MUNITIONS, ALL TYPES (150000)										
		FY04			FY05			FY06			FY07		
WBS COST ELEMENTS		Total Cost	Qty	Unit Cost	Total Cost	Qty	Unit Cost	Total Cost	Qty	Unit Cost	Total Cost	Qty	Unit Cost
<b>CHARGE, DEMO BLOCK 1/4 LB TNT (DODIC M030)</b>													
LOAD, ASSEMBLE, PACK (LAP)		0.054	3,403	15.87									
TNT TYPE I FLAKE (LB)		0.006	1,320	4.55									
<b>CHARGE, DEMO BLOCK 1 LB TNT (DODIC M032)</b>													
CHG DEMO BLK TNT 1 LB								0.717	61,282	11.70			
<b>CAP BLASTING ELEC M6 (DODIC M130)</b>													
COMPLETE ROUND		1.554	69,848	22.25	0.992	47,214	21.01						
<b>CAP BLASTING NON-ELEC M7 (DODIC M131)</b>													
COMPLETE ROUND		3.081	311,842	9.88	1.990	206,326	9.64						
<b>PRODUCT</b>													
ACCEPTANCE TESTING		0.017			0.01								
PRODUCTION ENGINEERING		0.031			0.011			0.003					
QUALITY ASSURANCE		0.013			0.006								
<b>P-5 Sub Total</b>		4.756			3.009			0.720			0.000		

Exhibit P-5, Cost Analysis								Date: FEBRUARY 2005					
Appropriation Code/Budget Activity/Serial Number: Procurement of Ammunition, Navy and Marine Corps/2/Ammunition		ID Code: A	P-1 Line Item Nomenclature: (150000) DEMOLITION MUNITIONS, ALL TYPES										
		FY04			FY05			FY06			FY07		
WBS COST ELEMENTS		Total Cost	Qty	Unit Cost	Total Cost	Qty	Unit Cost	Total Cost	Qty	Unit Cost	Total Cost	Qty	Unit Cost
<b>IGNITER, TIME FUZE BLASTING (DODIC MN08)</b>													
LOAD, ASSEMBLE & PACK (LAP)		1.006	174,652	5.76	0.003	553	5.42	0.767	145,540	5.27			
<b>PRODUCT</b>													
PRODUCTION ENGINEERING		0.002						0.002					
QUALITY ASSURANCE		0.001						0.001					
<b>Sub Total</b>		1.009			0.003			0.770			0.000		
<b>P-5 Total</b>		5.765			3.012			1.490			0.000		

Exhibit P-5a, Procurement History and Planning			Weapon System		Date: FEBRUARY 2005						
Appropriation Code/Budget Activity/Serial Number: Procurement of Ammunition, Navy and Marine Corps/2/Ammunition				P-1 Line Item Nomenclature: DEMOLITION MUNITIONS, ALL TYPES							(150000)
WBS COST ELEMENTS	Qty	Unit Cost	Location of PCO	Contract Method and Type	Contractor and Location	RFP Issue Date	Award Date	Date of First Delivery	Tech Data Available Now?	Date Revisions Available	
<b>CHARGE, DEMO BLOCK 1/4 LB TNT (DODIC M030)</b>											
LOAD, ASSEMBLE, PACK (LAP)											
<b>FY 2004</b>	3,403	15.87	JMC ROCK ISLAND, IL	C/FFP	AMTECH, HUNTSVILLE,AL	OCT 03	SEP 04	MAR 06	YES		
TNT TYPE I FLAKE (LB)											
<b>FY 2004</b>	1,320	4.55	JMC ROCK ISLAND, IL	C/FFP	AMTECH, HUNTSVILLE,AL	OCT 03	SEP 04	MAR 06	YES		
<b>CHARGE, DEMO BLOCK 1 LB TNT (DODIC M032)</b>											
CHG DEMO BLK TNT 1 LB											
<b>FY 2006</b>	61,282	11.70	JMC ROCK ISLAND,IL	C/FFP	AMTECH, HUNTSVILLE, AL	UNKNOWN	SEP 05	MAR 07	NO		
<b>CAP BLASTING ELEC M6 (DODIC M130)</b>											
COMPLETE ROUND											
<b>FY 2004</b>	69,848	22.25	JMC ROCK ISLAND, IL	C/FFP	STRESAU LABORATORY SPOONER, WI	OCT 03	SEP 04	MAR 06	YES		
<b>FY 2005</b>	47,214	21.01	JMC ROCK ISLAND, IL	C/FFP	STRESAU LABORATORY SPOONER, WI	OCT 04	SEP 06	MAR 08	YES		
<b>CAP BLASTING NON-ELEC M7 (DODIC M131)</b>											
COMPLETE ROUND											
<b>FY 2004</b>	311,842	9.88	JMC ROCK ISLAND, IL	C/FFP	TECHNICAL ORDNANCE, CLEAR LAKE, SD	OCT 03	SEP 04	MAR 06	YES		
<b>FY 2005</b>	206,326	9.64	JMC ROCK ISLAND, IL	C/FFP	TECHNICAL ORDNANCE, CLEAR LAKE, SD	OCT 04	SEP 05	MAR 07	YES		
<b>IGNITER, TIME FUZE BLASTING (DODIC MN08)</b>											
LOAD, ASSEMBLE & PACK (LAP)											
<b>FY 2004</b>	174,652	5.76	JMC ROCK ISLAND, IL	C/FFP	MAST TECHNOLOGY, BOULDER CITY, NV	OCT 03	SEP 04	MAR 06	YES		
<b>FY 2005</b>	553	5.42	JMC ROCK ISLAND, IL	C/FFP	MAST TECHNOLOGY, BOULDER CITY, NV	OCT 04	SEP 05	MAR 07	YES		
<b>FY 2006</b>	145,540	5.27	JMC ROCK ISLAND, IL	C/FFP	MAST TECHNOLOGY, BOULDER CITY, NV	UNKNOWN	SEP 06	MAR 08	YES		

