

DEPARTMENT OF THE NAVY  
FISCAL YEAR (FY) 2010  
BUDGET ESTIMATES



JUSTIFICATION OF ESTIMATES  
MAY 2009

PROCUREMENT OF AMMUNITION,  
NAVY AND MARINE CORPS  
BUDGET ACTIVITY 2

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## **Department of Defense Appropriations Act, 2010**

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### **Procurement of Ammunition, Navy and Marine Corps**

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, and the land necessary therefore, 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, \$1,551,455,000, to remain available for obligation until September 30, 2012.

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UNCLASSIFIED

Department of the Navy  
 FY 2010/2011 President's Budget  
 Exhibit P-1 FY 2010 Base and Overseas Contingency Operations (OCO) Request  
 Summary  
 (Dollars in Thousands)

05 MAY 2009

APPROPRIATION: Procurement of Ammo, Navy & MC

Budget Activity -----	FY 2008 Base&OCO Actuals -----	FY 2009 Base&OCO SupReq 4/9/09 -----	FY 2010 Base -----	FY 2010 OCO -----	FY 2010 Total -----
02. Proc Ammo, MC	1,086,988	867,984	391,762	494,211	885,973
TOTAL Procurement of Ammo, Navy & MC	1,086,988	867,984	391,762	494,211	885,973

UNCLASSIFIED

Department of the Navy  
 FY 2010/2011 President's Budget  
 Exhibit P-1 FY 2010 Base and Overseas Contingency Operations (OCO) Request  
 (Dollars in Thousands)

APPROPRIATION: 1508N Procurement of Ammo, Navy & MC

DATE: 05 MAY 2009

LINE NO	ITEM NOMENCLATURE	IDENT CODE	FY 2008 Base&OCO Actuals		FY 2009 Base&OCO SupReq 4/9/09		FY 2010 Base		FY 2010 OCO		FY 2010 Total		S E C
			Quantity	Cost	Quantity	Cost	Quantity	Cost	Quantity	Cost	Quantity	Cost	
BUDGET ACTIVITY 02: Proc Ammo, MC													
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MARINE CORPS AMMUNITION													
15	SMALL ARMS AMMUNITION			210,858		143,018		87,781		16,930		104,711	U
16	LINEAR CHARGES, ALL TYPES	A		13,746		30,444		23,582		5,881		29,463	U
17	40 MM, ALL TYPES	A		98,660		85,384		57,291		104,824		162,115	U
18	60MM, ALL TYPES	A		122,695		64,911		22,037		43,623		65,660	U
19	81MM, ALL TYPES	A		167,621		96,992		54,869		103,647		158,516	U
20	120MM, ALL TYPES	A		147,942		121,552		29,579		62,265		91,844	U
21	CTG 25MM, ALL TYPES	A		12,539		2,293		2,259		563		2,822	U
22	GRENADERS, ALL TYPES	A		56,754		56,584		10,694		6,074		16,768	U
23	ROCKETS, ALL TYPES	A		47,748		31,390		13,948		8,117		22,065	U
24	ARTILLERY, ALL TYPES	A		156,541		180,619		57,948		81,975		139,923	U
25	EXPEDITIONARY FIGHTING VEHICLE	A		4									U
26	DEMOLITION MUNITIONS, ALL TYPES	A		15,543		32,451		14,886		9,241		24,127	U
27	FUZE, ALL TYPES	A		5,913		7,927		575		51,071		51,646	U
28	NON LETHALS	B		13,164		4,310		3,034				3,034	U
29	AMMO MODERNIZATION	A		16,922		5,627		8,886				8,886	U
30	ITEMS LESS THAN \$5 MILLION	A		338		4,482		4,393				4,393	U
TOTAL Proc Ammo, MC				1,086,988		867,984		391,762		494,211		885,973	
TOTAL Procurement of Ammo, Navy & MC				1,086,988		867,984		391,762		494,211		885,973	

Exhibit P-40, Budget Item Justification						Date: MAY 2009				
Appropriation Code/Budget Activity/Serial Number: Procurement of Ammunition, Navy and Marine Corps/2/Ammunition				P-1 Item Nomenclature: (100000) SMALL ARMS AMMUNITION, ALL TYPES						
Program Element for Code B Items:				Other Related Program Elements						
	ID Code	FY08	FY09	FY10	FY10 OCO	FY10 TOTAL				
Proc Qty										
Gross Cost	A	210.858	143.018	87.781	16.930	104.711				
<p>Description:</p> <p>This funding (DODIC A001) supports the procurement of components used in building small arms cartridges in support of the Marine Corps Rifle Team, Quantico, Virginia.</p> <p>The Cartridge, 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.</p> <p>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.</p> <p>The Cartridge, Tracer M856 single round (DODIC A063) is the primary tracer ammunition for the M16A2 Rifle and can be used in the M249 Squad Automatic Weapon (SAW) with a magazine.</p> <p>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. The M856 Tracer cartridge is intended to permit visible observation of the bullet's in-flight path or trajectory to the point of impact.</p> <p>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 cartridge is identified by a rosette crimp closure of the cartridge mouth.</p> <p>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.</p> <p>Cartridge, 7.62 MM (DODIC A102) ball ammunition is designed for use with the AK47 rifle to provide simulated enemy actions during training evolutions.</p> <p>The Cartridge, 7.62 MM blank (DODIC A103) is designed for training exercises to simulate live fire with the AK47 assault rifle.</p> <p>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.</p> <p>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 M62 Tracer round is intended to permit visible observation of the bullet's in-flight path or trajectory to the point of impact.</p>										

BLIN: 100000

Exhibit P-40  
Budget Item Justification

Exhibit P-40, Budget Item Justification	Date: MAY 2009
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Appropriation Code/Budget Activity/Serial Number: Procurement of Ammunition, Navy and Marine Corps/2/Ammunition	P-1 Item Nomenclature: (100000) SMALL ARMS AMMUNITION, ALL TYPES
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Program Element for Code B Items:	Other Related Program Elements
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	ID Code	FY08	FY09	FY10	FY10 OCO	FY10 TOTAL			
Proc Qty									
Gross Cost	A	210.858	143.018	87.781	16.930	104.711			

Description:

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 Cartridge, 7.62mm Tracer M62 Linked (DODIC A146) is used mainly in the M240 Machine Gun against personnel and unarmored targets. The M62 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, 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 M62 Tracer round is intended to permit visible observation of the bullet's in-flight path or trajectory to the point of impact.

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, 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 projectile of the 9mm M939 has a tracer element which allows the user to visually observe the flight of the projectile to the point of impact.

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 Cartridge, Caliber .380 Ball (DODIC A415) is used by the Commandant of the Marine Corps Security Detail.

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 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 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.

BLIN: 100000

Exhibit P-40  
Budget Item Justification



Exhibit P-40, Budget Item Justification	Date: MAY 2009
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Appropriation Code/Budget Activity/Serial Number: Procurement of Ammunition, Navy and Marine Corps/2/Ammunition	P-1 Item Nomenclature: (100000) SMALL ARMS AMMUNITION, ALL TYPES
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Program Element for Code B Items:	Other Related Program Elements
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	ID Code	FY08	FY09	FY10	FY10 OCO	FY10 TOTAL			
Proc Qty									
Gross Cost	A	210.858	143.018	87.781	16.930	104.711			

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 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 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 API MK211 Mod 0 Single Round (DODIC A606) is used in the M82A3 Special Application Scoped Rifle (SASR) sniper rifle against armored targets. This cartridge is an improved version of the M8-API that provides penetration, fragmentation, and fire starting capabilities upon impact.

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 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 versus firing at silhouette impact. When the projectile impact a target, the plastic projectile sheath bears and detergent marks the target indicating a hit.

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.

The Cartridge, Caliber .50 1 Sabot Light Armor Penetrator (SLAP) Linked (DODIC AA38) is used in M2 .50 Caliber Machine Guns against armored targets.

The Cartridge, 5.56mm special match, MK 262, (DODIC AA53) Non-MOLY coated (Tactical) round provides added lethality to the M4 weapon. This .77 grain cartridge enhances special operations capabilities.

BLIN: 100000

Exhibit P-40  
Budget Item Justification

Exhibit P-40, Budget Item Justification	Date: MAY 2009
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Appropriation Code/Budget Activity/Serial Number: Procurement of Ammunition, Navy and Marine Corps/2/Ammunition	P-1 Item Nomenclature: (100000) SMALL ARMS AMMUNITION, ALL TYPES
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Program Element for Code B Items:	Other Related Program Elements
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	ID Code	FY08	FY09	FY10	FY10 OCO	FY10 TOTAL			
Proc Qty									
Gross Cost	A	210.858	143.018	87.781	16.930	104.711			

Description:

The Cartridge, 12 Gauge Door Breaching MK246 Mod 0 (DODIC AA54) is procured from commercial manufacturers for use with the M500, M590, and M870 12-gauge, auto loading, and pump action shotguns. The 12-gauge door-breaching cartridge is intended to destroy locks and fixtures on doors and automobiles with little or no collateral damage to the interior. The cartridge case material is plastic and the cartridge design type is a powdered lead filler contained in a plastic cup.

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

The Cartridge, 5.56mm FX Blue Marking Linked (AA91) is used in the M249 Squad Automatic Weapon, simulating automatic weapon live fire. When the round impacts a target, the plastic projectile sheath breaks and marks the target, indicating a hit.

The Cartridge, 5.56mm FX Red Marking Linked (AA92) is used in the M249 Squad Automatic Weapon, simulating automatic weapon live fire. When the round impacts a target, the plastic projectile sheath breaks and marks the target, indicating a hit.

The Cartridge, 5.56mm FX Blue Single round (AB05) is used in the M16 series weapons, simulating semi-automatic weapon live fire. When the round impacts a target, the plastic projectile sheath breaks and marks the target, indicating a hit.

The Cartridge, 5.56mm FX Red Single round (AB06) is used in the M16 series weapons, simulating semi-automatic weapon live fire. When the round impacts a target, the plastic projectile sheath breaks and marks the target, indicating a hit.

The foreign ammunition (DODIC APKM) is to support the requirements for Marines to conduct familiarization training with the AK series weapons (Soviet 7.62mm x 51mm assault rifles), RPD light machineguns (Soviet 7.62mm x 39 mm machineguns/squad automatic weapons), and PKM medium machineguns (Soviet designed 7.62mm x 54r mm machineguns).

The Cartridge, 9mm Spotting Rifle MK217 Mod 0 (DODIC AX11) is used on the MK153 Assault Rocket Launcher (ARL)/Shoulder-Launched Multipurpose Assault Weapon (SMAW).

BLIN: 100000

Exhibit P-40a, Budget Item Justification for Aggregated Items							Date: MAY 2009			
Appropriation Code/Budget Activity/Serial Number: Procurement of Ammunition, Navy and Marine Corps/2/Ammunition				P-1 Item Nomenclature: (100000) SMALL ARMS AMMUNITION, ALL TYPES						
	ID Code	FY2008	FY2009	FY10	FY10 OCO	FY10 TOTAL				
A102, CTG, 7.62MM X 39 FOR AK-47	A	0.084	0.074	0.084	0.000	0.084				
QTY		262,500	224,242	254,545	0	254,545				
A103, CTG 7.62MM X 39 BLANK F/AK-47	A	0.151	0.000	0.000	0.000	0.000				
QTY		648,387	0	0	0	0				
A260, CTG, 9MM SUBSONIC JHP	A	0.180	0.000	0.000	0.000	0.000				
QTY		296,735	0	0	0	0				
A415, CTG, 9MM SHORT .38 CAL	A	0.004	0.000	0.000	0.000	0.000				
QTY		20,000	0	0	0	0				
AA21, CTG, 9MM SESAMS (BLUE)	A	1.704	1.749	1.000	0.384	1.384				
QTY		2,857,142	4,997,142	2,777,777	1,097,142	3,874,919				
AA53, CTG, 5.56MM NON MOLY COATED	A	0.206	0.000	0.000	0.000	0.000				
QTY		412,000	0	0	0	0				
AA91, CTG, 5.56MM FX BLUE MARKING LINKED	A	0.087	0.092	0.000	0.000	0.000				
QTY		142,622	143,750	0	0	0				
AA92, CTG, 5.56MM FX RED MARKING LINKED	A	0.046	0.047	0.000	0.000	0.000				
QTY		71,758	73,437	0	0	0				
AB05, CTG, 5.56MM FX ORANGE MARKING LINKED	A	0.041	0.043	0.000	0.000	0.000				
QTY		80,392	79,629	0	0	0				
AB06, CTG, 5.56MM FX RED MARKING SNGL RD	A	0.030	0.031	0.000	0.000	0.000				
QTY		58,823	57,407	0	0	0				
AX11, CTG, 9MM FOR SMAW	A	0.631	0.650	0.000	0.000	0.000				
QTY		270,815	263,157	0	0	0				
TOTAL		3.164	2.686	1.084	0.384	1.468				

BLIN: 100000

Exhibit P-40a

Budget Item Justification for Aggregated Items

Exhibit P-5, Cost Analysis		Weapon System			Date: MAY 2009							
Appropriation Code/Budget Activity/Serial Number: Procurement of Ammunition, Navy and Marine Corps/2/Ammunition				Code A	P-1 Line Item Nomenclature: (100000) SMALL ARMS AMMUNITION, ALL TYPES							
WBS COST ELEMENTS	FY08			FY09			FY10			FY10 OCO		
	Total Cost	Qty	Unit Cost	Total Cost	Qty	Unit Cost	Total Cost	Qty	Unit Cost	Total Cost	Qty	Unit Cost
HARDWARE												
A059, CTG, 5.56MM BALL												
LOAD, ASSEMBLE & PACK (LAP)	91.935	383,064,615	0.24	37.392	120,618,074	0.31	56.539	176,683,207	0.32	2.491	7,784,539	0.32
BOX METAL M2A1 (EA)	3.351	394,557	8.95	1.632	145,948	11.18	2.373	213,787	11.10	0.105	9,419	11.10
A062, CTG, 5.56MM BALL LINKED												
COMPLETE ROUND	0.120	326,223	0.37	1.048	2,230,000	0.47	0.133	148,290	0.91	0.000	0	0.00
A064, CTG, 5.56MM 4 & 1 LINKED												
COMPLETE ROUND	22.562	60,977,925	0.37	18.651	37,301,982	0.50	3.021	3,472,413	0.87	2.309	2,654,022	0.87
A075, CTG, 5.56MM BLANK LINKED												
COMPLETE ROUND	0.779	2,291,183	0.34	3.271	9,344,364	0.35	1.303	1,357,291	0.96	1.063	1,107,291	0.96
A080, CTG, 5.56MM BLANK												
LOAD, ASSEMBLE & PACK (LAP)	0.883	8,022,910	0.11	1.285	7,557,279	0.17	1.328	7,379,990	0.18	0.000	0	0.00
BOX METAL M2A1 (EA)	0.063	7,141	8.88	0.075	6,726	11.18	0.073	6,569	11.10	0.000	0	0.00
A111, CTG, 7.62MM BLANK LINKED												
COMPLETE ROUND				9.946	26,173,484	0.38						
A131, CTG, 7.62MM 4 & 1 LINKED												
COMPLETE ROUND	29.191	52,127,608	0.56	22.893	32,704,465	0.70	4.933	6,577,333	0.75	2.866	3,821,333	0.75
A143, CTG, 7.62MM BALL LINKED												
COMPLETE ROUND	11.639	22,381,760	0.52	3.954	5,730,878	0.69	3.899	4,641,666	0.84	0.822	978,571	0.84
A151, CTG, 7.62MM 4 & 1 LINKED												
COMPLETE ROUND	0.122	291,348	0.42									
A363, CTG, 9MM BALL												
LOAD, ASSEMBLE & PACK (LAP)				2.041	14,579,521	0.140	3.142	22,445,319	0.140			
BOX METAL M2A1 (EA)				0.165	14,726	11.180	0.252	22,670	11.100			
SUB TOTAL	160.645			102.353			76.996			9.656		

BLIN: 100000

Exhibit P-5, Cost Analysis			Weapon System			Date: MAY 2009						
Appropriation Code/Budget Activity/Serial Number: Procurement of Ammunition, Navy and Marine Corps/2/Ammunition			ID Code: A	P-1 Line Item Nomenclature: (100000) SMALL ARMS AMMUNITION, ALL TYPES								
WBS COST ELEMENTS	FY08			FY09			FY10			FY10 OCO		
	Total Cost	Qty	Unit Cost	Total Cost	Qty	Unit Cost	Total Cost	Qty	Unit Cost	Total Cost	Qty	Unit Cost
A475, CTG, CAL .45 BALL LOAD, ASSEMBLE & PACK (LAP)				1.945	3,038,312	0.640						
BOX METAL M2A1 (EA)				0.034	3,069	11.180						
A482, CTG, CAL .45 BALL WADCUTTER COMPLETE ROUND				0.043	106,481	0.400						
A483, CTG, CAL .45 MATCH GRADE LOAD, ASSEMBLE & PACK (LAP)				0.178	322,820	0.550						
BOX METAL M2A1 (EA)				0.004	327	11.180						
A576, CTG, CAL .50 4 & 1 LINKED LOAD, ASSEMBLE & PACK (LAP)	25.822	10,328,600	2.500	20.023	6,674,260	3.000	6.334	1,985,720	3.190	4.775	1,496,777	3.190
BOX METAL M2A1 (EA)	0.735	76,019	9.670	0.754	67,411	11.180	0.223	20,056	11.100	0.168	15,118	11.100
A598, CTG, CAL .50 BLANK LINKED M2 LOAD, ASSEMBLE & PACK (LAP)				0.103	104,634	0.980	0.860	79,328	1.080			
BOX METAL M2A1 (EA)				0.012	1,057	11.180	0.009	802	11.100			
A606, CTG, CAL .50 API SNIPER RIFLE LOAD, ASSEMBLE & PACK (LAP)	13.091	1,620,146	8.080	4.006	411,692	9.730	0.194	18,086	10.750			
BOX METAL M2A1 (EA)	0.149	13,772	10.830	0.039	3,459	11.180	0.002	152	11.100			
AA11, CTG, 7.62MM BALL LONG RANGE LOAD, ASSEMBLE & PACK (LAP)	1.414	2,571,150	0.550	2.108	3,011,884	0.700	0.189	227,616	0.830	1.759	2,118,945	0.830
BOX METAL M2A1 (EA)	0.054	5,657	9.580	0.074	6,627	11.180	0.006	501	11.100	0.052	4,662	11.100
AA54, CTG, 12GA BREACHING ROUND COMPLETE ROUND				1.703	784,975	2.170						
PRODUCT												
ACCEPTANCE TESTING	1.295			2.279			0.633					
PRODUCTION ENGINEERING	3.235			3.653			1.187			0.134		
QUALITY ASSURANCE	0.685			1.021			0.011			0.002		
Non-Reoccurring												
Reference Rounds							0.053					
DOLLARS NOT IN UNIT PRICE	0.566											
ROUNDING	0.001											
EPA CLAIM	0.002											
SUB TOTAL	47.049			37.979			9.701			6.890		
TOTAL	207.694			140.332			86.697			16.546		