Exhibit P-40, Budget Item Justification	Date: FEBRUARY 2005
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Appropriation Code/Budget Activity/Serial Number: Procurement of Ammunition, Navy and Marine Corps/2/Ammunition	P-1 Item Nomenclature: (162500) FUZE, ALL TYPES
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Program Element for Code B Items:	Other Related Program Elements
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	ID Code	FY2004	FY2005	FY2006	FY2007	FY2008	FY2009	FY2010	FY2011	To Complete	Total Program
Proc Qty											
Gross Cost	A	4.342	13.763	3.648	1.859	4.807	45.570	28.237	0.411		102.637

Description: The Fuze, Point Detonating (PD) M739/M739A1 (DODIC N340) is the latest improved version of the selective impact fuzes for use with bulk loaded high explosive or burster type projectiles. This fuze is fired from the M198 155mm Medium Towed Howitzer and is compatible with the XM777 Lightweight Towed Howitzer Weapon System. Funds for this item are included in the outyear totals for this line item.

The M782 Multi-Option Fuze for Artillery (MOFA) M782 (DODIC NA09) is compatible with all current 155mm bursting type artillery projectiles and is fired from the M198 155mm Medium Towed Howitzer and is compatible with the XM777 Lightweight Towed Howitzer Weapon System. The MOFA is inductively set in either the Proximity, Electronic Time, Point Detonating, or Delay mode. As a singular replacement for five different fuzes in the Marine Corps' inventory, the MOFA will reduce the logistical footprint and artillery ammunition handling requirements.

The M762A1 Electronic Time (ET) Fuze (DODIC NA17) is used with projectiles carrying payloads that are expelled during projectile flight (airburst). This fuze is fired from the M198 155mm Medium Towed Howitzer and is compatible with the XM777 Lightweight Towed Howitzer Weapon System.

Exhibit P-5, Cost Analysis												Date: FEBRUARY 2005	
Appropriation Code/Budget Activity/Serial Number: Procurement of Ammunition, Navy and Marine Corps/2/Ammunition		ID Code: A	P-1 Line Item Nomenclature: (162500) FUZE, ALL TYPES										
WBS COST ELEMENTS	FY04			FY05			FY06			FY07			
	Total Cost	Qty	Unit Cost	Total Cost	Qty	Unit Cost	Total Cost	Qty	Unit Cost	Total Cost	Qty	Unit Cost	
<b>FUZE, MULTI-OPTION FOR ARTILLERY M782 (DODIC NA09)</b>													
LAP, COMPLETE ROUND M782	4.162	18,053	230.58	13.192	55,509	237.66	2.101	7,185	292.41				
<b>FUZE, ELECTRONIC TIME M762A1 (DODIC NA17)</b>													
LAP, COMPLETE ROUND							1.416	13,117	108.00	1.808	17,704	102.12	
<b>PRODUCT</b>													
ACCEPTANCE TESTING	0.024			0.076			0.022			0.013			
PRODUCTION ENGINEERING	0.099			0.314			0.075			0.032			
QUALITY ASSURANCE	0.057			0.181			0.034			0.006			
<b>TOTAL</b>	<b>4.342</b>			<b>13.763</b>			<b>3.648</b>			<b>1.859</b>			



Exhibit P-5a, Procurement History and Planning				Weapon System		Date: FEBRUARY 2005				
Appropriation Code/Budget Activity/Serial Number: Procurement of Ammunition, Navy and Marine Corps/2/Ammunition					P-1 Line Item Nomenclature: (162500) FUZE, ALL TYPES					
WBS COST ELEMENTS	Qty	Unit Cost	Location of PCO	Contract Method and Type	Contractor and Location	RFP Issue Date	Award Date	Date of First Delivery	Tech Data Available Now?	Date Revisions Available
<b>FUZE, MULTI-OPTION FOR ARTY M782 (DODIC NA09)</b>										
COMPLETE ROUND M782										
<b>FY 2004</b>	18,053	230.58	ARDEC, PICATINNY, NJ	C/FFP	ALLIANT TECH, PLYMOUTH MN	NOV 03	MAR 04	MAR 05	YES	
<b>FY 2005</b>	55,509	237.66	ARDEC, PICATINNY, NJ	C/FFP	ALLIANT TECH, PLYMOUTH MN	NOV 04	MAR 05	MAR 06	YES	
<b>FY 2006</b>	7,185	292.41	ARDEC, PICATINNY, NJ	C/FFP	ALLIANT TECH, PLYMOUTH MN	UNKNOWN	MAR 06	MAR 07	YES	
<b>FUZE, ELECTRONIC TIME M762A1 (DODIC NA17)</b>										
COMPLETE ROUND M762A1										
<b>FY 2006</b>	13,117	108.00	ARDEC, PICATINNY, NJ	C/FFP	BULOVA TECH, LANCASTER, PA	UNKNOWN	MAR 06	MAR 07	YES	
<b>FY 2007</b>	17,704	102.12	ARDEC, PICATINNY, NJ	C/FFP	BULOVA TECH, LANCASTER, PA	UNKNOWN	MAR 07	MAR 08	YES	

Exhibit P-40, Budget Item Justification								Date: FEBRUARY 2005			
Appropriation Code/Budget Activity/Serial Number: Procurement of Ammunition, Navy and Marine Corps/2/Ammunition						P-1 Item Nomenclature: (162800) NON LETHALS					
Program Element for Code B Items:				Other Related Program Elements							
	ID Code	FY2004	FY2005	FY2006	FY2007	FY2008	FY2009	FY2010	FY2011	To Complete	Total Program
Proc Qty											
Gross Cost	A	3.679	1.141	1.127	1.229	2.974	0.656	0.316	0.386		11.508
<p>Description: The Cartridge, 12 Gauge Non-Lethal Bean Bag (DODIC AA29) is intended for use in crowd control situations where the use of non-lethal force is desired. This cartridge is used with the M500, M590, and M870 12 gauge auto-loading and pump action shotguns. The cartridge case consists of a brass head containing a primer and propellant charge. The plastic sleeve contains a lead shot-filled fabric or nylon bag weighing between 585-685 grains. The cartridge is assembled with a roll crimp with end wad.</p> <p>The Cartridge, 12 Gauge Launching for Grenade Non-Lethal (DODIC AA30) is intended for use in crowd control situations where the use of non-lethal force is desired. This cartridge is used in conjunction with the 12-gauge launch cup on the M500, M590, and M870 12 gauge, Auto loading, and Pump-action Shotguns to launch the rubber ball non-lethal grenade (DODIC GG04). The cartridge case consists of a brass head containing a propellant charge mixture of smokeless powder and black powder in a ratio of approximately 3:1. The cartridge is assembled with a roll crimp with end wad. The plastic sleeve contains a rubber ball.</p> <p>The Cartridge, 12 Gauge Rubber Fin Stabilized Non-Lethal (DODIC AA31) ammunition is intended for use in crowd control situations where the use of non-lethal force is desired. This cartridge is used with the M500, M590, and M870 12-gauge, auto loading, and pump-action shotguns. The cartridge case consists of a brass head containing a propellant charge mixture of smokeless powder and black powder in a ratio of approximately 3:1. The transparent plastic sleeve contains a rubber, fin stabilized projectile. The cartridge is assembled with a roll crimp with end wad.</p> <p>The Cartridge, 40mm Foam Rubber Baton Non-Lethal (DODIC BA07) is intended for use in scenarios where the use of lethal incapacitating force is not warranted. The cartridge is used in M203 Grenade Launchers. The projectile consists of three foam rubber batons in an aluminum case. Each foam rubber weighs 250-280 grains. The foam rubber batons are separated from the propellant by an over powder wad and a plastic gas check. They are enclosed in the cartridge case by a felt washer and an end wad. The cartridge is sealed with polyurethane and the letter "F" on top of the end wad identifies the cartridge.</p> <p>The Cartridge, 40mm Rubber Ball Non-Lethal (DODIC BA08) is intended for use in scenarios where the use of lethal incapacitating force is not warranted. The cartridge is used in the M203 Grenade Launcher. The cartridge contains 22 each .60 caliber rubber balls in an aluminum cartridge case. The rubber balls have a nominal velocity of 325 feet/second at a distance of 3 feet from the muzzle of the M203 Grenade Launcher. The cartridge contains a primer and approximately 7.3 grains of double base smokeless propellant. Each rubber ball weighs about 34 grains. The rubber balls are separated from the propellant by an over powder wad and a plastic gas check, and enclosed in the cartridge case by a felt washer and an end wad. The cartridge is sealed with polyurethane and the letter "B" on top of the end wad identifies the cartridge.</p>											

Exhibit P-40, Budget Item Justification	Date: FEBRUARY 2005
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Appropriation Code/Budget Activity/Serial Number: Procurement of Ammunition, Navy and Marine	P-1 Item Nomenclature: (162800) NON LETHALS
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Program Element for Code B Items:	Other Related Program Elements
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	ID Code	FY2004	FY2005	FY2006	FY2007	FY2008	FY2009	FY2010	FY2011	To Complete	Total Program
Proc Qty											
Gross Cost	A	3.679	1.141	1.127	1.229	2.974	0.656	0.316	0.386		11.508

Description Continuation: The Charge, Diversionary MK141 Mod 0 (DODIC DWBS) is a pyrotechnic device used for diversionary purposes. The Charge, Diversionary is a low hazard, nonshrapnel producing explosive device that produces an intense flash and sound report with a minimal amount of smoke. It consists of two major assemblies, the fuze system and the pyrotechnic charge system. The fuze system is made of 10% glass filled polyethylene and is provided with a striker, metal safety release lever, safety pin assembly, M42 Primer, first fire mixture, a delay column (T1) and a separation charge. The fuze system is threaded into the main body of the pyrotechnic charge system and sealed with an O-ring. The pyrotechnic charge system consists of a main body containing the secondary delay column (T2), ignition charge, and the pyrotechnic output charge. The cylindrical main body is made of machined rigid polyurethane foam and is enshased with adhesive aluminum foil.

The L96E1 grenade (DODIC FZ14) is comprised of a 66mm glass filled nylon propulsion base and a cylindrical rubber body containing the payload. The propulsion base and a cylindrical rubber body containing the payload. The propulsion base contains a gun powder propellant charge, an electric match (fuze) and a gun powder delay. The rubber body payload contains 23 individually fuzed rubber balls that are filled with tear gas of a CS compound .