BLIN: 100000

Exhibit P-5a, Procurement History and Planning				Weapon System			Date: MAY 2009			
Appropriation Code/Budget Activity/Serial Number: Procurement of Ammunition, Navy and Marine Corps/2/Ammunition				P-1 Line (100000)	Item Nomenclature: SMALL ARMS AMMUNITION, ALL TYPES					
WBS COST ELEMENTS	Qty	Unit FY08	FY09	RFP Issue FY10	Contract Method FY10 OCO	FY10 TOTAL	Award Date	Date of First Delivery	Tech Data Available Now?	Date Revisions Available
A059, CTG, 5.56MM BALL LOAD, ASSEMBLE & PACK (L										
FY 2008	327,436,455	0.24	JMC, ROCK ISLAND, IL	OCT 04	SS/FP	ALLIANT (LCAAP), INDEPENDENCE, MO	FEB 08	OCT 08	NO	
FY 2008	55,628,160	0.24	JMC, ROCK ISLAND, IL	OCT 04	SS/FP	PETERSBURG, FL,	MAR 08	OCT 09	NO	
FY 2009	120,618,074	0.31	JMC, ROCK ISLAND, IL	OCT 04	SS/FP	ALLIANT (LCAAP), INDEPENDENCE, MO	MAR 09	DEC 09	YES	
FY 2010	184,467,746	0.32	JMC, ROCK ISLAND, IL	OCT 04	SS/FP	ALLIANT (LCAAP), INDEPENDENCE, MO	JAN 10	OCT 10	YES	
BOX METAL M2A1 (EA)										
FY 2008	334,462	8.95	JMC, ROCK ISLAND, IL	UNKNOWN	C/OP	BROCKWAY STANDARD, ATLANTA, GA	MAR 08	SEP 08	NO	
FY 2008	60,095	8.95	JMC, ROCK ISLAND, IL	OCT 04	C/OP	BEST FOAM FAB, CHICAGO, IL	MAR 08	SEP 08	NO	
FY 2009	145,948	11.18	JMC, ROCK ISLAND, IL	UNKNOWN	C/FP	TBD	JUL 09	SEP 09	YES	
FY 2010	223,206	11.10	JMC, ROCK ISLAND, IL	UNKNOWN	C/OP	TBD	MAR 10	SEP 10	YES	
A062, CTG, 5.56MM BALL LI COMPLETE ROUND, A062										
FY 2008	326,223	0.37	JMC, ROCK ISLAND, IL	UNKNOWN	SS/FP	ALLIANT (LCAAP), INDEPENDENCE, MO	MAR 08	OCT 08	NO	
FY 2009	2,230,000	0.47	JMC, ROCK ISLAND, IL	UNKNOWN	SS/FP	ALLIANT (LCAAP), INDEPENDENCE, MO	MAR 09	OCT 09	YES	
FY 2010	148,290	0.91	JMC, ROCK ISLAND, IL	UNKNOWN	SS/FP	ALLIANT (LCAAP), INDEPENDENCE, MO	JAN 10	OCT 10	YES	
A064, CTG, 5.56MM 4 & 1 I COMPLETE ROUND, A064										
FY 2008	60,977,925	0.37	JMC, ROCK ISLAND, IL	OCT 04	SS/FP	ALLIANT (LCAAP), INDEPENDENCE, MO	MAR 08	OCT 08		
FY 2009	37,301,982	0.50	JMC, ROCK ISLAND, IL	OCT 04	SS/FP	ALLIANT (LCAAP), INDEPENDENCE, MO	MAR 09	DEC 09	YES	
FY 2010	6,126,435	0.87	JMC, ROCK ISLAND, IL	OCT 04	SS/FP	ALLIANT (LCAAP), INDEPENDENCE, MO	JAN 10	OCT 10	YES	
A075, CTG, 5.56MM BLANK I COMPLETE ROUND, A075										
FY 2008	2,291,183	0.34	JMC, ROCK ISLAND, IL	UNKNOWN	SS/FP	ALLIANT (LCAAP), INDEPENDENCE, MO	MAR 08	SEP 08		
FY 2009	9,344,364	0.35	JMC, ROCK ISLAND, IL	UNKNOWN	SS/FP	ALLIANT (LCAAP), INDEPENDENCE, MO	MAR 09	OCT 09	YES	
FY 2010	2,464,582	0.96	JMC, ROCK ISLAND, IL	UNKNOWN	SS/FP	ALLIANT (LCAAP), INDEPENDENCE, MO	JAN 10	OCT 10	YES	
A080, CTG, 5.56MM BLANK LOAD, ASSEMBLE & PACK (L										
FY 2008	8,022,910	0.11	JMC, ROCK ISLAND, IL	UNKNOWN	SS/FP	ALLIANT (LCAAP), INDEPENDENCE, MO	MAR 08	OCT 08		
FY 2009	7,557,279	0.17	JMC, ROCK ISLAND, IL	UNKNOWN	SS/FP	ALLIANT (LCAAP), INDEPENDENCE, MO	MAR 09	OCT 09	YES	
FY 2010	7,379,990	0.18	JMC, ROCK ISLAND, IL	UNKNOWN	SS/FP	ALLIANT (LCAAP), INDEPENDENCE, MO	JAN 10	OCT 10	YES	
BOX METAL M2A1 (EA)										
FY 2008	1,428	8.88	JMC, ROCK ISLAND, IL	UNKNOWN	C/OP	BEST FOAM FAB, CHICAGO, IL	MAR 08	SEP 08	NO	
FY 2008	5,713	8.88	JMC, ROCK ISLAND, IL	UNKNOWN	C/OP	BROCKWAY STANDARD, ATLANTA, GA	MAR 08	SEP 08	NO	
FY 2009	6,726	11.18	JMC, ROCK ISLAND, IL	UNKNOWN	C/FP	TBD	JUL 09	SEP 09	YES	
FY 2010	6,569	11.10	JMC, ROCK ISLAND, IL	UNKNOWN	C/OP	TBD	MAR 10	SEP 10	YES	
A111, CTG, 7.62MM BLANK I COMPLETE ROUND, A111										
FY 2009	26,173,484	0.38	JMC, ROCK ISLAND, IL	OCT 04	SS/FP	ALLIANT (LCAAP), INDEPENDENCE, MO	MAR 09	DEC 09	YES	
A131, CTG, 7.62MM 4 & 1 I COMPLETE ROUND, A131										
FY 2008	52,127,608	0.56	JMC, ROCK ISLAND, IL	OCT 04	SS/FP	ALLIANT (LCAAP), INDEPENDENCE, MO	JAN 08	OCT 08		
FY 2009	32,704,465	0.70	JMC, ROCK ISLAND, IL	UNKNOWN	SS/FP	ALLIANT (LCAAP), INDEPENDENCE, MO	MAR 09	DEC 09	YES	
FY 2010	10,398,666	0.75	JMC, ROCK ISLAND, IL	UNKNOWN	SS/FP	ALLIANT (LCAAP), INDEPENDENCE, MO	JAN 10	OCT 10	YES	

BLIN: 100000

Exhibit P-5a, Procurement History and Planning				Weapon System			Date:			
Appropriation Code/Budget Activity/Serial Number:				P-1 Line Item Nomenclature:						
Procurement of Ammunition, Navy and Marine Corps/2/Ammunition				(100000) SMALL ARMS AMMUNITION, ALL TYPES						
WBS COST ELEMENTS	Qty	Unit FY08	FY09	RFP Issue FY10	Contract Method FY10 OCO	FY10 TOTAL	Award Date	Date of First Delivery	Tech Data Available Now?	Date Revisions Available
A143, CTG, 7.62MM BALL LINKED										
COMPLETE ROUND, A143										
FY 2008	5,735,200	0.52	JMC, ROCK ISLAND, IL	OCT 05	SS/FP	PETERSBURG, FL,	SEP 08	OCT 09		
FY 2008	16,646,560	0.52	JMC, ROCK ISLAND, IL	OCT 05	SS/FP	ALLIANT (LCAAP), INDEPENDENCE, MO	JAN 08	DEC 08		
FY 2009	5,730,878	0.69	JMC, ROCK ISLAND, IL	OCT 05	SS/FP	ALLIANT (LCAAP), INDEPENDENCE, MO	JAN 09	OCT 09	YES	
FY 2010	5,620,237	0.84	JMC, ROCK ISLAND, IL	UNKNOWN	SS/FP	ALLIANT (LCAAP), INDEPENDENCE, MO	JAN 10	OCT 10	YES	
A151, CTG, 7.62MM 4 & 1 LINKED										
COMPLETE ROUND, A151										
FY 2008	291,348	0.42	JMC, ROCK ISLAND, IL	UNKNOWN	SS/FP	ALLIANT (LCAAP), INDEPENDENCE, MO	JAN 08	OCT 09		
A363, CTG, 9MM BALL										
LOAD, ASSEMBLE & PACK (LAP)										
FY 2009	14,579,521	0.14	JMC, ROCK ISLAND, IL	UNKNOWN	SS/OPTION	OLIN CORP, EAST ALTON, IL	JAN 09	JUL 09	YES	
FY 2010	22,445,319	0.14	JMC, ROCK ISLAND, IL	UNKNOWN	SS/OPTION	OLIN CORP, EAST ALTON, IL	JAN 10	JUL 10	YES	
BOX METAL M2A1 (EA)										
FY 2009	14,726	11.18	JMC, ROCK ISLAND, IL	UNKNOWN	C/FP	TBD	JUL 09	JUL 09	YES	
FY 2010	22,670	11.10	JMC, ROCK ISLAND, IL	UNKNOWN	C/OPTION	TBD	MAR 10	MAY 10	YES	
A475, CTG, .45 BALL										
LOAD, ASSEMBLE & PACK (LAP)										
FY 2009	3,038,312	0.64	JMC, ROCK ISLAND, IL	UNKNOWN	SS/FP	ALLIANT (LCAAP), INDEPENDENCE, MO	JAN 09	JUL 09	YES	
BOX METAL M2A1 (EA)										
FY 2009	3,069	11.18	JMC, ROCK ISLAND, IL	UNKNOWN	C/OPTION	TBD	JUL 09	JUL 09	YES	
A482, CTG, .45 CAL BALL WADCUTTE										
COMPLETE ROUND, A482										
FY2009	106,481	0.40	JMC, ROCK ISLAND, IL	UNKNOWN	SS/FP	ALLIANT (LCAAP), INDEPENDENCE, MO	JAN 09	JUL 09	YES	
A483, CTG, .45 MATCH										
LOAD, ASSEMBLE & PACK (LAP)										
FY 2009	322,820	0.55	JMC, ROCK ISLAND, IL	UNKNOWN	SS/FP	ALLIANT (LCAAP), INDEPENDENCE, MO	JAN 09	JUL 09	YES	
BOX METAL M2A1 (EA)										
FY 2009	327	11.18	JMC, ROCK ISLAND, IL	UNKNOWN	SS/FP	ALLIANT (LCAAP), INDEPENDENCE, MO	JAN 09	JUL 09	YES	
A576, CTG, CAL .50 4 & 1 LINKED										
LOAD, ASSEMBLE & PACK (LAP)										
FY 2008	2,800,000	2.50	JMC, ROCK ISLAND, IL	OCT 04	SS/FP	GENERAL DYNAMICS ORD & TAC SYS INC	FEB 08	AUG 09	NO	
FY 2008	7,528,600	2.50	JMC, ROCK ISLAND, IL	OCT 04	SS/FP	ALLIANT (LCAAP), INDEPENDENCE, MO	MAR 08	JAN 09	NO	
FY 2009	6,674,260	3.00	JMC, ROCK ISLAND, IL	OCT 04	SS/FP	ALLIANT (LCAAP), INDEPENDENCE, MO	MAR 09	OCT 09	YES	
FY 2010	870,625	3.19	JMC, ROCK ISLAND, IL		SS/FP	GENERAL DYNAMICS ORD & TAC SYS INC	JUN 10	MAR 11	YES	
FY 2010	2,611,872	3.19	JMC, ROCK ISLAND, IL		SS/FP	ALLIANT (LCAAP), INDEPENDENCE, MO	JAN 10	OCT 10	YES	
BOX METAL M2A1 (EA)										
FY 2008	30,257	9.67	JMC, ROCK ISLAND, IL	OCT 04	C/FP	BEST FOAM FAB, CHICAGO, IL	JUN 08	SEP 08	NO	
FY 2008	45,762	9.67	JMC, ROCK ISLAND, IL	OCT 04	C/FP	BWAY CORPORATION, ATLANTA,	MAR 08	SEP08	NO	
FY 2009	67,411	11.18	JMC, ROCK ISLAND, IL	OCT 04	C/FP	TBD	JUL 09	SEP 09	YES	
FY 2010	35,174	11.10	JMC, ROCK ISLAND, IL	OCT 04	C/OP	TBD	MAR 10	SEP 10	YES	
A598 CTG, CAL .50 BLANK M1A1 LKD										
FY 2009	104,634	0.98	JMC, ROCK ISLAND, IL		SS/FP	ALLIANT (LCAAP), INDEPENDENCE, MO	MAR 09	OCT 09	YES	
FY 2010	79,328	1.08	JMC, ROCK ISLAND, IL		SS/FP	ALLIANT (LCAAP), INDEPENDENCE, MO	JAN 10	OCT 10	YES	
BOX METAL M2A1 (EA)										
FY 2009	1,057	11.18	JMC, ROCK ISLAND, IL		C/FP	TBD	JUL 09	SEP 09	YES	
FY 2010	802	11.10	JMC, ROCK ISLAND, IL		C/OP	TBD	MAR 10	SEP 10	YES	

BLIN: 100000









Exhibit P-21, Production Schedule																	Date: MAY 2009																	
Appropriation Code/Budget Activity/Serial Number: Procurement of Ammunition, Navy and Marine Corps/2/Ammunition													Weapon System				P-1 Line Item Nomenclature: (100000) DODIC: A111, CTG, 7.62MM BLANK LINKED																	
																	PRODUCTION RATE					PROCUREMENT LEADTIMES												
Item	Manufacturer's Name and Location																MSR	ECON	MAX	ALT Pri to Oct	ALT Aft Oct 1	Initial Mfg PLT	Reorder Mfg PLT	Total	Unit of Measure									
A111	1 ALLIANT (LCAAP), INDEPENDENCE, MO																0	5.16	17.77	6	5	9	9	14	M									
																	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				
A111	2009	MC1	26.2	0	26.2																										26.2			
																	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				
A111	2009	MC1	26.2	0	26.2			2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.8														0			

REMARKS:  
BLIN: 100000

Exhibit P-21, Production Schedule														Date: MAY 2009																							
Appropriation Code/Budget Activity/Serial Number: Procurement of Ammunition, Navy and Marine Corps/2/Ammunition														Weapon System		P-1 Line Item Nomenclature: (100000) DODIC: A131, CTG, 7.62MM 4 & 1 LINKED																					
														PRODUCTION RATE						PROCUREMENT LEADTIMES																	
Item	Manufacturer's Name and Location													MSR	ECON	MAX	ALT Pri to Oct	ALT Aft Oct 1	Initial Mfg PLT	Reorder Mfg PLT	Total	Unit of Measure															
A131	1 ALLIANT (LCAAP), INDEPENDENCE, MO													0	13.85	47.8	4	3	9	9	12	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							
A131	2008	MC1	52.1	0.0	52.1				A									0.7	0.2	9.5	6.4	14	11	9.3	0.6					0							
	2009	MC1	32.7	0.0	32.7																		A							32.7							
	2010	MC1	10.3	0.0	10.3																									9.7							
														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							
A131	2008	MC1	52.1	52.1	0																									0							
	2009	MC1	32.7	0	32.7			3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3													0							
	2010	MC1	10.3	0	10.3				A									1.5	1.5	1.5	1.5	1.5	1.5	1.3					0								

REMARKS: THIS DOES NOT REFLECT THE ARMY 'S BUYS WHICH MAKE UP THE CONTRACTOR'S 1-8-5 PRODUCTION RATES.  
CONTRACTOR'S PRODUCTION RATES ARE IN "MS".

BLIN: 100000







Exhibit P-21, Production Schedule																		Date: MAY 2009																																			
Appropriation Code/Budget Activity/Serial Number: Procurement of Ammunition, Navy and Marine Corps/2/Ammunition																		Weapon System P-1 Line Item Nomenclature: (100000) DODIC: A606, CTG, CAL .50 API SNIPER RIFLE																																			
																		PRODUCTION RATE						PROCUREMENT LEADTIMES																													
Item	Manufacturer's Name and Location																	MSR	ECON	MAX	ALT Prio to Oct 1	ALT After Oct 1	Initial Mfg PLT	Reorder Mfg PLT	Total	Unit of Measure																											
A606	1 ALLIANT (LCAAP), INDEPENDENCE, MO																	0	.14	.5	6	5	10	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																							
A606	2008	MC1	1.62	0.00	1.62								A									0.03	0.03	0.06	0.13	0.09	0.09	0.05	0.08	0.11	0.95																						
	2009	MC1	0.41	0.00	0.41																									A	0.41																						
	2010	MC1	0.02	0.00	0.02																																																
																		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																							
A606	2008	MC1	1.62	0.67	0.95	0.09	0.05	0.05	0.08	0.09	0.09	0.09	0.09	0.09	0.05	0.09	0.09														0.00																						
	2009	MC1	0.41	0.00	0.41	0.04	0.04	0.04	0.03	0.03	0.04	0.03	0.03	0.03	0.04	0.03	0.03														0.00																						
	2010	MC1	0.02	0.00					A									0.01	0.01											0.00																							
																		Fiscal Year 2010												Fiscal Year 2011																							
																		Calendar Year 2010																								Calendar Year 2011											
REMARKS:																																																					

BLIN: 100000

Exhibit P-21  
Production Schedule



Exhibit P-40, Budget Item Justification	Date: MAY 2009
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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	FY 2008	FY 2009	FY 2010 BASELINE	FY 2010 OCO	FY 2010 TOTAL					
Proc Qty											
Gross Cost	A	13.746	30.444	23.582	5.881	29.463					

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. The rocket motor is approximately 77 inches long, 5 inches in diameter, weighs 128 pounds, and contains 42 pounds of N-5 double-base propellant.

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 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 total explosive weight of the demolition blocks is 1,750 pounds.