The L97E1 (DODIC FZ15) is identical in configuration to the L96E1 grenade. However, the L97E1 contains cinnamic acid (CA) which is a Ortho-Chlorobenzylidene Malano-nitrile (CS) stimulant, non-irritant smoke..

The M98 distraction grenade (DODIC FZ16) uses a pyrotechnic charge for crowd control through audio and visual stimuli. The M98 uses the same propulsion base as the M90 grenade, which contains electrical firing contacts and holds the grenade in the 66mm grenade launcher. The propulsion base contacts complete the electrical firing circuit for the electric match, which initiates the propulsion propellant. Immediately above the propulsion base is a pusher plate, and immediately above the pusher plate are three payload canisters. The entire design is encapsulated in an aluminum tube, with a cap crimped on one end and the propulsion base crimped into the other end. Once initiated, the propellant propels the pusher plate and the three canisters through the aluminum tube. Multiple holes in the pusher plate and a hole in each canister allow the launch propellant to push off the end cap and ignite the three pyrotechnic delays within the canisters. The delays are designed to allow the canisters to achieve maximum range and impact the ground before functioning. The M99 Blunt Trauma Grenade (DODIC FZ17) uses a pyrotechnic charge to discharge

The Fuze, Hand Grenade M201A1/M201A1-1 (DODIC G874) is a pyrotechnic delay-igniting fuze. The body contains a primer, first-fire mixture, pyrotechnic delay column, and ignition mixture. Assembled to the body are a striker, striker spring, safety lever and safety pin with pull ring. The split end of the safety pin has an angular spread. The M201A1 (NSN 1330-00-293-9516) is used on smoke and incendiary grenades. The M201A1-1 (1330-01-456-5059) is used on the Grenade, Practice Body Non-Lethal (DODIC GG05). Removal of the safety pin permits release of the safety lever. When the safety lever is released, a striker acting under the force of a striker spring forces it away from the grenade body. The striker rotates on its own axis and strikes the percussion primer. This action initiates the delay element and ignition charge.

Exhibit P-40, Budget Item Justification	Date: FEBRUARY 2005
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Appropriation Code/Budget Activity/Serial Number: Procurement of Ammunition, Navy and Marine Corps/2/Ammunition	P-1 Item Nomenclature: (162800) NON LETHALS
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Program Element for Code B Items:	Other Related Program Elements
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	ID Code	FY2004	FY2005	FY2006	FY2007	FY2008	FY2009	FY2010	FY2011	To Complete	Total Program
Proc Qty											
Gross Cost	A	3.679	1.141	1.127	1.229	2.974	0.656	0.316	0.386		11.508

Description Continuation: The M90 Smoke Grenade (DODIC GG03) is a 66mm, soft launched, non-fragmenting, pyrotechnic smoke dispenser. The M90 screening smoke grenade is a 66mm electrically initiated, soft launched, non-fragmenting, pyrotechnic smoke grenade which creates an obscurant cloud for the LVOSS. The M90 grenade consists of an aluminum body which houses the launch system and three individually dual-ported, core burning smoke canisters containing the screening payload, a Terephthalic Acid (TPA) smoke mix. The grenade is initiated by an electric match, which in turn initiates 1.38 grams of Class 4 Black Powder used for propulsion and to initiate impregnated patches made of Potassium Nitrate, Charcoal, and Gum Arabic Solution, which initiate each of the canisters.

The Grenade, Rubber Ball Non-Lethal (DODIC GG04) is used in crowd control situations where the use of non-lethal force is desired. The grenade body is a rubber sphere that contains a fuze well liner and is filled with a minimum of 100 rubber ball fragments. The rubber ball fragments have a minimum diameter of 0.25 inches. The grenade fuze is a M201A1-1 Pyrotechnic Delay-igniting Fuze. The fuze assembled contains a striker, striker spring, safety lever, safety pin with pull ring, and a detonator assembly. The split end of the safety pin has an angular spread. Safety clips are not required with these grenades. Removal of the safety pin permits release of the safety lever. When the safety lever is released, a striker acting under the force of a striker spring forces it away from the grenade body. The striker rotates on its own axis and strikes the percussion primer. The primer initiates the fuze delay element, which in turn initiates the detonator assembly.

The Grenade, Practice Body Non-Lethal (DODIC GG05) is the practice version of DODIC GG04. The grenade body is a rubber sphere that contains a fuze well liner and is filled with .50 caliber rubber pellets. The rubber ball pellets remain within the body. The grenade body was designed to be utilized with the M201A1-1 Pyrotechnic Delay-igniting Fuze (DODIC G874).

The Grenade, Practice Body Non-Lethal (DODIC GG13) will replace GG05 and is the practice version of DODIC GG04. The grenade body is a rubber sphere that contains a fuze well liner and is filled with .50 caliber rubber pellets. The rubber ball pellets remain within the body. The grenade body was designed to be utilized with the M201A1-1 Pyrotechnic Delay-igniting Fuze (DODIC G874/GG14).

The Fuze, Hand Grenade (DODIC GG14) is a pyrotechnic delay-igniting fuze. The body contains a primer, first-fire mixture, pyrotechnic delay column, and ignition mixture. Assembled to the body are a striker, striker spring, safety lever and safety pin with pull ring. The split end of the safety pin has an angular spread. The M201A1 (NSN 1330-00-293-9516) is used on smoke and incendiary grenades. Removal of the safety pin permits release of the safety lever. When the safety lever is released, a striker acting under the force of a striker spring forces it away from the grenade body. The striker rotates on its own axis and strikes the percussion primer. This action initiates the delay element and ignition charge.