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 MK7 MOD 2 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			Weapon System			Date: MAY 2009						
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								
WBS COST ELEMENTS	FY08			FY09			FY10 BASELINE			FY10 OCO		
	Total Cost	Qty	Unit Cost	Total Cost	Qty	Unit Cost	Total Cost	Qty	Unit Cost	Total Cost	Qty	Unit
HARDWARE												
M913, CHARGE, DEMO LINEAR HE												
LOAD, ASSEMBLE & PACK (LAP)	2.408	149	16164.23	3.298	204	16164.23	0.595	35		1.869	110	16988.84
COMP C-4 CLASS 3 (LB)	2.543	268200	9.48	3.581	377780	9.48	1.221	63,000	16988.00	3.837	198,000	19.38
FUZE ELECTRIC M1134A4 (EA)	0.373	149	2500.00	0.256	204	1256.93	0.044	35	19.38	0.138	110	1256.93
									1256.93			
M914, CHARGE, LINEAR INERT							0.430	16				
COMPLETE ROUND									26877.42			
MN79, APERS OBSTACLE BREACHING SYSTEM												
LOAD, ASSEMBLE & PACK (LAP)	8.393	588	14,273.81	19.636	1337	14686.38	20.584	1819				
									11316.10			
PRODUCT												
ACCEPTANCE TESTING				0.050								
CONTAINER EFFORT												
INDUSTRIAL STOCK SUPPORT												
PRODUCTION ENGINEERING	0.025			0.191			0.331			0.025		
QUALITY ASSURANCE	0.004			0.004			0.009			0.012		
NONRECURRING												
GOVERNMENT FURNISHED MATERIAL				-0.256			-0.182					
TOTAL	13.746			26.760			23.032			5.881		

BLIN: 103000



Exhibit P-21, Production Schedule															Date: MAY 2009																			
Appropriation Code/Budget Activity/Serial Number: Procurement of Ammunition, Navy and Marine Corps/2/Ammunition										Weapon System					P-1 Line Item Nomenclature: (103000) DODIC: M913, CHARGE, DEMO LINEAR HE																			
															PRODUCTION RATE					PROCUREMENT LEADTIMES														
Item	Manufacturer's Name and Location										MSR	ECON	MAX	ALT Prior to Oct 1	ALT After Oct 1	Initial Mfg PLT	Reorder Mfg PLT	Total	Unit of Measure															
M913	1 AMERICAN ORDNANCE, MILAN, TN										15	50	150	6	5	17	17	22	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 V C	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	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				
M913	2008	M C 1	0.149	0	0.149																										0.149			
	2009	M C 1	0.204	0	0.204																										0.204			
	2010	M C 1	0.145	0	0.145																										0.145			
															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 V C	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	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				
M913	2008	M C 1	0.149	0	0.149											0.149															0			
	2009	M C 1	0.204	0	0.204																	0.105	0.099								0			
	2010	M C 1	0.145	0	0.145																										0			

BLIN: 103000

Exhibit P-21  
Production Schedule

Exhibit P-21, Production Schedule	Date: MAY 2009
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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 Nomenclature: (103000) DODIC: MN79, APERS OBSTACLE BREACHING SYS
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Item	Manufacturer's Name and Location	PRODUCTION RATE			PROCUREMENT LEADTIMES						Unit of Measure
		MSR	ECON	MAX	ALT Prior to Oct 1	ALT After Oct 1	Initial Mfg PLT	Reorder Mfg PLT	Total		
MN79	1 ENSIGN-BICKFORD, GRAHAM, KY	.1	.15	.3	3	2	6	6	8	K	
		.1	.15	.3	3	2	6	6	8	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
MN79	2008	MC1	0.59	0	0.59																									0
	2009	MC1	1.34	0	1.34																									1.34
	2010	MC1	1.86	0	1.86																									1.86

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
MN79	2008	MC1	0.59	0.59	0																									0
	2009	MC1	1.34	0	1.34																									0
	2010	MC1	1.86	0	1.86																									0

BLIN: 103000

Exhibit P-21  
Production Schedule

Exhibit P-40, Budget Item Justification	Date: MAY 2009
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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	FY 2008	FY 2009	FY 2010	FY 2010 OCO	FY 2010 TOTAL				
Proc Qty										
Gross Cost	A	98.662	85.384	57.291	104.824	162.115				

Description:

The Cartridge, 40mm, Green Star Parachute, M661 (DODIC B504) is designed for illumination and signaling with less weight and bulk and greater accuracy than comparable hand-held signals. This item is fired from 40mm M203 Grenade Launcher attached to the M16 series rifle.

The Cartridge, 40mm Red Star Parachute M662 (DODIC B505) is a fixed round 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 Red Smoke Ground Marker M713 (DODIC B506) is a fixed round of ammunition consisting of a projectile assembly and a cartridge case assembly. The projectile assembly contains a pyrotechnic smoke payload. This cartridge is fired from the M203 Grenade Launcher and is used to provide aerial identification and location of troops on the ground. Upon impact, the cartridge emits red colored smoke for approximately 25 seconds.

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.

Exhibit P-40, Budget Item Justification, Continued	Date: MAY 2009
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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	FY 2008	FY 2009	FY 2010	FY 2010 OCO	FY 2010 TOTAL				
Proc Qty										
Gross Cost	A	98.662	85.384	57.291	104.824	162.115				

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 MK19 Mod 3 Grenade Machine Gun and is a high explosive, dual-purpose cartridge. 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.

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-5, Cost Analysis			Weapon System			Date: MAY 2009						
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								
WBS COST ELEMENTS	FY08			FY09			FY10			FY10 OCO		
	Total Cost	Qty	Unit Cost	Total Cost	Qty	Unit Cost	Total Cost	Qty	Unit Cost	Total Cost	Qty	Unit Cost
HARDWARE												
B504, CTG, 40MM GREEN STAR PARACHUTE												
CTG, 40MM, ILLUM GRN STAR PARA, M661							0.784	12,569	62.45	0.123	1,979	62.45
B505, CTG, 40MM RED STAR PARACHUTE												
CTG, 40MM RED STAR PARACHUTE M662							1.549	24,806	62.45	0.091	1,472	62.45
B506, CTG, 40MM RED SMOKE GROUND												
LOAD, ASSEMBLE AND PACK							0.857	15,066	56.92	0.013	229	56.92
CASE CTG 40MM M118 LLD							0.112	15,518	7.27	0.001	236	7.27
NITROCELLULOSE WW GD D (LB)							0.001	38	5.21	0.001	1	5.21
DELAT ASSY							0.090	15,819	5.70	0.001	241	5.70
BOX METAL M2A1							0.003	343	11.10	0.001	5	11.10
B519, CTG, 40MM PRACTICE												
CTG 40MM PRACTICE M781	4.377	1,291,235	3.39	9.444	2,518,551	3.75	2.590	472,709	5.48	14.679	2,678,686	5.48
B535, CTG, 40MM WHITE STAR PARACHUTE												
CTG 40MM WHITE STAR PARA M583	12.460	288,909	43.13	2.682	56,928	47.12	4.181	83,405	50.13	0.388	7,749	50.13
B542, CTG, 40MM HEDP LINKED FOR MK19												
CTG, 40MM, HEDP, M430A1	30.897	996,704	31.00	55.476	1,457,222	38.07	19.324	511,895	37.75	22.868	605,780	37.75
B546, CTG, 40MM HEDP FOR M79/M203												
CTG 40MM HEDP M433	0.000	0	0.00	1.229	24,717	49.76	5.162	95,146	54.26	26.126	481,497	54.26
BA12, CTG, 40MM PRACTICE												
COMPLETE ROUND	49.435	1,813,463	27.26	14.436	468,854	30.79	20.805	756,000	27.52	39.392	1,431,427	27.52
PRODUCT												
PRODUCTION ENGINEERING	1.399			2.016			1.723			1.072		
QUALITY ASSURANCE	0.064			0.101			0.106			0.066		
NONRECURRING												
BARRELS	0.030			0.000			0.004			0.002		
TOTAL	98.662			85.384			57.291			104.824		

BLIN: 105000

Exhibit P-5a, Procurement History and Planning					Weapon System			Date:		
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	RFP Issue Date	Contract Method and Type	Contractor and Location	Award Date	Date of First Delivery	Tech Data Available Now?	Date Revisions Available
B504, CTG, 40MM GRN STAR PARA										
CTG 40MM PRACTICE M662										
FY 2010	14,548	62.45	JMC, ROCK ISLAND, IL	UNKNOWN	C/OTH	TBD	MAR 10	APR 11	YES	
B505, CTG, 40MM RED STAR PARA										
CTG 40MM PRACTICE M661										
FY 2010	26,278	62.45	JMC, ROCK ISLAND, IL	UNKNOWN	C/OTH	TBD	MAR 10	APR 11	YES	
B506, CTG, 40MM RED SMOKE										
CTG 40MM PRACTICE M661										
LOAD, ASSEMBLE, PACK										
FY 2010	15,295	56.92	JMC, ROCK ISLAND, IL	UNKNOWN	OTH/OTH	TBD	MAR 10	APR 11	YES	
CASE CTG 40MM M118 LDD										
FY 2010	15,754	7.27	JMC, ROCK ISLAND, IL	UNKNOWN	OTH/OTH	TBD	MAR 10	DEC 10	YES	
MITROCELLULOSE										
FY 2010	39	5.21	JMC, ROCK ISLAND, IL	UNKNOWN	OTH/OTH	TBD	MAR 10	DEC 10	YES	
DELAY ASSY										
FY 2010	16,060	5.7	JMC, ROCK ISLAND, IL	UNKNOWN	OTH/OTH	TBD	MAR 10	DEC 10	YES	
BOX METAL M2A1										
FY 2010	348	11.1	JMC, ROCK ISLAND, IL	UNKNOWN	C/FP	TBD	MAR 10	DEC 10	YES	
B519, CTG, 40MM PRACTICE										
CTG 40MM PRACTICE M713										
FY 2008	1,291,125	3.39	JMC, ROCK ISLAND, IL	OCT 05	C/OP	AMTECH CORP, JANESVILLE, WI	MAR 08	JAN 09	YES	
FY 2009	1,385,204	3.75	JMC, ROCK ISLAND, IL	OCT 05	C/OP	AMTECH CORP, JANESVILLE, WI	MAR 09	JAN 10	YES	
FY 2009	1,133,347	3.75	JMC, ROCK ISLAND, IL	OCT 05	C/OP	DSE, INC, TAMPA, FLA	MAR 09	JAN 10	YES	
FY 2010	3,151,395	5.48	JMC, ROCK ISLAND, IL	TBD	C/OTH	TBD	MAR 10	APR 11	YES	
B535, CTG, 40MM WHITE STAR PARACUTE										
CTG 40MM WHITE STAR PARA M583										
FY 2008	158,900	43.13	JMC, ROCK ISLAND, IL	OCT 05	C/OP	AMTECH CORP, JANESVILLE, WI	MAR 08	JAN 09	YES	
FY 2008	130,009	43.13	JMC, ROCK ISLAND, IL	OCT 05	C/OP	DSE, INC, TAMPA, FLA	MAR 08	JAN 09	YES	
FY 2009	31,311	47.12	JMC, ROCK ISLAND, IL	OCT 05	C/OP	AMTECH CORP, JANESVILLE, WI	MAR 09	JAN 10	YES	
FY 2009	25,617	47.12	JMC, ROCK ISLAND, IL	OCT 05	C/OP	DSE, INC, TAMPA, FLA	MAR 09	JAN 10	YES	
FY 2010	91,153	50.13	JMC, ROCK ISLAND, IL	TBD	C/OTH	TBD	MAR 10	APR 11	YES	

Exhibit P-5a

BLIN: 105000

Procurement History and Planning

Line Item No. 17

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Exhibit P-21, Production Schedule, Continued Date: MAY 2009

Appropriation Code/Budget Activity/Serial Number: Procurement of Ammunition, Navy and Marine Corps/2/Ammunition Weapon System P-1 Line Item Nomenclature: (105000) DODIC: B535, CTG, 40MM WHITE STAR PARACHUTE

Item	Manufacturer's Name and Location	PRODUCTION RATE			PROCUREMENT LEADTIMES						Unit of Measure
		MSR	ECON	MAX	ALT Prior to Oct 1	ALT After Oct 1	Initial Mfg PLT	Reorder Mfg PLT	Total		
B519	1 AMTECH CORP, JANESVILLE, WI	0	0.23	0.46	6	6	13	10	16	M	
	2 DSE, INC, TAMPA, FLA	0	0.23	0.46	6	6	13	10	16	M	
	3 TBD	0.23	0.23	0.46	6	6	13	10	18	M	

Fiscal Year 2012 Fiscal Year 2013

Item	Calendar Year 2012												Calendar Year 2013																	
	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
B519	2008	MC1	1.29	1.29	0.00																									0.00
	2009	MC1	1.39	1.39	0.00																									0.00
	2009	MC2	1.13	1.13	0.00																									0.00
	2010	MC3	3.15	1.56	1.59	0.26	0.26	0.26	0.26	0.26	0.29																		0.00	

Fiscal Year 2014 Fiscal Year 2015

Item	Calendar Year 2014												Calendar Year 2015																	
	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	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	L

REMARKS:

BLIN: 105000

Exhibit P-21  
Production Schedule

Exhibit P-21, Production Schedule Date:  
MAY 2009

Appropriation Code/Budget Activity/Serial Number: Weapon System  
 Procurement of Ammunition, Navy and Marine Corps/2/Ammunition P-1 Line Item Nomenclature:  
(105000) DODIC: B535, CTG, 40MM WHITE STAR PARACHUTE

Item	Manufacturer's Name and Location	PRODUCTION RATE			PROCUREMENT LEADTIMES						Unit of Measure
		MSR	ECON	MAX	ALT Prior to Oct 1	ALT After Oct 1	Initial Mfg PLT	Reorder Mfg PLT	Total		
B535	1 AMTECH CORP, JANESVILLE, WI	2	9	21	6	6	13	10	16	K	
	2 DSE, INC, TAMPA, FLA	2	9	21	6	6	13	10	16	K	
	3 TBD	2	9	24	6	6	13	10	16	K	

The Cartridge, 40mm Item	Fiscal Year 2008												Fiscal Year 2009																																				
	Calendar Year 2008												Calendar Year 2009																																				
	F	S	Q	D	B	O	N	D	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	B																								
B535	2008	MC1	159	0	159																				2009	MC1	31	0	31																				
	2008	MC2	130	0	130																				2009	MC2	26	0	26																				
	2010	MC3	91	0	91																				2010	MC3	91	0	91																				

Item	Fiscal Year 2010												Fiscal Year 2011																																			
	Calendar Year 2010												Calendar Year 2011																																			
	F	S	Q	E	B	O	N	D	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	B																							
B535	2008	MC1	159	117	42	13	13	16																2008	MC2	130	99	31	11	11	9																	
	2009	MC1	31	0	31				2	2	2	2	2	2	3	3	3	3	3	3	3	3	3	2009	MC2	26	0	26				2	2	2	2	2	2	2	2	3	3							
	2010	MC3	91	0	91																			2010	MC3	91	0	91														7	7	7	7	7	8	48

REMARKS:

BLIN: 105000

Exhibit P-21  
Production Schedule

Exhibit P-21, Production Schedule, Continued Date: MAY 2009

Appropriation Code/Budget Activity/Serial Number: Procurement of Ammunition, Navy and Marine Corps/2/Ammunition Weapon System P-1 Line Item Nomenclature: (105000) DODIC: B535, CTG, 40MM WHITE STAR PARACHUTE

Item	Manufacturer's Name and Location	PRODUCTION RATE			PROCUREMENT LEADTIMES					
		MSR	ECON	MAX	ALT Prior to Oct 1	ALT After Oct 1	Initial Mfg PLT	Reorder Mfg PLT	Total	Unit of Measure
B535	1 AMTECH CORP, JANESVILLE, WI	2	9	21	6	6	13	10	16	K
	2 DSE, INC, TAMPA, FLA	2	9	21	6	6	13	10	16	K
	3 TBD	2	9	24	6	6	13	10	16	K

Item	Fiscal Year 2012												Fiscal Year 2013																	
	Calendar Year 2012												Calendar Year 2013																	
	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
B535	2008	MC1	160	160	0																									0
	2008	MC2	130	130	0																									0
	2009	MC1	31	31	0																									0
	2009	MC2	26	26	0																									0
	2010	MC3	91	43	48	8	8	8	8	8	8																		0	

Item	Fiscal Year 2014												Fiscal Year 2015																	
	Calendar Year 2014												Calendar Year 2015																	
	F	S	Q	E	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	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	L

REMARKS:

BLIN: 105000

Exhibit P-21  
Production Schedule





Exhibit P-21, Production Schedule, Continued

Date:  
MAY 2009

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

Weapon System

P-1 Line Item Nomenclature:  
(105000) DODIC: B542, CTG, 40MM HEDP LINKED FOR MK19

Item	Manufacturer's Name and Location	PRODUCTION RATE			PROCUREMENT LEADTIMES						Unit of Measure
		MSR	ECON	MAX	ALT Prior to Oct 1	ALT After Oct 1	Initial Mfg PLT	Reorder Mfg PLT	Total		
B542	1 AMTECH CORP, JANESVILLE, WI	0.269	0.32	0.5	6	5	19	17	23	M	
	2 DSE, INC, TAMPA, FLA	0.269	0.32	0.5	6	5	19	17	23	M	
	3 TBD	0.269	0.32	0.5	6	5	19	17	23	M	

The Cartridge, 40mm Item	Fiscal Year 2012												Fiscal Year 2013																	
	Calendar Year 2012												Calendar Year 2013																	
	F	V	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
B542	2008	MC1	0.55	0.55	0.00																									0.00
	2008	MC2	0.45	0.45	0.00																									0.00
	2009	MC1	0.80	0.80	0.00																									0.00
	2009	MC2	0.66	0.66	0.00																									0.00
	2010	MC3	1.12	0.00	1.12	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.10	0.10	0.10	0.10													0.00

Item	Fiscal Year 2014												Fiscal Year 2015																	
	Calendar Year 2014												Calendar Year 2015																	
	F	V	Q	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

REMARKS: THIS DOES NOT REFLECT THE ARMY 'S BUYS WHICH MAKE UP THE CONTRACTOR'S 1-8-5 PRODUCTION RATES. CONTRACTOR'S PRODUCTION RATES ARE IN "MS".

BLIN: 105000

Exhibit P-21  
Production Schedule

Exhibit P-21, Production Schedule Date: MAY 2009

Appropriation Code/Budget Activity/Serial Number: Procurement of Ammunition, Navy and Marine Corps/2/Ammunition Weapon System P-1 Line Item Nomenclature: (105000) DODIC: B546, CTG, 40MM HEDP FOR M79/M203

Item	Manufacturer's Name and Location	PRODUCTION RATE			PROCUREMENT LEADTIMES					
		MSR	ECON	MAX	ALT Prior to Oct 1	ALT After Oct 1	Initial Mfg PLT	Reorder Mfg PLT	Total	Unit of Measure
B546	1 AMTECH CORP, JANESVILLE, WI	200	274	685	6	4	19	17	23	K
	2 DSE, INC, TAMPA, FLA	200	274	685	6	3	19	17	23	K
	3 TBD	200	274	685	6	5	19	17	23	K

Fiscal Year 2008 Fiscal Year 2009

The Cartridge, 40mm 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	
B546	2009	MC1	14	0	14																		A								14
	2009	MC2	11	0	11																	A									11
	2010	MC3	577	0	577																									577	

Fiscal Year 2010 Fiscal Year 2011

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
B546	2009	MC1	14	0	14																									0
	2009	MC2	11	0	11																									0
	2010	MC3	577	0	577							A																		577

REMARKS:

BLIN: 105000

Exhibit P-21  
Production Schedule







Exhibit P-40, Budget Item Justification	Date: MAY 2009
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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	FY 2008	FY 2009	FY 2010	FY 2010 OCO	FY 2010 TOTAL				
Proc Qty										
Gross Cost	A	122.695	64.911	22.037	43.623	65.660				

Description:

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 Illuminating M721 (DODIC B647) is an illumination round for use in the 60mm M224 Lightweight Company Mortar System. It is intended for use for illuminating a desired point or area.

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, Mortar, Anti-Personnel, Anti-Material (MAPAM) XM1061 (DODIC BA29), with M734A1 Fuze, 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.







Exhibit P-5a, Procurement History and Planning					Weapon System		Date:			
							MAY 2009			
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	RFP Issue Date	Contract Method and Type	Contractor and Location	Award Date	Date of First Delivery	Tech Data Available Now?	Date Revisions Available
<b>B643, CTG, 60MM HE</b>										
LOAD, ASSEMBLE & PACK (LAP)										
FY 2008	246,768	45.15	JMC, ROCK ISLAND, IL	UNKNOWN	C/FP	AMERICAN ORDNANCE, MILAN, TN	OCT 08	JUL 09	YES	
FY 2009	233,238	43.2	JMC, ROCK ISLAND, IL	UNKNOWN	C/OPTION	TBD	MAY 09	SEP 10	YES	
FY 2010	164,178	45.36	JMC, ROCK ISLAND, IL	UNKNOWN	C/OPTION	TBD	DEC 09	SEP 11	YES	
M720 PROJ MPTS										
FY 2008	256,639	33.29	PICATINNY ARSENAL, NJ	UNKNOWN	C/OPTION	MEDICO IND., WILKES-BARRE, PA	JUL 08	MAY 09	YES	
FY 2009	242,568	34.07	PICATINNY ARSENAL, NJ	UNKNOWN	C/OPTION	MEDICO IND., WILKES-BARRE, PA	MAR 09	JUL 10	YES	
FY 2010	170,755	34.64	PICATINNY ARSENAL, NJ	UNKNOWN	C/OPTION	TBD	MAR 10	JUL 11	YES	
COMP B TYPE I GRADE A(LB)										
FY 2008	493,536	2.47	JMC, ROCK ISLAND, IL	UNKNOWN	N/A	STOCK ISSUE	N/A	N/A	YES	
FY 2009	466,476	2.31	JMC, ROCK ISLAND, IL	UNKNOWN	N/A	STOCK ISSUE	N/A	N/A	YES	
FY 2010	279,188	13.77	JMC, ROCK ISLAND, IL	UNKNOWN	C/FP	TBD	MAR 10	JUL 11	YES	
M27 FIN ASSEMBLY										
FY 2008	256,639	6.01	JMC, ROCK ISLAND, IL	UNKNOWN	C/OPTION	WILKINGSON MFG, FT CALHOUN, NE	DEC 08	FEB 09	YES	
FY 2009	242,568	6.44	JMC, ROCK ISLAND, IL	UNKNOWN	C/OPTION	WILKINGSON MFG, FT CALHOUN, NE	FEB 09	JUL 10	YES	
FY 2010	170,755	6.19	JMC, ROCK ISLAND, IL	UNKNOWN	C/OPTION	TBD	FEB 10	JUL 11	YES	
M702 IGNITION CARTRIDGE										
FY 2008	256,639	15.15	JMC, ROCK ISLAND, IL	UNKNOWN	C/OPTION	POCAL IND. SCRANTON, PA	MAY 08	MAY 09	YES	
FY 2009	242,568	16.56	JMC, ROCK ISLAND, IL	UNKNOWN	C/OPTION	POCAL IND. SCRANTON, PA	MAY 09	OCT 09	YES	
FY 2010	170,755	17.12	JMC, ROCK ISLAND, IL	UNKNOWN	C/OPTION	TBD	MAY 10	JUL 11	YES	
CHARGE, PROPELLING M204										
FY 2008	1,006,814	2.97	JMC, ROCK ISLAND, IL	UNKNOWN	C/OPTION	AMERICAN ORDNANCE, MILAN, TN	AUG 08	JAN 09	YES	
FY 2009	951,612	2.99	JMC, ROCK ISLAND, IL	UNKNOWN	C/OPTION	TBD	JUN 09	DEC 09	YES	
FY 2010	669,883	11.39	JMC, ROCK ISLAND, IL	UNKNOWN	C/OPTION	TBD	MAY 10	DEC 10	YES	
CONTAINER ASSY M204 (EA)										
FY 2008	1,024,088	4.86	JMC, ROCK ISLAND, IL	UNKNOWN	C/OPTION	ARMTEC, COACHELLA, CA	AUG 08	NOV 08	YES	
FY 2009	974,935	6.93	JMC, ROCK ISLAND, IL	UNKNOWN	C/FP	TBD	AUG 09	NOV 09	YES	
M935 FUZE										
FY 2008	254,172	52.33	JMC, ROCK ISLAND, IL	UNKNOWN	C/OPTION	L-3 COMM, CAMDEN, NJ	MAY 08	NOV 08	YES	
FY 2009	240,236	54.65	JMC, ROCK ISLAND, IL	UNKNOWN	C/OPTION	L-3 COMM, CAMDEN, NJ	MAR 09	JUL 10	YES	
FY 2010	169,113	53.82	JMC, ROCK ISLAND, IL	UNKNOWN	C/OPTION	TBD	MAR 10	JUL 11	YES	
COMP A-5 CLASS 1(LB)										
FY 2008	7,404	3.21	JMC, ROCK ISLAND, IL	UNKNOWN	N/A	STOCK ISSUE	N/A	N/A	YES	
FY 2009	6,998	3.12	JMC, ROCK ISLAND, IL	UNKNOWN	N/A	STOCK ISSUE	N/A	N/A	YES	
FY 2010	4,926	3.21	JMC, ROCK ISLAND, IL	UNKNOWN	N/A	STOCK ISSUE	N/A	N/A	YES	

Exhibit P-5a, Procurement History and Planning				Weapon System			Date: MAY 2009			
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	RFP Issue Date	Contract Method and Type	Contractor and Location	Award Date	Date of First Delivery	Tech Data Available Now?	Date Revisions Available
B647, CTG, 60MM ILLUM M721 LOAD, ASSEMBLE & PACK (LAP)										
FY 2008	22,499	93.05	JMC, ROCK ISLAND, IL	UNKNOWN	SS/OPTION	PINE BLUFF ARSENAL, ARKANSAS	MAR 08	MAR 10	YES	
FUZE MTSQ, M776										
FY 2008	23,399	182.14	PICATINNY ARSENAL, NJ	UNKNOWN	SS/OPTION	JUNGHANS AG, SCRAMBERG, GE	JUN 08	MAR 09	YES	
BODY TUBE AND TAIL CONE, 60MM										
FY 2008	23,399	27.27	PICATINNY ARSENAL, NJ	UNKNOWN	SS/OPTION	LEWIS ENGINEERING, MARSHALL, T	MAR 08	SEP 09	YES	
M702 IGNITION CARTRIDGE										
FY 2008	23,399	15.19	JMC, ROCK ISLAND, IL	UNKNOWN	SS/OPTION	POCAL IND. SCRANTON, PA	JUN 08	MAR 09	YES	
CHARGE, PROPELLING M204										
FY 2008	92,696	5.80	JMC, ROCK ISLAND, IL	UNKNOWN	SS/OPTION	AMERICAN ORDNANCE, MILAN, TN	MAR 08	DEC 09	YES	
M27 FIN ASSEMBLY										
FY 2008	23,399	5.46	PICATINNY ARSENAL, NJ	UNKNOWN	SS/OPTION	WILKINGSON MFG, FT CALHOUN, NE	MAR 08	DEC 09	YES	
VL ILLUM CANNISTER, 60MM										
FY 2008	23,399	89.97	PICATINNY ARSENAL, NJ	UNKNOWN	SS/OPTION	CRANE AAP, CRANE, IN	MAY08	FEB 09	YES	
PARACHUTE, 60MM										
FY 2008	23,399	22.98	JMC, ROCK ISLAND, IL	UNKNOWN	SS/OPTION	NAA, ROXBORO, NC	MAR 08	DEC 09	YES	
FIBER TUBE PA 175										
FY 2008	23,399	2.69	JMC, ROCK ISLAND, IL	UNKNOWN	C/FP	UNITED AMMO CNTR, WYNNEWOOD, E	JUN 08	MAR 09	YES	
OVERPACK CONTAINER										
PA 124	2,925	52.46	PICATINNY ARSENAL, NJ	UNKNOWN	C/FP	BWAY, ATLANTA, GA	JUN 08	MAR 09	YES	

Exhibit P-5a

BLIN: 108300

Procurement History and Planning



Exhibit P-5a, Procurement History and Planning Continued					Weapon System		Date: MAY 2009			
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	RFP Issue Date	Contract Method and Type	Contractor and Location	Award Date	Date of First Delivery	Tech Data Available Now?	Date Revisions Available
BA29, CTG, 60MM MAPAM										
LAP, CTG, 60MM, M1061										
FY 2009	4,035	65.66	PICATINNY ARSENAL, NJ	UNKNOWN	SS/OP	PINE BLUFF ARSENAL, AR	MAR 09	SEP 10	YES	
FY 2010	2,300	56.10	PICATINNY ARSENAL, NJ	UNKNOWN	SS/OP	PINE BLUFF ARSENAL, AR	MAR 10	SEP 11	YES	
FUZE, MO, M734A1										
FY 2009	4,196	216.75	PICATINNY ARSENAL, NJ	UNKNOWN	C/FP	TBD	MAR 09	SEP 10	YES	
FY 2010	2,392	214.20	PICATINNY ARSENAL, NJ	UNKNOWN	SS/OP	TBD	MAR 10	SEP 11	YES	
WARHEAD ASSEMBLY										
FY 2009	4,438	362.33	PICATINNY ARSENAL, NJ	UNKNOWN	SS/OP	SAAB SWITZERLAND	JAN 09	DEC 10	YES	
FY 2010	2,530	369.58	PICATINNY ARSENAL, NJ	UNKNOWN	SS/OP	SAAB SWITZERLAND	MAR 10	SEP 11	YES	
IGNITION CTG, 60MM, M702										
FY 2009	4,196	16.30	PICATINNY ARSENAL, NJ	UNKNOWN	SS/OP	POCAL IND. SCRANTON, PA	MAR 09	SEP 10	YES	
FY 2010	2,392	17.12	PICATINNY ARSENAL, NJ	UNKNOWN	SS/OP	POCAL IND. SCRANTON, PA	MAR 10	SEP 11	YES	
PROPELLENT CHARGE, 60MM, M235										
FY 2009	16,624	8.30	PICATINNY ARSENAL, NJ	UNKNOWN	C/FP	TBD	JUN 09	DEC 10	YES	
FY 2010	9,476	4.42	PICATINNY ARSENAL, NJ	UNKNOWN	SS/OP	TBD	MAR 10	SEP 11	YES	
FIN ASSEMBLY M27										
FY 2009	4,196	6.07	PICATINNY ARSENAL, NJ	UNKNOWN	SS/OP	WILKINGSON MFG, FT CALHOUN,	MAR 09	SEP 10	YES	
FY 2010	2,392	6.07	PICATINNY ARSENAL, NJ	UNKNOWN	SS/OP	WILKINGSON MFG, FT CALHOUN,	MAR 10	SEP 11	YES	

BLIN: 108300

Exhibit P-5a  
Procurement History and Planning







Exhibit P-21, Production Schedule Date: MAY 2009

Appropriation Code/Budget Activity/Serial Number: Procurement of Ammunition, Navy and Marine Corps/2/Ammunition Weapon System P-1 Line Item Nomenclature: (108300) DODIC: BA16, CTG, 60MM HE WITH MOF

Item	Manufacturer's Name and Location	PRODUCTION RATE			PROCUREMENT LEADTIMES					
		MSR	ECON	MAX	ALT Prior to Oct 1	ALT After Oct 1	Initial Mfg PLT	Reorder Mfg PLT	Total	Unit of Measure
BA16	1 CANADIAN COMMERCIAL, ONTARIO, CN	5	22	55	6	6	18	18	24	K
	2 TO BE DETERMINED	5	22	55	6	6	18	18	24	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
BA16	2008	MC1	164	0	164									A																164
	2009	MC1	27	0	27																		A							27
	2010	MC2	55	0	55																									55

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	
BA16	2008	MC1	164	0	164									13	13	13	13	14	14	14	14	14	14	14	14					0	
	2009	MC1	27	0	27												2	2	2	2	2	2	2	2	2	2	3	3	3		0
	2010	MC2	55	0	55							A																	4	51	

REMARKS: THIS DOES NOT REFLECT THE ARMY 'S BUYS WHICH MAKE UP THE CONTRACTOR'S 1-8-5 PRODUCTION RATES. CONTRACTOR'S PRODUCTION RATES ARE IN "000S".

BLIN: 108300

Exhibit P-21  
Production Schedule





Exhibit P-40, Budget Item Justification	Date: MAY 2009
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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	FY 2008	FY 2009	FY 2010	FY 2010 OCO	FY 2010 TOTAL				
Proc Qty										
Gross Cost	A	167.621	96.992	54.869	103.647	158.516				

Description:

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 81mm IMC is 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/M821A2 (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.

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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			Weapon System			Date: MAY 2009						
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								
	FY08			FY09			FY10			FY10 OCO		
	Total Cost	Qty	Unit Cost	Total Cost	Qty	Unit Cost	Total Cost	Qty	Unit Cost	Total Cost	Qty	Unit Cost
WBS COST ELEMENTS												
HARDWARE												
C484, CTG, 81MM ILLUM INFRARED												
LOAD, ASSEMBLE & PACK (LAP)	4.436	38,244	116.00									
PROPELLANT CHARGE M219	2.246	159,095	14.12									
IGNITION CARTRIDGE M752	0.726	39,774	18.25									
FIN ASSEMBLY M29	0.735	39,774	18.49									
FUZE MTSQ M772	7.853	39,774	197.44									
INFRARED ILLUMINANT CANISTER	4.450	39,774	111.89									
BODY TUBE	1.102	39,774	27.71									
TAIL CONE, 81MM	0.579	39,774	14.55									
FIBER CONTAINER PA 162	0.168	39,774	4.22									
OVERPACK CONTAINER PA157	0.848	24,267	34.96									
PARACHUTE ASSEMBLY	0.900	39,774	22.62									
SPLIT SLEEVES	0.139	76,488	1.82									
DROGUE PLATES	0.082	39,774	2.05									
C868, CTG, 81MM HE W//M734A1 MOF												
LAP, CTG, 81MM, M821A2	11.447	93,400	122.56	9.746	133,500	73.00				6.444	99,400	64.83
FUZE, MO, M734A1	19.062	97,136	196.24	35.404	138,840	255.00				22.143	103,376	214.20
SHELL BODY, 81MM, M821A2	4.969	97,136	51.15	7.497	138,840	54.00				5.671	103,376	54.86
IGNITION CARTRIDGE M752	1.625	97,136	16.73	2.360	138,840	17.00				1.829	103,376	17.69
PROPELLENT CHARGE	5.453	384,808	14.17	5.500	550,020	10.00				5.013	409,528	12.24
FIN ASSEMBLY	3.790	97,136	39.02	2.777	138,840	20.00				2.111	103,376	20.42
COMP B	0.647	280,200	2.31	0.925	400,500	2.31				4.106	298,200	13.77
C869, CTG, 81MM HE WITH PD FUZE												
LOAD, ASSEMBLE & PACK (LAP)	10.060	187,190	53.74	7.251	116,498	62.24	8.226	128,738	63.90	9.351	146,342	63.90
M889 PROJ MPTS	9.958	194,678	51.15	6.578	121,158	54.29	7.345	133,888	54.86	8.349	152,196	54.86
M935 FUZE	10.090	192,806	52.33	6.558	119,993	54.65	7.137	132,600	53.82	8.112	150,733	53.82
IGN CTG M299	3.117	194,678	16.01	1.960	121,158	16.18	2.368	133,888	17.69	2.692	152,196	17.69
PROP CHG M220	5.434	767,479	7.08	4.490	477,642	9.40	6.461	527,824	12.24	7.344	600,004	12.24
M24 FIN	2.395	194,678	12.30	2.426	121,158	20.02	2.734	133,888	20.42	3.108	152,196	20.42
COMP B TYPE I GRADE A(LB)	1.503	608,368	2.47	0.875	378,619	2.31	5.762	418,440	13.77	6.550	475,661	13.77
COMP A-5 CLASS 1(LB)	0.019	5,860	3.21	0.011	3,647	3.12	0.013	4,030	3.21	0.015	4,581	3.21
SUB-TOTAL	113.833			94.358			40.046			92.838		

Exhibit P-5  
Cost Analysis

BLIN: 109100

Exhibit P-5, Cost Analysis Continued			Weapon System			Date: MAY 2009						
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							
	FY08			FY09			FY10			FY10 OCO		
	Total Cost	Qty	Unit Cost	Total Cost	Qty	Unit Cost	Total Cost	Qty	Unit Cost	Total Cost	Qty	Unit Cost
WBS COST ELEMENTS												
C870, CTG, 81MM SMOKE RP												
LAP, CTG, 81MM, M819	14.000	70,000	200.00				2.644	12,352	214.04	0.781	3,648	214.04
PROP CHG M218	2.763	291,200	9.49				0.522	51,385	10.16	0.154	15,175	10.16
IGN CTG M752 (EA)	1.306	72,800	17.94				0.247	12,847	19.20	0.073	3,793	19.20
FIN ASSEMBLY M29	1.262	72,800	17.34				0.238	12,847	18.56	0.070	3,793	18.56
FUZE M772 (EA)	14.374	72,800	197.44				2.715	12,847	211.30	0.801	3,793	211.30
RED PHOSPHORUS FILL	2.100	210,000	10.00				0.396	37,056	10.70	0.117	10,944	10.70
BODY TUBE	2.634	72,800	36.18				0.497	12,847	38.72	0.147	3,793	38.72
TAIL CONE	1.766	72,800	24.26				0.334	12,847	25.96	0.098	3,793	25.96
FIBER CONTAINER, PA162	0.307	72,800	4.22				0.058	12,847	4.52	0.017	3,793	4.52
OVERPACK CONTAINERS, PA157	0.848	24,267	34.96				0.160	4,283	37.41	0.047	1,264	37.41
GAMS	2.161	145,600	14.84				0.408	25,693	15.88	0.120	7,587	15.88
C871, CTG, 81MM ILLUM												
LOAD, ASSEMBLE & PACK (LAP)							0.736	4,990	147.58	0.814	5,515	147.58
PROPELLANT CHARGE M219							0.258	20,709	12.45	0.285	22,887	12.45
CONTAINER ASSEMBLY M205												
IGNITION CARTRIDGE M752							0.101	5,190	19.47	0.112	5,736	19.47
M9 FLAKE .010 (LB)							0.010	117	85.37	0.011	128	85.37
FUZE MTSQ M772							1.061	5,190	204.48	1.173	5,736	204.48
M29 FIN F/81MM							0.132	5,190	25.50	0.146	5,736	25.50
ILLUMINANT CANISTER							0.766	5,190	147.58	0.847	5,736	147.58
PARACHUTE ASSEMBLY							0.154	5,190	29.65	0.170	5,736	29.65
BODY TUBES							0.143	5,190	27.46	0.158	5,736	27.46
TAIL CONES							0.080	5,505	14.53	0.088	6,084	14.53
FIBER CONTAINER							0.023	5,190	4.49	0.026	5,736	4.49
METAL CONTAINER PA157							0.062	1,729	35.66	0.068	1,911	35.66
SPLIT SLEEVE							0.023	10,380	2.17	0.025	11,471	2.17
DROGUE PLATE							0.010	5,190	1.96	0.011	5,736	1.96
PRODUCT												
ACCEPTANCE TESTING	7.594			1.745			0.883			3.906		
PRODUCTION ENGINEERING	3.789			1.396			1.195			0.447		
QUALITY ASSURANCE	0.737			0.296			0.536			0.013		
NONRECURRING	0.592			0.063			0.610			0.158		
GOVERNMENT FURNISHED MATERIAL	-2.445			-0.866			-0.179			-0.074		
SUB-TOTAL	53.788			2.634			14.823			10.809		
TOTAL	167.621			96.992			54.869			103.647		