Exhibit P-40a, Budget Item Justification for Aggregated Items

Date:  
FEBRUARY 2005

Appropriation Code/Budget Activity/Serial Number:  
Procurement of Ammunition, Navy and Marine Corps/2/Ammunition

P-1 Item Nomenclature:  
(162800) NON LETHALS

	ID Code	FY2004	FY2005	FY2006	FY2007					To Complete	Total
CTG, 12 GA BEAN BAG, NON LETHAL (DODIC AA29)	A	0.195	0.000	0.000	0.000						
QTY		40,880	0	0	0						
CTG, 12 GA BLANK LAUNCHING (DODIC AA30)	A	0.030	0.000	0.000	0.000						
QTY		109,889	0	0	0						
CTG, 12 GA RUBBER, FIN STABILIZED (DODIC AA31)	A	0.079	0.000	0.000	0.000						
QTY		24,159	0	0	0						
CTG, 40MM FOAM RUBBER BATON (DODIC BA07)	A	0.727	0.000	0.000	0.000						
QTY		60,033	0	0	0						
CTG, 40MM RUBBER BALL (DODIC BA08)	A	0.575	0.000	0.000	0.000						
QTY		68,697	0	0	0						
CHARGE, DIVERSIONARY MK 141/0 (DODIC DWBS)	A	0.782	0.259	0.000	0.729						
QTY		17,842	6,722	0	18,451						
RIOT CONTROL (CS) GRENADE L96 (DODIC FZ14)	A	0.058	0.000	0.163	0.000						
QTY		714	0	1,888	0						
PRAC RIOT CONTRL (CS) GREN L97 (DODIC FZ15)	A	0.051	0.162	0.122	0.122						
QTY		658	2,025	1,481	1,425						
DISTRACTION GREN, M98 F/LVOS (FZ16)	A	0.126	0.000	0.328	0.000						
QTY		549	0	1,331	0						
<b>P-40a Sub Total</b>		<b>2.623</b>	<b>0.421</b>	<b>0.613</b>	<b>0.851</b>						

Exhibit P-40a, Budget Item Justification for Aggregated Items, Continuation								Date: FEBRUARY 2005		
Appropriation Code/Budget Activity/Serial Number: Procurement of Ammunition, Navy and Marine Corps/2/Ammunition					P-1 Item Nomenclature: (162800) NON LETHALS					
	ID Code	FY2004	FY2005	FY2006	FY2007				To Complete	Total
<b>BLUNT TRAUMA GREN, M99 F/LVOS (DODIC FZ17)</b>	A	0.285	0.000	0.132	0.378					
QTY		1,179	0	521	1,423					
<b>FUZE, GRENADE DETONATING (DODIC G874)</b>	A	0.000	0.000	0.242	0.000					
QTY		0	0	69,428	0					
<b>GRENADE, SMOKE M90 F/LVOS (DODIC GG03)</b>	A	0.200	0.000	0.000	0.000					
QTY		2,298	0	0	0					
<b>GRENADE, HAND, RUBBER BALL (DODIC GG04)</b>	A	0.243	0.000	0.000	0.000					
QTY		8,917	0	0	0					
<b>GRENADE, HAND, PRACTICE (DODIC GG05)</b>	A	0.017	0.000	0.140	0.000					
QTY		1,584	0	12,313	0					
<b>GRENADE, PRAC, BODY (DODIC GG13)</b>	A	0.000	0.620	0.000	0.000					
QTY		0	54,577	0	0					
<b>FUZE, HAND GRENADE (DODIC GG14)</b>	A	0.311	0.100	0.000	0.000					
QTY		51,747	16,639	0	0					
<b>P-40a Sub Total</b>		1.056	0.720	0.514	0.378					
<b>P-40a Total</b>		3.679	1.141	1.127	1.229					

Exhibit P-40, Budget Item Justification	Date: FEBRUARY 2005
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Appropriation Code/Budget Activity/Serial Number: Procurement of Ammunition, Navy and Marine Corps/2/Ammunition	P-1 Item Nomenclature: (163000) AMMO MODERNIZATION
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Program Element for Code B Items:	Other Related Program Elements
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	ID Code	FY2004	FY2005	FY2006	FY2007	FY2008	FY2009	FY2010	FY2011	To Complete	Total Program
Proc Qty											
Gross Cost	A	4.907	7.095	7.350	7.712	8.144	8.511	8.895	9.293		61.907

Description: The 40MM Ammunition Modernization (Ammo Mod) consists of the procurement of components, end item modernization, repacking of modernized material and upgrading ammunition stocks suspended from use, and/or declared unsafe or unserviceable.

The Rockets Ammunition Modernization (Ammo Mod) consists of the procurement of components, end item modernization, repacking of modernized material and upgrading ammunition stocks suspended from use, and/or declared unsafe or unserviceable.

The Line Charges Ammunition Modernization (Ammo Mod) consists of the procurement of components, end item modernization, repacking of modernized material and upgrading ammunition stocks suspended from use, and/or declared unsafe or unserviceable.

The Components Ammunition Modernization (Ammo Mod) consists of the procurement of components of various items/DODICs and upgrading ammunition stocks suspended from use, and/or declared unsafe or unserviceable.

The Missiles Ammunition Modernization (Ammo Mod) consists of the procurement of components, end item modernization, repacking of modernized material and upgrading ammunition stocks suspended from use, and/or declared unsafe or unserviceable.