BLIN: 109100

Exhibit P-5  
Cost Analysis

Exhibit P-5a, Procurement History and Planning				Weapon System			Date: MAY 2009			
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	RFP Issue Date	Contract Method and Type	Contractor and Location	Award Date	Date of First Delivery	Tech Data Available Now?	Date Revisions Available
C484, CTG, 81MM ILLUM INFRARED										
LOAD, ASSEMBLE & PACK (LAP)										
FY 2008	38,244	116.00	JMC, ROCK ISLAND, IL	UNKNOWN	SS/OP	PINE BLUFF ARSENAL, PINE BLUFF, AR	APR 08	JAN 10	YES	
PROPELLANT CHARGE M219										
FY 2008	159,095	14.12	JMC, ROCK ISLAND, IL	OCT 07	C/FP	GENERAL DYNAMICS MARION, GA	APR 08	AUG 08	YES	
IGNITION CARTRIDGE M752										
FY 2008	39,774	18.25	JMC, ROCK ISLAND, IL	OCT 07	C/FP	TBD	JUL 09	NOV 09	YES	
FIN ASSEMBLY M29										
FY 2008	39,774	18.49	JMC, ROCK ISLAND, IL	OCT 07	SS/OP	WILKINSON	MAR 08	MAY 09	YES	
FUZE MTSQ M772										
FY 2008	39,774	197.44	JMC, ROCK ISLAND, IL	OCT 07	SS/OP	JUNGHAMS, SCHRAMBERG, GERMANY	FEB 08	JUL 09	YES	
INFRARED ILLUMINANT CANISTER										
FY 2008	39,774	111.89	JMC, ROCK ISLAND, IL	OCT 07	SS/OP	CRANE AAP, CRANE, IN	FEB 08	NOV 09	YES	
BODY TUBE										
FY 2008	39,774	27.71	JMC, ROCK ISLAND, IL	UNKNOWN	SS/OP	LEWIS ENGINEERING, MARSHALL, TX	MAR 08	JAN 09	YES	
TAIL CONE										
FY 2008	39,774	14.55	JMC, ROCK ISLAND, IL	UNKNOWN	SS/OP	LEWIS ENGINEERING, MARSHALL, TX	MAR 08	MAR 09	YES	
FIBER CONTAINER PA 162										
FY 2008	39,774	4.22	JMC, ROCK ISLAND, IL	OCT 07	SS/OP	UNITED AMMO CONTAINER, MILAN, TN	FEB 08	SEP 08	YES	
OVERPACK CONTAINER PA157										
FY 2008	24,267	34.96	JMC, ROCK ISLAND, IL	OCT 07	SS/OP	BROCKWAY STANDARD, ATLANTA, GA	FEB 08	MAY 08	YES	
PARACHUTE ASSEMBLY										
FY 2008	39,774	22.62	JMC, ROCK ISLAND, IL	SEP 07	SS/OP	NORTH AMERICAN AERODYNAMICS, NC	JAN 08	MAR 08	YES	
SPLIT SLEEVES										
FY 2008	76,488	1.82	JMC, ROCK ISLAND, IL	SEP 07	SS/OP	TBD	MAR 08	MAY 09	YES	
DROGUE PLATES										
FY 2008	39,774	2.05	JMC, ROCK ISLAND, IL	OCT 07	SS/OP	TBD	MAR 08	MAY 09	YES	
C868, CTG, 81MM HE W//M734A1 MO										
LAP, CTG, 81MM, M821A2										
FY 2008	93,400	122.56	JMC, ROCK ISLAND, IL	JAN 07	SS/OP	GDOTS, CANADA, ONTARIO	JUN 08	JUN 10	YES	
FY 2009	133,500	73.00	JMC, ROCK ISLAND, IL	JAN 07	SS/OP	GDOTS, CANADA, ONTARIO	MAR 09	MAR 11	YES	
FY 2010	99,400	64.83	JMC, ROCK ISLAND, IL	JAN 07	C/FP	TBD	MAR 10	MAR 12	YES	
FUZE, MO, M734A1										
FY 2008	97,136	196.24	JMC, ROCK ISLAND, IL	JAN 07	SS/OP	L3-KDI PRECISION, CINCINNATI, OH	FEB 08	NOV 09	YES	
FY 2009	138,840	255.00	JMC, ROCK ISLAND, IL	JAN 07	C/FP	TBD	JUN 09	SEP 10	YES	
FY 2010	103,376	214.20	JMC, ROCK ISLAND, IL	JAN 07	SS/OP	TBD	MAR 10	SEP 11	YES	
SHELL BODY, 81MM, M821A2										
FY 2008	97,136	51.15	JMC, ROCK ISLAND, IL	JAN 07	SS/OP	MEDICO INDUSTRIES, WILKES-BARRE, PA	JUN 08	MAR 09	YES	
FY 2009	138,840	54.00	JMC, ROCK ISLAND, IL	JAN 07	SS/OP	MEDICO INDUSTRIES, WILKES-BARRE, PA	MAR 09	SEP 10	YES	
FY 2010	103,376	54.86	JMC, ROCK ISLAND, IL	JAN 07	SS/OP	MEDICO INDUSTRIES, WILKES-BARRE, PA	MAR 10	SEP 11	YES	

Exhibit P-5a

BLIN: 109100

Procurement History and Planning

Exhibit P-5a, Procurement History and Planning Continued					Weapon System			Date: MAY 2009			
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	RFP Issue Date	Contract Method and Type	Contractor and Location	Award Date	Date of First Delivery	Tech Data Available Now?	Date Revisions Available	
IGNITION CARTRIDGE M752											
FY 2008	97,136	16.73	JMC, ROCK ISLAND, IL	JAN 07	SS/OP	POCAL IND, MOSCOW, PA	MAY 08	FEB 09	YES		
FY 2009	138,840	17.00	JMC, ROCK ISLAND, IL	JAN 07	SS/OP	POCAL IND, MOSCOW, PA	MAY 09	SEP 09	YES		
FY 2010	103,376	17.69	JMC, ROCK ISLAND, IL	JAN 07	SS/OP	POCAL IND, MOSCOW, PA	MAY 09	SEP 09	YES		
PROPELLENT CHARGE											
FY 2008	384,808	14.17	JMC, ROCK ISLAND, IL	JAN 07	SS/OP	GD-OTS, MARION, IL	DEC 07	JUN 08	YES		
FY 2009	550,020	10.00	JMC, ROCK ISLAND, IL	JAN 07	SS/OP	TBD	JUN 09	DEC 10	YES		
FY 2010	409,528	12.24	JMC, ROCK ISLAND, IL	JAN 07	SS/OP	TBD	MAR 10	SEP 11	YES		
FIN ASSEMBLY											
FY 2008	97,136	39.02	JMC, ROCK ISLAND, IL	JAN 07	SS/OP	GAYSTON, SPRINGBORO OH	JUL 08	APR 09	YES		
FY 2009	138,840	20.00	JMC, ROCK ISLAND, IL	JAN 07	SS/OP	TBD	MAR 09	SEP 10	YES		
FY 2010	103,376	20.42	JMC, ROCK ISLAND, IL	JAN 07	SS/OP	TBD	MAR 10	SEP 11	YES		
COMP B											
FY 2008	280,200	2.31	JMC, ROCK ISLAND, IL	JAN 07	SS/OP	STOCK ISSUE	N/A	N/A	YES		
FY 2009	400,500	2.31	JMC, ROCK ISLAND, IL	JAN 07	SS/OP	STOCK ISSUE	N/A	N/A	YES		
FY 2010	298,200	13.77	JMC, ROCK ISLAND, IL	JAN 07	SS/OP	BAE, HOLSTON, TN	DEC 10	MAY 11	YES		
C869, CTG, 81MM HE WITH PD FUZE											
LOAD, ASSEMBLE & PACK (LAP)											
FY 2008	187,890	53.74	JMC, ROCK ISLAND, IL	JUL 06	C/OP	CANADIAN COMMERCIAL CORP, ONTARIO	APR 09	DEC 09	YES		
FY 2009	116,498	62.24	JMC, ROCK ISLAND, IL	JUL 06	C/FP	CANADIAN COMMERCIAL CORP, ONTARIO	APR 09	DEC 10	YES		
FY 2010	275,080	63.90	JMC, ROCK ISLAND, IL	JUL 06	C/OP	TO BE SELECTED	MAR 10	DEC 11	YES		
M889 PROJ MPTS											
FY 2008	194,678	51.15	JMC, ROCK ISLAND, IL	JUL 06	C/OP	MEDICO INDUSTRIES, WILKES-BARRE, P	JUL 08	OCT 09	YES		
FY 2009	121,158	54.29	JMC, ROCK ISLAND, IL	JUL 06	C/OP	MEDICO INDUSTRIES, WILKES-BARRE, P	MAR 09	OCT 10	YES		
FY 2010	286,084	54.86	JMC, ROCK ISLAND, IL	JUL 06	C/FP	TBD	MAR 10	OCT 11	YES		
M935 FUZE											
FY 2008	192,806	52.33	JMC, ROCK ISLAND, IL	JUL 06	C/OP	L3-KDI, CAMDEN, NJ	MAY 08	AUG 09	YES		
FY 2009	119,993	54.65	JMC, ROCK ISLAND, IL	JUL 06	C/FP	L3-KDI, CAMDEN, NJ	MAR 09	AUG 10	YES		
FY 2010	283,333	53.82	JMC, ROCK ISLAND, IL	JUL 06	C/FP	TBD	DEC 09	AUG 11	YES		
IGN CTG M299											
FY 2008	194,678	16.01	JMC, ROCK ISLAND, IL	JUL 06	C/OP	POCAL INDUSTRIES, MOSCOW, PA	MAY 08	JUL 09	YES		
FY 2009	121,158	16.18	JMC, ROCK ISLAND, IL	JUL 06	C/OP	TBD	MAY 09	SEP 10	YES		
FY 2010	286,084	17.69	JMC, ROCK ISLAND, IL	JUL 06	C/FP	TBD	MAY 10	SEP 11	YES		
PROP CHG M220											
FY 2008	767,479	7.08	JMC, ROCK ISLAND, IL	JUL 06	C/OP	GD-OTS, MARION, IL, MARION, IL	MAR 08	OCT 09	YES		
FY 2009	477,642	9.40	JMC, ROCK ISLAND, IL	JUL 06	C/FP	TBD	JUN 09	SEP 10	YES		
FY 2010	1,127,828	12.24	JMC, ROCK ISLAND, IL	JUL 06	C/OP	TBD	JUN 10	SEP 11	YES		

Exhibit P-5a

BLIN: 109100

Procurement History and Planning

Exhibit P-5a, Procurement History and Planning Continued	Weapon System	Date: MAY 2009
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Appropriation Code/Budget Activity/Serial Number: Procurement of Ammunition, Navy and Marine Corps/2/Ammunition	P-1 Line Item Nomenclature: (109100) 81MM, ALL TYPES
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WBS COST ELEMENTS	Qty	Unit Cost	Location of PCO	RFP Issue Date	Contract Method and Type	Contractor and Location	Award Date	Date of First Delivery	Tech Data Available Now?	Date Revisions Available
M24 FIN										
FY 2008	194,678	12.30	JMC, ROCK ISLAND, IL	JUN 06	C/FP	GAYSTON CORP, SPRINGBORO, OH	NOV 08	SEP 09	YES	
FY 2009	121,158	20.02	JMC, ROCK ISLAND, IL	JUN 06	C/FP	TBD	MAY 09	SEP 10	YES	
FY 2010	286,084	20.42	JMC, ROCK ISLAND, IL	JUN 06	C/FP	TBD	MAY 10	SEP 11	YES	
COMP B TYPE I GRADE A(LB)										
FY 2008	608,368	2.47	JMC, ROCK ISLAND, IL	JUL 06	N/A	STOCK ISSUE	N/A	N/A	YES	
FY 2009	378,619	2.31	JMC, ROCK ISLAND, IL	JUL 06	N/A	STOCK ISSUE	N/A	N/A	YES	
FY 2010	894,101	13.77	JMC, ROCK ISLAND, IL	JUL 06	C/FP	STOCK ISSUE	MAR 10	JUN 11	YES	
*COMP A-5 CLASS 1(LB)										
FY 2008	5,860	3.21	JMC, ROCK ISLAND, IL	UNKNOWN	N/A	STOCK ISSUE	N/A	N/A	YES	
FY 2009	3,647	3.12	JMC, ROCK ISLAND, IL	UNKNOWN	N/A	STOCK ISSUE	N/A	N/A	YES	
FY 2010	8,611	3.21	JMC, ROCK ISLAND, IL	UNKNOWN	N/A	TBD	N/A	N/A	YES	
C870, CTG, 81MM SMOKE RP										
LAP, CTG, 81MM, M819										
FY 2008	70,000	200.00	JMC, ROCK ISLAND, IL	JAN 06	SS/FP	PINE BLUFF ARSENAL, PINE BLUFF, AR	APR 09	MAY 10	YES	
FY 2010	16,000	214.04	JMC, ROCK ISLAND, IL	JAN 06	SS/FP	PINE BLUFF ARSENAL, PINE BLUFF, AR	DEC 09	SEP 11	YES	
PROP CHG M219										
FY 2008	291,200	9.49	JMC, ROCK ISLAND, IL	JAN 06	C/OP	GD-OTS, MARION, IL	APR 08	AUG 08	YES	
FY 2010	66,560	10.16	JMC, ROCK ISLAND, IL	JAN 06	C/OP	TBD	MAR 10	JUL 11	YES	
IGN CTG M752(EA)										
FY 2008	72,800	17.94	JMC, ROCK ISLAND, IL	JAN 06	C/OP	TBD	JUL 09	SEC 09	YES	
FY 2010	16,640	19.20	JMC, ROCK ISLAND, IL	JAN 06	C/OP	TBD	MAR 10	JUL 11	YES	
FIN ASSEMBLY M29										
FY 2008	72,800	17.34	JMC, ROCK ISLAND, IL	JAN 06	C/OP	WILKINSON	MAR 08	MAY 09	YES	
FY 2010	16,640	18.56	PICATINNY ARSENAL, NJ	JAN 06	C/OP	TBD	MAR 10	JUL 11	YES	
FUZE M772(EA)										
FY 2008	72,800	197.44	JMC, ROCK ISLAND, IL	JAN 06	C/OP	NAMSA	FEB 09	JUL 09	YES	
FY 2010	16,640	211.30	JMC, ROCK ISLAND, IL	JAN 06	C/FP	TBD	MAR 10	JUL 11	YES	
RED PHOSPHORUS FILL										
FY 2008	210,000	10.00	JMC, ROCK ISLAND, IL	UNKNOWN	C/OP	NAMSA	FEB 08	JUL 09		
FY 2010	48,000	10.70	JMC, ROCK ISLAND, IL	UNKNOWN	C/OP	TBD	MAR 10	JUL 11		
BODY TUBE										
FY 2008	72,800	36.18	JMC, ROCK ISLAND, IL	JAN 06	C/FP	TBD	MAY 09	DEC 09	YES	
FY 2010	16,640	38.72	JMC, ROCK ISLAND, IL	JAN 06	C/OP	TBD	MAR 10	JUL 11	YES	
TAIL CONE										
FY 2008	72,800	24.26	JMC, ROCK ISLAND, IL	JAN 06	C/FP	TBD	MAY 09	DEC 09	YES	
FY 2010	16,640	25.96	JMC, ROCK ISLAND, IL	JAN 06	C/OP	TBD	MAR 10	JUL 11	YES	
FIBER CONTAINER, PA162										
FY 2008	72,800	4.22	JMC, ROCK ISLAND, IL	JAN 06	C/OP	UAC	FEB 08	SEP 08	YES	
FY 2010	16,640	4.52	JMC, ROCK ISLAND, IL	JAN 06	C/OP	TBD	MAR 10	SEP 10	YES	
OVERPACK CONTAINERS, PA157										
FY 2008	24,267	34.96	JMC, ROCK ISLAND, IL	JAN 06	C/OP	BWAY	FEB 08	MAY 08	YES	
FY 2010	5,547	37.41	JMC, ROCK ISLAND, IL	JAN 06	C/OP	TBD	MAR 10	JUL 10	YES	
GAMS										
FY 2008	145,600	14.84	JMC, ROCK ISLAND, IL	JAN 06	C/OP	DESIGN WEST	AUG 08	FEB 09	YES	
FY 2010	33,280	15.88	JMC, ROCK ISLAND, IL	JAN 06	C/OP	TBD	MAR 10	OCT 10	YES	

BLIN: 109100

Exhibit P-5a  
Procurement History and Planning

Exhibit P-5a, Procurement History and Planning Continued	Weapon System	Date: MAY 2009
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Appropriation Code/Budget Activity/Serial Number: Procurement of Ammunition, Navy and Marine Corps/2/Ammunition	P-1 Line Item Nomenclature: (109100) 81MM, ALL TYPES
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WBS COST ELEMENTS	Qty	Unit Cost	Location of PCO	RFP Issue Date	Contract Method and Type	Contractor and Location	Award Date	Date of First Delivery	Tech Data Available Now?	Date Revisions Available
C871, CTG, 81MM ILLUM										
LOAD, ASSEMBLE & PACK (LAP)										
FY 2010	10,505	147.58	JMC, ROCK ISLAND, IL	OCT 06	SS/FFP	PINE BLUFF ARSENAL, PINE BLUFF, AR	DEC 09	SEP 11	YES	
PROPELLANT CHARGE M219										
FY 2010	43,596	12.45	JMC, ROCK ISLAND, IL	SEP 06	C/OP	TO BE DETERMINED (TBD)	MAR 10	JUL 11	YES	
IGNITION CARTRIDGE M752										
FY 2010	10,926	19.47	JMC, ROCK ISLAND, IL	OCT 06	C/OP	TO BE DETERMINED (TBD)	MAR 10	DEC 10	YES	
M9 FLAKE .010 (LB)										
FY 2010	245	85.37	JMC, ROCK ISLAND, IL	OCT 06	N/A/N/A	STOCK ISSUE	N/A	N/A	YES	
FUZE MTSQ M772										
FY 2010	10,926	204.48	JMC, ROCK ISLAND, IL	SEP 06	C/FP	TBD	DEC 09	DEC 10	YES	
M29 FIN F/81MM										
FY 2010	10,926	25.20	JMC, ROCK ISLAND, IL	OCT 06	C/OP	TO BE DETERMINED (TBD)	MAR 10	JAN 11	YES	
ILLUMINANT CANISTER										
FY 2010	10,926	147.58	JMC, ROCK ISLAND, IL	OCT 06	SS/FP	CRANE AAP, CRANE, IN	MAR 10	DEC 10	YES	
PARACHUTE ASSEMBLY										
FY 2010	10,926	29.65	JMC, ROCK ISLAND, IL	UNKNOWN	C/OP	TO BE DETERMINED (TBD)	MAR 10	JAN 11	YES	
BODY TUBES										
FY 2010	10,926	27.46	JMC, ROCK ISLAND, IL	UNKNOWN	C/OP	TO BE DETERMINED (TBD)	MAR 10	JAN 11	YES	
TAIL CONES										
FY 2010	11,598	14.53	JMC, ROCK ISLAND, IL	UNKNOWN	C/OP	TO BE DETERMINED (TBD)	MAR 10	JAN 11	YES	
FIBER CONTAINER										
FY 2010	10,926	4.49	JMC, ROCK ISLAND, IL	UNKNOWN	C/OP	TO BE DETERMINED (TBD)	MAR 10	JAN 11	YES	
CONTAINER PA157										
FY 2010	3,640	35.66	JMC, ROCK ISLAND, IL	UNKNOWN	C/OP	TO BE DETERMINED (TBD)	MAR 10	JAN 11	YES	
SPLIT SLEEVE										
FY 2010	21,851	2.17	JMC, ROCK ISLAND, IL	UNKNOWN	C/FP	TO BE DETERMINED (TBD)	MAR 10	JAN 11	YES	
DROGUE PLATE										
FY 2010	10,926	1.96	JMC, ROCK ISLAND, IL	UNKNOWN	C/FP	TO BE DETERMINED (TBD)	MAR 10	JAN 11	YES	

BLIN: 109100

Exhibit P-5a  
Procurement History and Planning





Exhibit P-21, Production Schedule	Date: MAY 2009
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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 Nomenclature: (109100) DODIC: C868, CTG, 81MM HE W//M734A1 MOF
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Item	Manufacturer's Name and Location	PRODUCTION RATE			PROCUREMENT LEADTIMES						Unit of Measure
		MSR	ECON	MAX	ALT Prior to Oct 1	ALT After Oct 1	Initial Mfg PLT	Reorder Mfg PLT	Total		
C868	1 GDOTS, ONTARIO, CANADA	15	22	55	6	6	18	18	24	K	
	2 TBD	15	22	55	6	6	18	18	24	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
C868	2008	MC1	93.0	0.0	93.0									A																93.0
	2009	MC1	134.0	0.0	134.0																	A								134.0
	2010	MC2	99.0	0.0	99.0																									99.0

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
C868	2008	MC1	93.0	0.0	93.0									5.0	8.0	15.0	15.0	15.0	20.0											0.0
	2009	MC1	134.0	0.0	134.0																		22.0	22.0	22.0	22.0	22.0	24.0		0.0
	2010	MC2	99.0	0.0	99.0							A																		99.0

REMARKS:

BLIN: 109100

Exhibit P-21  
Production Schedule

Exhibit P-21, Production Schedule, Continued	Date: MAY 2009
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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 Nomenclature: (109100) DODIC: C868, CTG, 81MM HE W//M734A1 MOF
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Item	Manufacturer's Name and Location	PRODUCTION RATE			PROCUREMENT LEADTIMES						Unit of Measure
		MSR	ECON	MAX	ALT Prior to Oct 1	ALT After Oct 1	Initial Mfg PLT	Reorder Mfg PLT	Total		
C868	GDOTS, ONTARIO, CANADA	15	22	55	6	6	18	18	24	K	
	2 TBD	15	22	55	6	6	18	18	24	K	

Item	Fiscal Year 2012												Fiscal Year 2013																	
	Calendar Year 2012												Calendar Year 2013																	
	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
C868	2008	MC1	93.0	93.0	0.0																									0.0
	2009	MC1	134.0	134.0	0.0																									0.0
	2010	MC2	99.0	0.0	99.0								22.0	22.0	22.0	33.0													0.0	

Item	Fiscal Year 2014												Fiscal Year 2015																
	Calendar Year 2014												Calendar Year 2015																
	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

REMARKS:

BLIN: 109100

Exhibit P-21  
Production Schedule

Exhibit P-21, Production Schedule Date: MAY 2009

Appropriation Code/Budget Activity/Serial Number: Procurement of Ammunition, Navy and Marine Corps/2/Ammunition Weapon System P-1 Line Item Nomenclature: (109100) DODIC: C869, CTG, 81MM HE WITH PD FUZE

Item	Manufacturer's Name and Location	PRODUCTION RATE			PROCUREMENT LEADTIMES					
		MSR	ECON	MAX	ALT Prior to Oct 1	ALT After Oct 1	Initial Mfg PLT	Reorder Mfg PLT	Total	Unit of Measure
C869	1CANADIAN COMMERCIAL CORP, ONTARIO CN	12	12	36	6	6	21	21	27	K
	2 TBD	12	12	36	6	6	21	21	27	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	2008	MC1	187	0	187																									187
	2009	MC1	116	0	116																									116
	2010	MC2	275	0	275																									275

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	2008	MC1	187	0	187			19	36	36	36	36	24																	0
	2009	MC1	116	0	116															36	36	32	12							0
	2010	MC2	275	0	275								A																	275

REMARKS: THIS DOES NOT REFLECT THE ARMY 'S BUYS WHICH MAKE UP THE CONTRACTOR'S 1-8-5 PRODUCTION RATES. CONTRACTOR'S PRODUCTION RATES ARE IN "000S".

BLIN: 109100

Exhibit P-21  
Production Schedule







Exhibit P-40, Budget Item Justification	Date: MAY 2009
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Appropriation Code/Budget Activity/Serial Number: Procurement of Ammunition, Navy and Marine Corps/2/Ammunition	P-1 Item Nomenclature: (112100) 120MM, ALL TYPES
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Program Element for Code B Items:	Other Related Program Elements
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	ID Code	FY 2008	FY 2009	FY 2010 Baseline	FY 2010 OCO	FY 2010 Total				
Proc Qty										
Gross Cost	A	147.942	121.552	29.579	62.265	91.844				

**Description:**

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. It 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.

The Cartridge, 120mm High Explosive Anti-Tank Multi-Purpose with Tracer (HEAT-MP-T) M830A1 (DODIC C791). The M830A1 Cartridge is used in the 120mm smooth bore M256 Cannon and is a fin-stabilized round with a discarding sabot. This is a multi-purpose round with anti-tank and air defense capability.

The XM1002 Target Practice Multi-Purpose Cartridge with Tracer (TPMP-T) DODIC CA31, 120mm Cartridge is a Training Cartridge for the tactical M830A1 HEAT-MP-T Cartridge.

The M1028 120mm Canister Cartridge (DODIC CA38) is used in the 120mm smooth bore M256 cannon aboard the M1A1 Main Battle Tank. The M1028 canister tank cartridge is a tank round comprised of 1150 tungsten balls, which are expelled upon muzzle exit.

The Multi-Purpose High Explosive (MPHE) is used in the 120mm smooth bore M256 cannon aboard the M1A1 Main Battle Tank. The MPHE cartridge is a tank round used with three modes of operation; Point Detonating, Delay, and Air Burst.

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.



Exhibit P-5, Cost Analysis			Weapon System			Date:						
						MAY 2009						
Appropriation Code/Budget Activity/Serial Number:			ID Code:	P-1 Line Item Nomenclature:								
Procurement of Ammunition, Navy and Marine Corps/2/Ammunition			A	(112100) 120MM, ALL TYPES								
WBS COST ELEMENTS	FY08			FY09			FY10 Baseline			FY10 OCO		
	Total Cost	Qty	Unit Cost	Total Cost	Qty	Unit Cost	Total Cost	Qty	Unit Cost	Total Cost	Qty	Unit Cost
HARDWARE												
C785, CTG, 120MM TPCSDS-T M865												
COMPLETE ROUND M865	36.860	42,940	858.41	5.549	5,588	993.04	4.048	4,520	895.65	30.828	34,420	895.65
CA31, CTG, 120MM TPMP-T M1002												
COMPLETE ROUND	43.665	28,471	1533.66	6.803	4,746	1433.41	7.208	4,699	#####	27.020	17,615	1533.97
MPHE, MULTI-PURPOSE HIGH EXPLOSIVE												
AMMUNITION UNDER DEVELOPMENT	24.000			15.000								
EFSS, EXPEDITIONARY FIRE SUPPORT SYSTEM (EFSS)												
AMMUNITION UNDER DEVELOPMENT	36.861			92.540			17.878			4.000		
PRODUCT												
ACCEPTANCE TESTING	0.999			0.123			0.050					
PRODUCTION ENGINEERING	4.916			1.366			0.376			0.415		
QUALITY ASSURANCE	0.030			0.003			0.019			0.002		
NONRECURRING												
CONTAINER EFFORT												
ENGINEERING STUDY	0.611			0.168								
FORCE PROTECTION												
TOTAL												
	147.942			121.552			29.579			62.265		





Exhibit P-21, Production Schedule Date: MAY 2009

Appropriation Code/Budget Activity/Serial Number: Procurement of Ammunition, Navy and Marine Corps/2/Ammunition Weapon System: (112100) DODIC: C785, CTG, 120MM TPCSDS-T M865

Item	Manufacturer's Name and Location	PRODUCTION RATE			PROCUREMENT LEADTIMES					Total	Unit of Measure
		MSR	ECON	MAX	ALT Prior to Oct 1	ALT After Oct 1	Initial Mfg PLT				
C785	1 GENERAL DYNAMICS, ST. PETERSBURG, FL, GENERAL DYNAMICS, ST. PETERSBURG, FL	0.5	8	24	6	5	12			17	K
	2 ALLIANT TECH SYS INC, PLYMOUTH, MN	0.5	8	24	6	4	12			16	

Item	Fiscal Year 2011												Fiscal Year 2012															
	Calendar Year 2012						Calendar Year 2013						Calendar Year 2013															
	F	S	Q	D	B	O	J	F	M	A	M	J	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S
C785	2008	MC1	26.48	9.52	0.00																							
	2008	MC2	16.46	16.46	0.00																							
	2009	MC1	2.79	2.79	0.00																							
	2009	MC2	2.79	2.79	0.00																							
	2010	MC1	19.47	16.21	3.26	1.63	1.63																					
	2010	MC2	19.47	16.21	3.26	1.63	1.63																					

Item	Fiscal Year 2011												Fiscal Year 2012															
	Calendar Year 2012						Calendar Year 2013						Calendar Year 2013															
	F	S	Q	D	B	O	J	F	M	A	M	J	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S

REMARKS:



Exhibit P-40, Budget Item Justification	Date: MAY 2009
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Appropriation Code/Budget Activity/Serial Number: Procurement of Ammunition, Navy and Marine Corps/2/Ammunition	P-1 Item Nomenclature: (138800) 25MM, ALL TYPES
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Program Element for Code B Items:	Other Related Program Elements
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	ID Code	FY 2008	FY 2009	FY 2010	FY 2010 OCO	FY 2010 TOTAL				
Proc Qty										
Gross Cost	A	12.539	2.293	2.259	0.563	2.822				

Description:

The Cartridge, 25mm Target Practice Discarding Sabot with Tracer (TPDS-T) M910 Linked (DODIC A940) is fired from the M242 Automatic Cannon. This cartridge is a fixed type, percussion primer 25mm ammunition intended as a training substitute for armor piercing service ammunition.

The Cartridge, 25mm High-Explosive Incendiary with Tracer (HEI-T) M792 Linked (DODIC A975) is a high-explosive incendiary round equipped with a tracer. It is a fixed-type, percussion-primed ammunition fired from the M242 Automatic Cannon. It is used as a high-explosive service round for engaging unarmored ground targets.

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.



Exhibit P-5a, Procurement History and Planning	Weapon System	Date: MAY 2009
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Appropriation Code/Budget Activity/Serial Number: Procurement of Ammunition, Navy and Marine Corps/2/Ammunition	P-1 Line Item Nomenclature: (138800) 25MM, ALL TYPES
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WBS COST ELEMENTS	Qty	Unit Cost	Location of PCO	RFP Issue Date	Contract Method and Type	Contractor and Location	Award Date	Date of First Delivery	Tech Data Available Now?	Date Revisions Available
A940, CTG, 25MM TPDS-T LINKED										
LOAD, ASSEMBLE & PACK (LAP)										
FY 2008	364,757	17.61	JMC, ROCK ISLAND, IL	UNKNOWN	C/OP	GDOTS, MARION, IL	MAR 08	DEC 08	YES	
FY 2009	35,427	24.14	JMC, ROCK ISLAND, IL	UNKNOWN	C/OP	GDOTS, MARION, IL	MAR 09	MAR 10	YES	
FY2009	35,428	24.14	JMC, ROCK ISLAND, IL	UNKNOWN	C/OP	ATK, MESA, AZ	MAR 09	MAR 10	YES	
FY2010	40,658	23.43	JMC, ROCK ISLAND, IL	UNKNOWN	C/OP	GDOTS, MARION, IL	JAN 10	JAN 11	YES	
FY 2010	40,658	23.43	JMC, ROCK ISLAND, IL	UNKNOWN	C/OP	ATK, MESA, AZ	JAN 10	JAN 11	YES	
CONTAINER, PA125										
FY 2008	12,497	34.34	JMC, ROCK ISLAND, IL	UNKNOWN	C/OP	CONCO, INC, LOUISVILLE, KY	MAY 08	AUG 08	YES	
FY 2009	2,428	52.72	JMC, ROCK ISLAND, IL	UNKNOWN	C/OP	CONCO, INC, LOUISVILLE, KY	MAY 09	AUG 09	YES	
FY 2010	2,786	49.38	JMC, ROCK ISLAND, IL	UNKNOWN	C/OP	CONCO, INC, LOUISVILLE, KY	MAY 10	AUG 10	YES	
A976, CTG, TP-T M793										
LOAD, ASSEMBLE & PACK (LAP)										
FY 2008	191,604	15.32	JMC, ROCK ISLAND, IL	UNKNOWN	C/OP	GDOTS, MARION, IL	MAR 08	JUN 09	YES	
FY 2008	145,050	15.32	JMC, ROCK ISLAND, IL	UNKNOWN	C/OP	ATK, MESA, AZ	MAR 08	JUN 9	YES	
FY 2009	10,507	18.06	JMC, ROCK ISLAND, IL	UNKNOWN	C/OP	GDOTS, MARION, IL	MAR 09	MAR 10	YES	
FY 2010	18,696	17.52	JMC, ROCK ISLAND, IL	UNKNOWN	C/OP	GDOTS, MARION, IL	JAN 10	JAN 11	YES	
FY 2010	18,697	17.52	JMC, ROCK ISLAND, IL	UNKNOWN	C/OP	ALLIANT TECH (RAAP), RADFORD	JAN 10	JAN 11	YES	
CONTAINER, PA125										
FY 2008	11,534	34.88	JMC, ROCK ISLAND, IL	UNKNOWN	C/OP	CONCO, INC, LOUISVILLE, KY	MAY 08	AUG 08	YES	
FY 2009	360	52.72	JMC, ROCK ISLAND, IL	UNKNOWN	C/OP	CONCO, INC, LOUISVILLE, KY	MAY 09	AUG 09	YES	
FY 2010	1,281	49.38	JMC, ROCK ISLAND, IL	UNKNOWN	C/OP	CONCO, INC, LOUISVILLE, KY	MAY 10	AUG 10	YES	



Exhibit P-40, Budget Item Justification	Date: MAY 2009
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Appropriation Code/Budget Activity/Serial Number: Procurement of Ammunition, Navy and Marine Corps/2/Ammunition	P-1 Item Nomenclature: (146800) GRENADES, ALL TYPES
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Program Element for Code B Items:	Other Related Program Elements
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	ID Code	FY 2008	FY 2009	FY 2010	FY 2010 OCO	FY 2010 TOTAL				
Proc Qty										
Gross Cost	A	56.754	56.584	10.694	6.074	16.768				

**Description:**

The Fuze, Hand Grenade Practice M228 (DODIC G878) is a pyrotechnic delay-igniting fuze. The fuze is used with the Grenade, Hand Practice M69 (DODIC G811). The fuze contains a primer and a pyrotechnic delay column.

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 contains 6.5 ounces of Composition B high explosive. This grenade is fuzed with the M213 Pyrotechnic Delay-detonating Fuze.

The Grenade, Hand Incendiary Thermite (TH-3) AN-M14 (DODIC G900) is used to provide a source of intense heat to destroy equipment. This incendiary hand grenade generates heat up to 4000° F. The grenade filler will burn for 30 to 45 seconds. It is filled with an incendiary mixture, TH-3, and First-Fire Mixture VII. This grenade is fuzed with the M201A1 Pyrotechnic Delay-igniting Fuze.

The Grenade, Hand Smoke Violet, M18 (DODIC G955) is used for screening, marking, and signaling. Each grenade will emit smoke for 50 to 135 seconds. The M201A1 Fuze is a pyrotechnic delay-igniting fuze.

The Grenade, Hand Smoke Terephthalic Acid (TA) M83 (DODIC G982) is a burning type grenade used to generate white smoke. It is used for ground-to-air / ground signaling. It is filled with TA smoke mixture topped with a starter patch. The duration of smoke screen or signal is 25 to 70 seconds, average burn time. The M83 Grenade comes with a M201A1 Pyrotechnic Delay-Igniting Fuze consisting of a primer, pyrotechnic delay column, and starter slug.

The Grenade, 66mm Smoke Screening (IR), Vehicle Launched MK 1 MOD 0 (DODIC GG24) is used in the M256 Smoke Grenade Launcher installed on Tanks, AAV's, and LAVs. This 66mm Smoke Screening Gren will provide infra-red (IR) and visual smoke screening for armored/tactical vehicles and personal in combat and training environments.

The Mine, Antipersonnel M18A1 Non-Electric (Shock Tube) initiation system (DODIC J007) is a fragmentation anti-personnel mine that contains 700 steel balls and 682 grams of composition C4 explosive. It is a command detonated mine that is activated by a blasting cap. The mine projects a fan shaped pattern of steel balls in a 60° arc at a height of 2 meters and cover a casualty radius of 100 meters.

The Mine, Antipersonnel Practice M68 with Accessories (Non-Electric, Inert (Shock Tube) initiation system) (DODIC J008) is used to train personnel in the handling and use of the Mine, Antipersonnel (APERS) M18A1. The DODIC J008 comes in a kit consisting of the blue M33 APERS Mine and is equipped with the inert blasting cap to simulate command detonation. The Inert Firing Device looks the same as those issued with the M18A1.