The Quality Evaluation Ammunition Modernization (Ammo Mod) consists of the procurement of components, end item modernization, repacking of modernized material and upgrading ammunition stocks suspended from use, and/or declared unsafe or unserviceable.

Exhibit P-40a, Budget Item Justification for Aggregated Items

Date:  
FEBRUARY 2005

Appropriation Code/Budget Activity/Serial Number:  
Procurement of Ammunition, Navy and Marine Corps/2/Ammunition

P-1 Item Nomenclature:  
(163000) AMMO MODERNIZATION

	ID Code	FY2004	FY2005	FY2006	FY2007					To Complete	Total
CTG, 40MM AMMO MOD	A	0.000	1.159	1.206	1.354						
QTY											
ROCKETS AMMO MOD	A	0.387	1.187	1.228	1.272						
QTY											
LINE CHARGE AMMO MOD	A	1.229	1.187	1.228	1.272						
QTY											
COMPONENTS AMMO MOD	A	1.229	1.187	1.228	1.272						
QTY											
MISSILE COMP AMMO MOD	A	1.229	1.187	1.228	1.272						
QTY											
QUAL EVAL AMMO MOD	A	0.833	1.188	1.232	1.270						
QTY											
TOTAL		4.907	7.095	7.350	7.712						



Exhibit P-40, Budget Item Justification	Date: FEBRUARY 2005
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Appropriation Code/Budget Activity/Serial Number: Procurement of Ammunition, Navy and Marine Corps/2/Ammunition	P-1 Item Nomenclature: (166000) ITEMS LESS THAN \$5 MILLION
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Program Element for Code B Items:	Other Related Program Elements
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	ID Code	FY2004	FY2005	FY2006	FY2007	FY2008	FY2009	FY2010	FY2011	To Complete	Total Program
Proc Qty											
Gross Cost	A	3.390	1.716	18.201	19.895	19.468	19.882	2.835	25.964		111.351

Description: Ammunition Components For Marine Rifle Team (DODIC A001). This funding supports the procurement of components used in building small arms cartridges in support of the Marine Corps Rifle Team, Quantico, Virginia.

The Cartridge, 12 Gauge #00 Buckshot M162 (DODIC A011) is used for training, combat, and guard purposes with the M500, M590, and M870 12-gauge Auto-loading and Pump action Shotguns. Three types of outer casings distinguish DODIC A011; the M19 Brass Cartridge Case, the M162 Plastic Cartridge Case, and the waterproofed paper cartridge case that does not have an assigned model number. Each cartridge case consists of a metal (brass or plated steel) head containing a propellant charge and smokeless powder.

The Cartridge, Caliber .30 Blank M1909 (DODIC A222) is used for simulated firing in training or saluting purposes in the M1903 or M1 .30 Caliber Rifles. The DODIC A222 contains a brass cartridge case, a primer and is loaded with 12 grains of propellant. The M1909 Cartridge is identified by the absence of a bullet and has as crimped cartridge case mouth.

The Cartridge, Caliber .45 Ball M1911 (DODIC A475) is intended for use against personnel and used in the M1911/A1 Automatic Pistols, M1, M1A1, and M3 Submachine Guns. The M1911 Ball consists of a brass or steel cartridge case, a primer, propellant, and a lead-antimony slug.

The Cartridge, .45 Caliber Wadcutter (DODIC A482) is intended for use in the M1911A1 .45 Caliber Pistol. The bullet has a sharp shoulder that acts as a hole punch to cut a clean hole in the target. The DODIC A482 Wadcutter Cartridge consists of a brass cartridge case, a primer, and a truncated cone bullet.

The Cartridge, Caliber .45 Ball M1911 Match (DODIC A483) is intended for use in competitive match programs and target practice used in the M1911/A1 Automatic Pistols. The word MATCH or NM (National Match) stamped on the case head identifies this cartridge. The M1911 Ball consists of a brass cartridge case, a primer, propellant, and a lead-antimony slug.

The Cartridge, 12 Gauge #00 Buckshot 3" (DODIC AA60) is used for training, combat, and guard purposes with the Joint Service Shotgun. The AA60 consists of a brass cartridge case, plastic sleeve, and waterproofed paper plug.

Exhibit P-40, Budget Item Justification								Date: FEBRUARY 2005			
Appropriation Code/Budget Activity/Serial Number: Procurement of Ammunition, Navy and Marine					P-1 Item Nomenclature: (166000) ITEMS LESS THAN \$5 MILLION						
Program Element for Code B Items:				Other Related Program Elements							
	ID Code	FY2004	FY2005	FY2006	FY2007	FY2008	FY2009	FY2010	FY2011	To Complete	Total Program
Proc Qty											
Gross Cost	A	3.390	1.716	18.201	19.895	19.468	19.882	2.835	25.964		111.351
<p>Description Continued: The Cartridge, Explosive Ordnance Disposal, 12 Gauge, MK274 MOD 0, Ultra Velocity Slug (DODIC AA62) is used in the Improvised Explosive Device (IED) standoff disrupter. The cartridge consists of a lead base projectile loaded in a brass and plastic cartridge case with a center percussion primer and 140 grains of propellant.</p> <p>The Cartridge, Explosive Ordnance Disposal, 12 Gauge, MK275 MOD 0, (DODIC AA63) is used in the Improvised Explosive Device (IED) standoff disrupter. The cartridge consists of a lead base projectile loaded in a brass and plastic cartridge case with a center percussion primer and 62 grains of propellant.</p> <p>The Cartridge, Explosive Ordnance Disposal, 12 Gauge, MK276 MOD 0, Low Velocity Blank (DODIC AA64) is used in the Improvised Explosive Device (IED) standoff disrupter package 160 Cartridge M2A1 Ammunition Container. The cartridge consists of a lead base projectile loaded in a brass and plastic cartridge case with a center fire percussion primer and 20 grains of propellant.</p> <p>Cartridge, Explosive Ordnance Disposal, 12 Gauge, MK278 MOD 0 (Black Powder Blank) (DODIC AA66), is used in the Improvised Explosive Device (IED) standoff disrupter.</p> <p>The Cartridge, 75mm Blank M337A2 (DODIC C025) consists of a cartridge case of brass or aluminum containing loosely packed black powder and a press-fitted percussion primer. A fiberglass wad is inserted over the black powder and a polystyrene closing cup is cemented in place with a polyester resin adhesive. The M337A2 Cartridge is fired from the M116, M120, M1A1, M1A1C, and M3 Howitzer assemblies.</p> <p>Cartridge, 12 Gauge, MK 277 Mod 0 (Enhanced Blank), (DODIC DWEC) is used in the Improvised Explosive Device (IED). The cartridge consists of a plastic power wadding (no projectile), loaded in a brass and plastic cartridge case with a center percussion primer and 110 grains of propellant</p>											

Exhibit P-40, Budget Item Justification	Date: FEBRUARY 2005
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Appropriation Code/Budget Activity/Serial Number: Procurement of Ammunition, Navy and Marine	P-1 Item Nomenclature: (166000) ITEMS LESS THAN \$5 MILLION
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Program Element for Code B Items:	Other Related Program Elements
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	ID Code	FY2004	FY2005	FY2006	FY2007	FY2008	FY2009	FY2010	FY2011	To Complete	Total Program
Proc Qty											
Gross Cost	A	3.390	1.716	18.201	19.895	19.468	19.882	2.835	25.964		111.351

Description Continued: Cartridge, 12 Gauge, MK 279 Mod 0 (Steel Slug) (DODIC DWED), is used in the Improvised Explosive Device (IED) standoff disrupter. The cartridge consists of a steel projectile, loaded in a brass and plastic cartridge case with a center percussion primer and 140 grains of propellant.

Cartridge, 12 Gauge, MK 280 Mod 0 (Aluminum Slug) (DODIC: DWEE), is used in the Improvised Explosive Device (IED) standoff disrupter. The cartridge consists of an aluminum projectile, loaded in a brass and plastic cartridge with a center percussion primer and 140 grains of propellant.

Pyrotechnic Lead Spool, Assembly, MK 34 MOD 0 (for Pyrotechnic Lead, 1000 FT) (DODIC DWEI), is packaged 2 reels per CNU - 405/E Ammunition Container.

Transportation funds (FDTC) are required to support the distribution of Marine Corps' ammunition end items from manufacturing plants assembly points. These funds directly support training and readiness requirements of Marines in the field (CONUS or OCONUS).

The Canine Explosive Scent Kit (DODIC MN01) is composed of different samples of common explosives used to train dogs to detect explosives. The samples are packaged in individual containers. The types of explosives can vary based on the type of training being conducted. These samples may be of dynamite, time-safety fuze, C4, TNT, detonating cord, smokeless powder, and water gel explosive.

Funds in support of Marine Security Guard Battalion ammunition requirement are also included.

Exhibit P-40a, Budget Item Justification for Aggregated Items	Date: FEBRUARY 2005
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Appropriation Code/Budget Activity/Serial Number: Procurement of Ammunition, Navy and Marine Corps/2/Ammunition	P-1 Item Nomenclature: (166000) ITEMS LESS THAN \$5 MILLION
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	ID Code	FY2004	FY2005	FY2006	FY2007					To Complete	Total
RIFLE TEAM AMMO (DODIC A001)	A	0.460	0.199	0.206	0.213						
QTY											
CTG, 12 GA 3 IN 00 BKST (DODIC AA60)	A	0.342	0.000	0.000	0.477						
QTY		977,142	0	0	1,163,414						
CTG, 12 GA EOD MK 274 (DODIC AA62)	A	0.002	0.000	0.003	0.003						
QTY		340	0	722	714						
CTG, 12 GA EOD MK 275 (DODIC AA63)	A	0.002	0.000	0.003	0.003						
QTY		321	0	480	476						
CTG, 12 GA EOD MK 276 (DODIC AA64)	A	0.001	0.000	0.003	0.000						
QTY		568	0	1,714	0						
CTG, 12 GA EOD MK 278 MOD 0 (DODIC AA66)	A	0.001	0.000	0.003	0.000						
QTY		418	0	1,224	0						
CTG, 75MM BLANK (DODIC C025)	A	0.000	0.000	0.041	0.000						
QTY		0	0	1,743	0						
<b>P-40a Sub Total</b>		<b>0.808</b>	<b>0.199</b>	<b>0.259</b>	<b>0.696</b>						