Exhibit P-40, Budget Item Justification, Continued	Date: MAY 2009
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Appropriation Code/Budget Activity/Serial Number: Procurement of Ammunition, Navy and Marine Corps/2/Ammunition	P-1 Item Nomenclature: (146800) GRENADES, ALL TYPES
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Program Element for Code B Items:	Other Related Program Elements
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	ID Code	FY 2008	FY 2009	FY 2010	FY 2010 OCO	FY 2010 TOTAL					
Proc Qty											
Gross Cost	A	56.754	56.584	10.694	6.074	16.768					

The SPIDER, (DODIC KSPD) is a hand-emplaced system that consists of three main hardware items: Munition Control Units (lethal and non-lethal), remote control and a repeater. SPIDER requires a man-in-the loop for system operation and activation of the lethal mechanism. With this feature, the Marine makes a conscious decision based on intelligence and rules of engagement to engage a target with a lethal mechanism. This prevents fratricide and addresses the humanitarian concerns.

The Signal, Illumination, Ground Green Star Parachute M195 (DODIC L305) is a rocket propelled, fin stabilized, hand launched, nighttime/daytime signaling device. When fired vertically, the signal project to an altitude of approximately 700-800 feet, producing a parachute suspended star which burns for 50 seconds.

The Signal, Illumination Ground Red Star Cluster M158 (DODIC L306) 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 to 18 seconds (minimum).

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 to 18 seconds (minimum).

The Signal, Illumination Ground Red Star Parachute M126A1 (DODIC L311) 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 50 seconds (minimum).

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 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 to 18 seconds (minimum).

Exhibit P-40, Budget Item Justification, Continued	Date: MAY 2009
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Appropriation Code/Budget Activity/Serial Number: Procurement of Ammunition, Navy and Marine Corps/2/Ammunition	P-1 Item Nomenclature: (146800) GRENADES, ALL TYPES
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Program Element for Code B Items:	Other Related Program Elements
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	ID Code	FY 2008	FY 2009	FY 2010	FY 2010 OCO	FY 2010 TOTAL				
Proc Qty										
Gross Cost	A	56.754	56.584	10.694	6.074	16.768				

The Flare, Surface Trip M49A1 (DODIC L495) consists of an illuminant assembly, cover loading assembly, and mounting bracket assembly. It is used to give warning of infiltrating Forces by illuminating the field of the advancing enemy.

The Simulator, Projectile Ground Burst M115A2 (DODIC L594) is used to simulate battle noises and effects on land only ( in flight and ground explosions) during maneuvers and personnel training. This simulator consists of a cylindrical paper tube containing a photoflash charge and a whistle assembly. The whistle assembly, extending from one end of the photoflash charge, is a paper tube containing a slow burning whistle composition, and is joined to a fuze lighter by a length of safety fuze.

The Simulator, Explosive Booby Trap M117 Flash (DODIC L598) is used as a safe booby trap during maneuvers and in personnel training. The pull cord runs through the initiating assembly.

The Simulator, Hand Grenade M116A1 (DODIC L601) is used to simulate battle noises and effects on land only during maneuvers and troop training. This simulator consists of a cylindrical paper tube containing a charge of photoflash powder. A fuse igniter, type M3A1, is taped to the outside of the tube and is joined to the photoflash powder by a safety fuse. A safety clip through the cap of the fuse igniter prevents accidental detonation.

The Signaling Colored Smoke Grenades, colors: Green, Yellow, Red, Violet, and White. Signaling Colored Smoke Grenades provide ground-to-air or ground-to-ground signaling during battlefield operations. The intent is to procure colored smoke grenades that will provide the war fighter with smoke duration, a standard and possibly safer initiation system, and a reduced flame at ignition similar to the M18. The candidate grenades must display performance similar or greater than the existing M18 smoke grenades.

The Smokey Sam, DODIC YW33 is a rocket constructed of phenolic paper and Styrofoam fins used to provide a realistic visual Surface-to-Air/Surface-to-Surface Missile (SAM) threat during training exercises. It was given its name because of the thick white cloud of smoke that it trails when fired to simulate a SAM. The Smokey Sam is 38 cm (15 in) long and has a diameter of 5 cm (2 in). It has a maximum ceiling of 550 m (1800 ft). The Smokey Sam can be launched from unprepared ground by using single bay or four bay launchers (LMU-23/E and LMU-24/E, respectively).



Exhibit P-5, Cost Analysis			Weapon System			Date:						
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								
WBS COST ELEMENTS	FY08			FY09			FY10			FY10 OCO		
	Total Cost	Qty	Unit Cost	Total Cost	Qty	Unit Cost	Total Cost	Qty	Unit Cost	Total Cost	Qty	Unit Cost
HARDWARE												
G878, FUZE, HAND GRENADE PRACTICE M228												
LOAD, ASSEMBLY & PACK (LAP)	14.732	3,458,129	4.26	4.895	1,054,056	4.64	2.384	358,318	6.65	0.451	67,819	6.65
G881, GRENADE, HAND FRAGMENTATION M67												
LOAD, ASSEMBLY AND PACK (LAP)	8.845	486,508	18.18	3.096	95,331	32.48	2.479	75,682	32.76			
COMP B TYPE I GRADE A (LB)	0.54	218,929	2.47	0.099	42,899	2.31	0.081	34,057	2.37			
G900, GRENADE, HAND INCENDIARY TH3 AN-M14												
LOAD, ASSEMBLY & PACK (LAP)										1.000	12,260	81.57
FUZE HAND GRENADE M201A1										0.071	12,751	5.57
GREN, TOPS AND BODIES										0.025	14,099	1.78
G982, GREN HAND SMOKE TA M83												
LOAD, ASSEMBLY & PACK (LAP)				2.430	62,135	39.11						
FUZE HAND GRENADE M201A1				0.364	64,621	5.63						
GREN, TOPS AND BODIES				0.101	71,456	1.42						
GG24, GREN 66MM SSVL MK1 MOD0												
LOAD, ASSEMBLY & PACK (LAP)	7.201	45,576	158.00	11.532	68,236	169.00	0.860	4,778	180.00			
J007, MINE, APERS M18A1 W/ SHOCK TUBE												
LOAD, ASSEMBLY & PACK (LAP)	2.784	16,557	168.14	2.532	13,145	192.60						
COMP C-4 CLASS 3				0.206	21,690	9.48						
** GFM ** COMP C-4 CLASS 3	0.239	27,320	8.76									
J008, MINE, APERS PRACTICE W/ SHOCK TUBE												
LOAD, ASSEMBLY & PACK (LAP)	0.925	6,501	142.21	0.072	183	394.34						
INERT MINI DEMOLITION SYSTEM				0.013	183	69.14						
KSPD, MUNITIONS CONTROL UNIT												
LOAD, ASSEMBLY & PACK (LAP)							1.655	5	0.331			
L305, SIGNAL, ILLUM GROUND GSC M195												
LOAD, ASSEMBLY & PACK (LAP)				3.689	73,568	50.15				1.150	22,481	51.15
*BOX METAL M548 (EA)				0.094	3,098	30.25				0.030	947	31.65
SUB TOTAL												
	35.266			29.123			7.459			2.727		

BLIN: 146800

Exhibit P-5  
Cost Analysis

Exhibit P-5, Cost Analysis Continued			Weapon System			Date: MAY 2009						
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								
	FY08			FY09			FY10			FY10 OCO		
	Total Cost	Qty	Unit Cost	Total Cost	Qty	Unit Cost	Total Cost	Qty	Unit Cost	Total Cost	Qty	Unit Cost
WBS COST ELEMENTS												
L306, SIGNAL, ILLUM GROUND RSC M158												
LOAD, ASSEMBLY & PACK (LAP)	1.741	46,158	37.71	1.961	41,490	47.26						
*BOX METAL M548 (EA)	0.058	1,944	29.85	0.053	1,747	30.25						
L307, SIGNAL, ILLUM GROUND WSC M159												
LOAD, ASSEMBLY & PACK (LAP)	2.915	72,098	40.43	2.792	58,098	48.06						
*BOX METAL M548 (EA)	0.091	3036	29.85	0.074	2,446	30.25						
L311, SIGNAL, ILLUM GROUND RSP M126A1												
LOAD, ASSEMBLY & PACK (LAP)				0.962	18,571	51.78						
*BOX METAL M548 (EA)				0.024	782	30.25						
L312, SIGNAL, ILLUM GROUND WSP M127A1												
LOAD, ASSEMBLY & PACK (LAP)	2.812	68,684	40.95	5.239	105,524	49.64						
*BOX METAL M548 (EA)	0.087	2,892	29.98	0.134	4,443	30.25						
L314, SIGNAL ILLUM GND GSC M125A1												
LOAD, ASSEMBLY & PACK (LAP)	2.735	65,042	42.05	3.809	81,074	46.98				0.850	17,743	47.92
*BOX METAL M548 (EA)	0.082	2,739	29.85	0.103	3,414	30.25				0.024	747	31.65
L495, FLARE, SURFACE TRIP M49A1												
LOAD, ASSEMBLY & PACK (LAP)				1.789	47,239	37.86						
L594, SIMULATOR, PROJ GROUND BURST M115A2												
LOAD, ASSEMBLY & PACK (LAP)	5.053	275,512	18.34	3.428	186,424	18.39				0.509	25,431	20.03
L598, SIMULATOR, BOOBYTRAP FLASH M117												
LOAD, ASSEMBLY & PACK (LAP)	2.023	112,400	17.99	3.096	114,625	27.01						
L601, SIMULATOR, HAND GRENADE M116A1												
LOAD, ASSEMBLY & PACK (LAP)	0.420	28,885	14.55	0.012	830	14.73						
FUZE POWDER TYPE I												
PRODUCT												
PRODUCT ENGINEERING	1.992			1.653			0.151			0.548		
QUALITY ASSURANCE	1.479			1.077			0.061			0.051		
SUB TOTAL	21.488			26.206			0.212			1.982		
TOTAL	56.754			55.329			7.671			4.709		

BLIN: 146800

Exhibit P-5a, Procurement History and Planning					Weapon System			Date:		
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	RFP Issue Date	Contract Method and Type	Contractor and Location	Award Date	Date of First Delivery	Tech Data Available Now?	Date Revisions Available
G878, FUZE, HAND GRENADE PRACTICE M228										
LOAD, ASSEMBLE & PACK (LAP)										
FY 2008	2,401,905	4.26	JMC, ROCK ISLAND, IL	JAN 08	C/OP	MARTIN ELECTRONICS INDUSTRIES, PERRY, FL	MAR 08	MAR 09	NO	
FY 2008	1,056,224	4.26	JMC, ROCK ISLAND, IL	JAN 09	C/OP	TO BE SELECTED	MAR 08	FEB 10	YES	
FY 2009	1,054,056	4.64	JMC, ROCK ISLAND, IL	JAN 09	C/FP	TO BE SELECTED	JUL 09	NOV 10	YES	
FY 2010	426,137	6.65	JMC, ROCK ISLAND, IL	JAN 10	C/OP	TO BE SELECTED	MAR 10	OCT 11	YES	
G881, GRENADE, HAND FRAGMENTATION M67										
LOAD, ASSEMBLE & PACK (LAP)										
FY 2008	486,508	18.18	JMC, ROCK ISLAND, IL	JAN 08	C/OP	L-3 COMM BT FUZE, LANCASTER, PA	MAR 08	DEC 10	NO	
FY 2009	95,331	32.48	JMC, ROCK ISLAND, IL	JUL 09	C/FP	TBD	NOV 09	MAY 11	YES	
FY 2010	75,682	32.76	JMC, ROCK ISLAND, IL	JAN 10	C/OP	TBD	MAR 10	JAN 12	YES	
COMP B TYPE 1 GRADE A (LB)										
FY 2008	218,929	2.47	N/A	N/A	N/A	STOCK ISSUE	N/A	N/A	NO	
FY 2009	42,899	2.31	JMC, ROCK ISLAND, IL	N/A	N/A	STOCK ISSUE	N/A	N/A	YES	
FY 2010	34,057	2.37	JMC, ROCK ISLAND, IL	N/A	N/A	STOCK ISSUE	N/A	N/A	YES	
G900, GRENADE, HAND INCENDIARY TH3 AN-M14										
LOAD, ASSEMBLE & PACK (LAP)										
FY 2010 OCO	12,260	81.57	JMC, ROCK ISLAND, IL	JAN 10	SS/FP	TBD	MAR 10	MAR 11	YES	
FUZE HAND GRENADE M201A1										
FY 2010 OCO	12,751	5.57	JMC, ROCK ISLAND, IL	JAN 10	C/OP	TBD	MAR 10	MAR 11	YES	
GREN, TOPS AND BODIES										
FY 2010 OCO	14,099	1.78	JMC, ROCK ISLAND, IL	JAN 10	C/OP	TBD	MAR 10	MAR 11	YES	
G982, GREN HAND SMOKE TA M83										
LOAD, ASSEMBLE & PACK (LAP)										
FY 2009	62,135	39.11	JMC, ROCK ISLAND, IL	MAR 09	SS/FP	PINE BLUFF ARSENAL (PBA) PINE BLUFF, AR	JUN 09	NOV 10	YES	
FUZE HAND GRENADE M201A1										
FY 2009	64,621	5.63	JMC, ROCK ISLAND, IL	MAR 09	C/FP	TBD	JUN 09	JUN 10	YES	
GREN, TOPS AND BODIES										
FY 2009	71,456	1.42	JMC, ROCK ISLAND, IL	MAR 09	C/FP	TBD	JUN 09	JUN 10	YES	
GG24, GREN 66MM SSVL MK 1 MOD 0										
LOAD, ASSEMBLE & PACK (LAP)										
FY 2008	45,576	158.00	MCSC, QUANTICO, VA	JUN 06	C/OP	RHEINMETALL, NEUENBURG, GERMANY	SEP 06	JUL 09	YES	
FY 2009	68,236	169.00	MCSC, QUANTICO, VA	JUN 06	C/OP	RHEINMETALL, NEUENBURG, GERMANY	SEP 06	JUN 10	YES	
FY 2010	4,778	180.00	MCSC, QUANTICO, VA	JUN 06	C/OP	RHEINMETALL, NEUENBURG, GERMANY	SEP 06	DEC 10	YES	

Exhibit P-5a, Procurement History and Planning					Weapon System			Date:		
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	RFP Issue Date	Contract Method and Type	Contractor and Location	Award Date	Date of First Delivery	Tech Data Available Now?	Date Revisions Available
J007 MINE, APERS (CLAYMORE) M18A1 LOAD, ASSEMBLY & PACK (LAP)										
FY 2008	16,557	168.14	JMC, ROCK ISLAND, IL	JAN 08	C/OP	SPECTRA TECHNOLOGIES, EAST CAMDEN, AR	MAR 08	DEC 08	NO	
FY 2009	13,145	192.60	JMC, ROCK ISLAND, IL	NOV 08	C/OP	SPECTRA TECHNOLOGIES, EAST CAMDEN, AR	FEB 09	JUN 10	YES	
COMP C-4 CLASS 3 (LB)										
FY 2008 *GFM*	27,320	8.76	N/A	N/A	N/A	STOCK ISSUE	N/A	N/A	YES	
FY 2009	21,690	9.48	JMC, ROCK ISLAND, IL	JAN 10	SS/FP	ORDNANCE SYSTEMS INC (HAAP) KINGSPORT, TN	MAR 09	APR 10	YES	
J008, MINE KIT, APERS PRACTICE LOAD, ASSEMBLY & PACK (LAP)										
FY 2008	6,501	142.21	JMC, ROCK ISLAND, IL	JAN 08	C/OP	SPECTRA TECHNOLOGIES, EAST CAMDEN, AR	MAR 08	NOV 08	YES	
FY 2009	183	394.34	JMC, ROCK ISLAND, IL	DEC 08	C/OP	SPECTRA TECHNOLOGIES, EAST CAMDEN, AR	FEB 09	MAR 10	YES	
INERT MINI DEMOLITION SYSTEM										
FY 2009	183	69.14	JMC, ROCK ISLAND, IL	NOV 08	C/OP	SPECTRA TECHNOLOGIES, EAST CAMDEN, AR	FEB 09	JAN 10	NO	
KSPD, MUNITIONS CONTROL UNIT LOAD, ASSEMBLY & PACK (LAP)										
FY 2010	5	331,000	JMC, ROCK ISLAND, IL	JAN 10	C/OP	TBD	MAR 10	MAR 11	NO	
L305, SIGNAL, ILLUM GROUND GSC M195 LOAD, ASSEMBLY & PACK (LAP)										
FY 2009	73,568	50.15	JMC, ROCK ISLAND, IL	JAN 09	C/OP	SECURITY SIGNALS, CORDOVA, TN	MAR 09	JAN 10	YES	
FY 2010 OCO	22,481	51.15	JMC, ROCK ISLAND, IL	FEB 10	C/FP	TBD	MAY 10	NOV 11	YES	
BOX, METAL M548										
FY 2009	3,098	30.25	JMC, ROCK ISLAND, IL	JAN 08	C/FP	CONCO INC. LOUISVILLE, KY	AUG 09	FEB 10	YES	
FY 2010	947	31.65	JMC, ROCK ISLAND, IL	JAN 09	C/OP	TBD	MAR 10	SEP 10	YES	
L306, SIGNAL, ILLUM GROUND RSC M158 LOAD, ASSEMBLY & PACK (LAP)										
FY 2008	46,158	37.71	JMC, ROCK ISLAND, IL	JAN 08	C/OP	SECURITY SIGNALS, CORDOVA, TN	MAR 08	FEB 10	NO	
FY 2009	41,190	47.26	JMC, ROCK ISLAND, IL	JAN 09	C/OP	SECURITY SIGNALS, CORDOVA, TN	MAR 09	JUN 10	YES	
BOX, METAL M548										
FY 2008	1,944	29.85	JMC, ROCK ISLAND, IL	JAN 08	C/OP	CONCO INC. LOUISVILLE, KY	MAR 08	SEP 08	YES	
FY 2009	1,747	30.25	JMC, ROCK ISLAND, IL	MAY 09	C/OP	TBD	AUG 09	FEB 10	YES	
L307, SIGNAL, ILLUM GROUND WSC M159 LOAD, ASSEMBLY & PACK (LAP)										
FY 2008	72,098	40.43	JMC, ROCK ISLAND, IL	JAN 08	C/OP	SECURITY SIGNALS, CORDOVA, TN	MAR 08	MAY 10	NO	
FY 2009	58,098	48.06	JMC, ROCK ISLAND, IL	JAN 09	C/OP	SECURITY SIGNALS, CORDOVA, TN	MAR 09	JUN 10	YES	
BOX, METAL M548										
FY 2008	3,036	29.85	JMC, ROCK ISLAND, IL	JAN 08	C/OP	CONCO INC. LOUISVILLE, KY	MAR 08	SEP 08	NO	
FY 2009	2,446	30.25	JMC, ROCK ISLAND, IL	MAY 09	C/FP	TBD	AUG 09	FEB 10	YES	