Exhibit P-40a, Budget Item Justification for Aggregated Items										Date: FEBRUARY 2005	
Appropriation Code/Budget Activity/Serial Number: Procurement of Ammunition, Navy and Marine Corps/2/Ammunition						P-1 Item Nomenclature: (166000) ITEMS LESS THAN \$5 MILLION					
	ID Code	FY2004	FY2005	FY2006	FY2007					To Complete	Total
CTG,12 GA MK 277 MOD 0 (DODIC DWEC)	A	0.002	0.000	0.006	0.000						
QTY		491	0	1,445	0						
CTG, 12 GA MK 279 (DODIC DWED)	A	0.002	0.000	0.006	0.000						
QTY		308	0	916	0						
CTG, 12 GA MK 280 (DODIC DWEE)	A	0.002	0.000	0.006	0.000						
QTY		308	0	916	0						
ASBLY, PYRO MK 34 (DODIC DWEI)	A	0.067	0.000	16.485	17.234						
QTY		4,598	0	1,063,548	1,077,125						
1ST DESTINATION TRANS (FDTC)	A	1.758	0.000	1.000	1.000						
QTY											
CANINE SCENT KIT (DODIC MN01)	A	0.000	0.200	0.030	0.030						
QTY		0	203	30	30						
MARINE SECURITY GUARD BATTALION	A	0.362	0.359	0.400	0.400						
QTY											
Sub Total		2.193	0.559	17.933	18.664						
P-40a Total		812.193	199.559	282.933	714.664						

Exhibit P-5, Cost Analysis								Date: FEBRUARY 2005				
Appropriation Code/Budget Activity/Serial Number: Procurement of Ammunition, Navy and Marine Corps/2/Ammunition		ID Code: A	P-1 Line Item Nomenclature: (166000) ITEMS LESS THAN \$5 MILLION									
WBS COST ELEMENTS	FY04			FY05			FY06			FY07		
	Total Cost	Qty	Unit Cost	Total Cost	Qty	Unit Cost	Total Cost	Qty	Unit Cost	Total Cost	Qty	Unit Cost
<b>CTG 12 GAUGE 00 BUCKSHOT (DODIC A011)</b>												
LOAD, ASSEMBLE, PACK (LAP)				0.344	114,666	0.30						
BOX METAL M2A1				0.048	7,111	6.75						
<b>CTG .30 CAL BLANK (DODIC A222)</b>												
COMPLETE ROUND							0.007	21,212	0.33	0.017	45,945	0.37
<b>CTG, CAL .45 BALL (DODIC A475)</b>												
COMPLETE ROUND	0.387	1,612,500	0.24	0.563	2,165,384	0.26						
<b>CTG, CAL .45 WADCUTTER (DODIC A482)</b>												
COMPLETE ROUND										0.432	480,219	0.91
<b>CTG, CAL .45 MATCH (A483)</b>												
COMPLETE ROUND												
<b>PRODUCT</b>												
PRODUCTION ENGINEERING	0.001			0.001			0.001			0.002		
QUALITY ASSURANCE	0.001			0.002			0.001			0.004		
<b>P-5 Total</b>	<b>0.389</b>			<b>0.958</b>			<b>0.009</b>			<b>0.455</b>		

Exhibit P-5a, Procurement History and Planning		Weapon System			Date: FEBRUARY 2005					
Appropriation Code/Budget Activity/Serial Number: Procurement of Ammunition, Navy and Marine Corps/2/Ammunition				P-1 Line Item Nomenclature: (166000) ITEMS LESS THAN \$5 MILLION						
WBS COST ELEMENTS	Qty	Unit Cost	Location of PCO	Contract Method and Type	Contractor and Location	RFP Issue Date	Award Date	Date of First Delivery	Tech Data Available Now?	Date Revisions Available
<b>CTG 12 GAUGE 00 BUCKSHOT (DODIC A011)</b>										
LOAD, ASSEMBLE, PACK (LAP)										
<b>FY 2005</b>	114,666	0.30	JMC ROCK ISLAND,IL	C/FFP	Alliant Tech LCAAP , Independence, MO	OCT 04	JAN 05	JUL 05	YES	
BOX METAL M2A1										
<b>FY 2005</b>	7,111	6.75	JMC ROCK ISLAND,IL	C/FFP	Alliant Tech LCAAP , Independence, MO	OCT 04	JAN 05	JUL 05	YES	
<b>CTG .30 CAL BLANK (DODIC A222)</b>										
COMPLETE ROUND										
<b>FY 2006</b>	21,212	0.33	JMC ROCK ISLAND,IL	C/FFP	Alliant Tech LCAAP , Independence, MO	UNKNOWN	DEC 05	OCT 06	NO	
<b>FY 2007</b>	45,945	0.37	JMC ROCK ISLAND,IL	C/FFP	Alliant Tech LCAAP , Independence, MO	UNKNOWN	DEC 06	OCT 07	NO	
<b>CTG, CAL .45 BALL (DODIC A475)</b>										
COMPLETE ROUND										
<b>FY 2004</b>	1,612,500	0.24	JMC ROCK ISLAND,IL	C/FFP	Alliant Tech LCAAP , Independence, MO	OCT 03	JAN 04	JUL 04	YES	
<b>FY 2005</b>	2,165,384	0.26	JMC ROCK ISLAND,IL	C/FFP	Alliant Tech LCAAP , Independence, MO	OCT 04	JAN 05	JUL 05	YES	
<b>CTG, CAL .45 WADCUTTER (DODIC A482)</b>										
COMPLETE ROUND										
<b>FY 2007</b>	480,219	0.90	JMC ROCK ISLAND,IL	C/FFP	Alliant Tech LCAAP , Independence, MO	UNKNOWN	JAN 07	JUL 07	NO	
<b>CTG, CAL .45 MATCH (DODIC A483)</b>										
COMPLETE ROUND										
<b>FY 2007</b>	368,181	0.22	JMC ROCK ISLAND,IL	C/FFP	Alliant Tech LCAAP , Independence, MO	UNKNOWN	DEC 06	JUL 07	NO	