Exhibit P-5a, Procurement History and Planning					Weapon System			Date:		
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	RFP Issue Date	Contract Method and Type	Contractor and Location	Award Date	Date of First Delivery	Tech Data Available Now?	Date Revisions Available
L311, SIGNAL, ILLUM GROUND RSP M126A1 LOAD, ASSEMBLY & PACK (LAP)										
FY 2009	18,571	51.78	JMC, ROCK ISLAND, IL	JAN 09	C/OP	SECURITY SIGNALS, CORDOVA, TN	MAR 09	JUN 10	YES	
BOX, METAL M548										
FY 2009	782	30.25	JMC, ROCK ISLAND, IL	MAY 09	C/FP	TBD	MAR 09	OCT 09	YES	
L312, SIGNAL, ILLUM GROUND WSP M127A1 LOAD, ASSEMBLY & PACK (LAP)										
FY 2008	68,684	40.95	JMC, ROCK ISLAND, IL	JAN 08	C/OP	SECURITY SIGNALS, CORDOVA, TN	MAR 08	AUG 09	NO	
FY 2009	105,524	49.64	JMC, ROCK ISLAND, IL	JAN 09	C/OP	SECURITY SIGNALS, CORDOVA, TN	MAR 09	JUN 10	YES	
BOX, METAL M548										
FY 2008	2,892	29.98	JMC, ROCK ISLAND, IL	JAN 08	C/OP	CONCO INC. LOUISVILLE, KY	MAR 08	SEP 08	NO	
FY 2009	4,443	30.25	JMC, ROCK ISLAND, IL	JAN 09	C/FP	TBD	AUG 09	FEB 10	YES	
L314, SIGNAL, ILLUM GROUND GSC M125A1 LOAD, ASSEMBLY & PACK (LAP)										
FY 2008	65,042	42.05	JMC, ROCK ISLAND, IL	JAN 08	C/OP	SECURITY SIGNALS, CORDOVA, TN	MAR 08	JUL 09	NO	
FY 2009	81,074	46.98	JMC, ROCK ISLAND, IL	JAN 09	C/OP	SECURITY SIGNALS, CORDOVA, TN	MAR 09	JUN 10	YES	
FY 2010	17,743	47.92	JMC, ROCK ISLAND, IL	JAN 10	C/OP	SECURITY SIGNALS, CORDOVA, TN	MAY 10	NOV 11	YES	
BOX, METAL M548										
FY 2008	2,739	29.85	JMC, ROCK ISLAND, IL	JAN 08	C/OP	CONCO INC. LOUISVILLE, KY	MAR 08	SEP 09	NO	
FY 2009	3,414	30.25	JMC, ROCK ISLAND, IL	JAN 09	C/FP	TBD	AUG 09	FEB 10	YES	
FY 2010	747	31.65	JMC, ROCK ISLAND, IL	JAN 10	C/OP	TBD	MAR 10	SEP 10	YES	
L495, FLARE, SURFACE TRIP M49A1 COMPLETE ROUND										
FY 2009	47,239	37.86	JMC, ROCK ISLAND, IL	JAN 09	C/OP	MARTIN ELECTRONICS INDUSTRIES, PERRY, FL	MAR 09	JUN 10	YES	
L594, SIMULATOR, PROJ GROUND BURST M115A2 LOAD, ASSEMBLY & PACK (LAP)										
FY 2008	275,512	18.34	JMC, ROCK ISLAND, IL	JAN 08	C/OP	GRUCCI FIREWORKS, RADFORD, VA	MAR 08	SEP 10	NO	
FY 2009	186,424	18.39	JMC, ROCK ISLAND, IL	JAN 09	C/OP	GRUCCI FIREWORKS, RADFORD, VA	MAR 09	MAY 12	YES	
FY 2010	25,431	20.03	JMC, ROCK ISLAND, IL	MAR 09	C/FP	TBD	MAY 10	NOV 11	YES	
L598, SIMULATOR, BOOBYTRAP FLASH M117 COMPLETE ROUND										
FY 2008	112,400	17.99	JMC, ROCK ISLAND, IL	JAN 08	C/OP	BULOVA TECHNOLOGIES, LANCASTER, PA	MAR 08	SEP 12	NO	
FY 2009	114,625	27.01	JMC, ROCK ISLAND, IL	MAY 09	C/FP	TBD	JUL 09	NOV 10	YES	



Exhibit P-21, Production Schedule	Date: MAY 2009
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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 Nomenclature: (146800) DODIC: G878, FUZE, HAND GRENADE PRACTICE M228
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Item	Manufacturer's Name and Location	PRODUCTION RATE			PROCUREMENT LEADTIMES						Unit of Measure
		MSR	ECON	MAX	ALT Prior to Oct 1	ALT After Oct 1	Initial Mfg PLT	Reorder Mfg PLT	Total		
G878	1 TBD	0.1	0.19	0.40	6	8	18	12	26	M	
	2 MARTIN ELECTRONICS INDUSTRIES, PERRY, FL	0.2	0.28	0.46							
	3 TBD										
	4 TBD										

Item	Fiscal Year 2008												Fiscal Year 2009																
	Calendar Year 2008												Calendar Year 2009																
	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
G878	2008	MC1	0.28	0	0.28							A																	0.12
	2008	MC2	2.40	0	2.40							A																	0
	2008	MC4	1.06	0	1.06							A																	1.06
	2009	MC4	1.05	0	1.05																						A		1.05
	2010	MC4	0.43	0	0.43																								0.43

Item	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
G878	2008	MC1	0.28	0.16	0.12	0.12																							0
	2008	MC2	2.40	2.4	0.00																								0
	2008	MC4	1.06	0	1.06																								0
	2009	MC4	1.05	0	1.05															0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.06
	2010	MC4	0.43	0	0								A															0.43	

REMARKS:

BLIN: 146800

Exhibit P-21  
Production Schedule



Exhibit P-21, Production Schedule	Date: MAY 2009
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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 Nomenclature: (146800) DODIC: G881, GRENADE, HAND FRAGMENTATION M67
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Item	Manufacturer's Name and Location	PRODUCTION RATE			PROCUREMENT LEADTIMES						Unit of Measure
		MSR	ECON	MAX	ALT Prior to Oct 1	ALT After Oct 1	Initial Mfg PLT	Reorder Mfg PLT	Total		
G881	1 L-3 COMMUNICATIONS, LANCASTER PA	30	50	100	6	8	24	18	32	K	
	2 TBD	30	50	100							

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
G881	2008	MC1	487.0	0	487.0							A																		487.0
	2009	MC2	95.0	0	95.0																									0
	2010	MC2	76.0	0	76.0																									0

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	
G881	2008	MC1	487.0	0	487.0															67.0	70.0	70.0	70.0	70.0	70.0	70.0				0	
	2009	MC2	95.0	0	95.0																					11.0	11.0	11.0	11.0	11.0	0.40
	2010	MC2	76.0	0	76.0								A																	76.0	

REMARKS:

BLIN: 146800

Exhibit P-21  
Production Schedule

Exhibit P-21, Production Schedule, Continued	Date: MAY 2009
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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 Nomenclature: (146800) DODIC: G881, GRENADE, HAND FRAGMENTATION M67
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Item	Manufacturer's Name and Location	PRODUCTION RATE			PROCUREMENT LEADTIMES						Unit of Measure
		MSR	ECON	MAX	ALT Prior to Oct 1	ALT After Oct 1	Initial Mfg PLT	Reorder Mfg PLT	Total		
G881	1 L-3 COMMUNICATIONS, LANCASTER PA	30	50	100	6	6	12	12	18	M	
	2 TBD										

Item	Fiscal Year 2012												Fiscal Year 2013																	
	Calendar Year 2012												Calendar Year 2013																	
	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
G881	2008	MC1	487.0	487.0	0																									0
	2009	MC2	95.0	55.0	40																									40
	2010	MC2	76.0	0	76.0	4.0	11.0	11.0	10.0	10.0	10.0	10.0	10.0																0	

Item	Fiscal Year 2014												Fiscal Year 2015																	
	Calendar Year 2014												Calendar Year 2015																	
	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
G881	2008	MC1	487.0	487.0	0																									0
	2009	MC2	95.0	0.55	0.40	11.0	11.0	11.0	7.0																					0
	2010	MC2	76.0	76.0	0																									0

REMARKS:

BLIN: 146800

Exhibit P-21  
Production Schedule







Exhibit P-21, Production Schedule Date: MAY 2009

Appropriation Code/Budget Activity/Serial Number: Procurement of Ammunition, Navy and Marine Corps/2/Ammunition Weapon System P-1 Line Item Nomenclature: (146800) DODIC: L594, SIMULATOR PROJ GNG BURST M115A2

Item	Manufacturer's Name and Location	PRODUCTION RATE			PROCUREMENT LEADTIMES					
		MSR	ECON	MAX	ALT Prior to Oct 1	ALT After Oct 1	Initial Mfg PLT	Reorder Mfg PLT	Total	Unit of Measure
L594	1 GRUCCI FIREWORKS, RADFORD, VA	5	30	70	6	8	12	15	26	K
	2 TBD	5	30	70						

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
L594	2008	MC1	275.5	0	275.5							A																		275.5
	2009	MC1	186.4	0	186.4																		A							186.4
	2010	MC2	25.4	0	25.4																									25.4

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
L594	2008	MC1	275.5	0	275.5												19.0	35.0	35.0	35.0	24.0	31.0	35.0	10.0	15.0	35.0	1.5			0
	2009	MC1	186.4	0	186.4																									186.4
	2010	MC2	25.4	0	25.4							A																		25.4

REMARKS:

BLIN: 146800

Exhibit P-21  
Production Schedule

Exhibit P-21, Production Schedule	Date: MAY 2009
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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 Nomenclature: (146800) DODIC: L594, SIMULATOR PROJ GNG BURST M115A2
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Item	Manufacturer's Name and Location	PRODUCTION RATE			PROCUREMENT LEADTIMES						Unit of Measure
		MSR	ECON	MAX	ALT Prior to Oct 1	ALT After Oct 1	Initial Mfg PLT	Reorder Mfg PLT	Total		
L594	1 GRUCCI FIREWORKS, RADFORD, VA	5	30	70	6	8	12	15	26	K	
	2 TBD	5	30	70							

Item	Fiscal Year 2012												Fiscal Year 2013																	
	Calendar Year 2012												Calendar Year 2013																	
	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
L594	2008	MC1	275.5	275.5	0																									0
	2009	MC1	186.4	0	186.4								19	35.0	35.0	35.0	35.0	27.4												0
	2010	MC2	25.4	0	25.4			2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	3.4												0

Item	Fiscal Year 2014												Fiscal Year 2015																	
	Calendar Year 2014												Calendar Year 2015																	
	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
L594	2008	MC1	275.5	275.5	0																									0
	2009	MC1	186.4	186.4	0																									0
	2010	MC2	25.4	25.4	0																									0

REMARKS:

BLIN: 146800

Exhibit P-21  
Production Schedule





Exhibit P-40, Budget Item Justification	Date: MAY 2009
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Appropriation Code/Budget Activity/Serial Number: Procurement of Ammunition, Navy and Marine Corps/2/Ammunition	P-1 Item Nomenclature: (1471) ROCKETS, ALL TYPES
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Program Element for Code B Items:	Other Related Program Elements
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	ID Code	FY 2008	FY 2009	FY 2010 Baseline	FY 2010 OCO	FY 2010 Total				
Proc Qty										
Gross Cost	A	47.748	31.390	13.948	8.117	22.065				

Description:

The Cartridge and Launcher, 84mm M136 AT-4 (DODIC C995) is mainly employed against armored personnel carriers. However, it can be used against battle tanks when fired at the flanks or rear. It can also be 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 Cartridge and Launcher, 84mm M136 AT-4, Confined Space (DODIC CA30) is mainly employed against armored personnel carriers. However, it also can be fired from an enclosed space. It can also be employed as an assault weapon against bunkers, field fortifications, and other hard-point positions. Issued as one round of ammunition, the AT-4 confined space round is a self-contained, lightweight, disposable weapon.

The M72AS Trainer Rocket (DODIC HA21) is a 21mm Sub-Caliber practice rocket that fully simulates the M72A7 Tactical Rocket. The Trainer Rocket is used with the M72AS Trainer Launcher (E5002VIIB) which is the same tube as the Tactical Rocket but contains an insert for use with the 21mm sub-caliber munition.

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

The Rocket, 83mm High-Explosive Anti-Armor (HEAA) MK6 Mod 0 (SMAW) (DODIC HX06) is designed especially for use against main battle tanks and other armored vehicles. The rocket is an unguided, high explosive anti-armor rocket contained in a disposable one-shot rocket container.

The Rocket, 83mm Common Practice (CP) (SMAW) (DODIC HX07) Rocket is designed as a practice round for DODICs HX05, HA34 and HX06 SMAW rockets.

The M72A7 Tactical Rocket, High Explosive, (DODIC M72AS) is a lightweight, single shot, disposable weapon optimized to defeat lightly armored vehicles and other hard targets at close combat ranges.

The Rocket Practice, 21mm M72AS Insert. M72 LAW Trainer (DODIC HA46)



Exhibit P-5, Cost Analysis			Weapon System			Date: MAY 2009						
Appropriation Code/Budget Activity/Serial Number: Procurement of Ammunition, Navy and Marine Corps/2/Ammunition			ID Code: A	P-1 Line Item Nomenclature: (1471) ROCKETS, ALL TYPES								
	FY08			FY09			FY10 Baseline			FY10 OCO		
	Total Cost	Qty	Unit Cost	Total Cost	Qty	Unit Cost	Total Cost	Qty	Unit Cost	Total Cost	Qty	Unit Cost
WBS COST ELEMENTS												
HARDWARE												
HA21, ROCKET, TRAINER M72AS 21MM												
COMPLETE ROUND	13.297	193,571	68.69	12.955	178,000	72.78	1.062	13,643	77.84	2.516	32323	77.84
HA29, ROCKET, 66MM HE M72A7 W/GRAZE												
COMPLETE ROUND	29.807	12,903	2310.05	10.727	4515	2375.83	7.498	3063	2448.04	5.601	2288	2448.04
PRODUCT												
PRODUCTION ENGINEERING	0.259			0.053			0.002					
TOTAL												
	43.363			23.735			8.562			8.117		







Exhibit P-40, Budget Item Justification	Date: MAY 2009
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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	FY 2008	FY 2009	FY 2010	FY 2010 OCO	FY 2010 TOTAL				
Proc Qty										
Gross Cost	A	156.541	180.619	57.948	81.975	139.923				

**Description:**

The Projectile, 155mm Illuminating M485A2 (DODIC D505) is a separate loading artillery projectile that consists of a hollow steel shell with an illuminant canister, a canister expelling charge in the projectile nose, and a drogue parachute in the base, this projectile is fired from the 155mm M198 and M777 Towed Howitzers. The projectile uses a Mechanical Time fuze.

The Projectile, 155mm High Explosive (HE) M795 (DODIC D529) is fired from the 155mm M198 Howitzer and is compatible with the M777 Light Weight 155 Howitzer. It is used to provide conventional support fires and provides an increase in range, lethality, and accuracy.

The Projectile, 155mm High Explosive (HE) M107 Series (DODIC D544) is a separate loading projectile fired from the M198 and M777 Towed Howitzers. It is used to provide conventional support fires for infantry maneuver units.

The Projectile, 155mm Smoke White Phosphorus (WP) M110A2 (DODIC D550) is a separate loading projectile used to provide smoke for marking purposes and can be used to provide screening of mechanized or infantry maneuver. The M110A2 projectile is fired from the M198 and M777 Towed Howitzers. A point detonating fuze is normally used with this projectile.

Exhibit P-40, Budget Item Justification, Continued	Date: MAY 2009
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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	FY 2008	FY 2009	FY 2010	FY 2010 OCO	FY 2010 TOTAL					Total Program
Proc Qty											
Gross Cost	A	156.541	180.619	57.948	81.975	139.923					

The M231 Modular Artillery Charge System (MACS)(DODIC DA12) is a propelling charge for the 155mm family of artillery projectiles. The M231 is used at lower zones (1 or 2 increments at a time) and is based on the classical unicharge design, i.e. bi-directional center core ignition, granular propellant contained in a rigid combustible case. MACS will offer improvements in logistics, range, and simplicity when compared to existing bag propellants (M203 series, M119 series, M3 series and M4 series).

The M232 Modular Artillery Charge System (MACS) (DODIC DA13) is a propelling charge for the 155mm family of artillery projectiles. The M232 is used at higher zones (3, 4, 5 or 6 increments at a time) and is based on the classical unicharge design, i.e. bi-directional center core ignition, granular propellant contained in a rigid combustible case. MACS will offer improvements in logistics, range, and simplicity when compared to existing bag propellants (M203 series, M119 series and M4 series).

The Excalibur 155mm (DODIC DA39/DA45) Precision Guided Extended Range Artillery Projectile, also known as the M982 ER DPICM (Extended Range Dual Purpose Improved Conventional Munitions) Projectile, is a smart munition. It provides capability to attack all three key target sets, soft and armored vehicles, and reinforced bunkers, out to ranges exceeding current 155mm family of artillery munitions.

Exhibit P-5, Cost Analysis			Weapon System			Date: MAY 2009						
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	FY08			FY09			FY10			FY10 OCO		
	Total Cost	Qty	Unit Cost	Total Cost	Qty	Unit Cost	Total Cost	Qty	Unit Cost	Total Cost	Qty	Unit Cost
HARDWARE												
D505, PROJ, 155MM, M485A2, ILLUM												
LOAD, ASSEMBLE & PACK (LAP)				1.556	8,111	191.79						
*UNIVERSAL LIFTING PLUG(EA)				0.080	8,274	9.69						
CANDLE				2.790	8,436	330.69						
CANISTER, BASE ASSY				0.256	8,193	31.26						
CANISTER, MPTS ASSY				0.895	8,193	109.19						
DELAY ELEMENT				0.542	8,517	63.67						
GROMMET (EA)				0.054	8,355	6.50						
PARACHUTE, DROGUE ASSY				0.269	8,193	32.82						
PARACHUTE, DROGUE SUPPORTS				0.014	8,193	1.67						
PARACHUTE, MAIN				0.467	8,193	57.02						
PARACHUTE, MAIN SUPPORTS				0.087	33,256	2.61						
PROJ BODY 155MM M485				2.830	8,274	342.04						
D529, PROJ, 155MM, M795, HE EX RANGE												
LOAD, ASSEMBLE & PACK (LAP)	13.196	132,073	99.92	7.025	89,458	78.53	1.925	18,890	101.94	2.277	22,336	101.94
LIFTING PLUGS	0.717	119,802	5.99	0.840	91,247	9.21	0.178	19,268	9.26	0.211	22,783	9.26
PROJ M795 MPTS	43.691	134,715	324.32	29.358	91,247	321.74	6.533	19,268	339.08	7.725	22,783	339.08
SUPPLEMENTAL CHARGES	1.032	185,534	5.56	0.508	91,247	5.57	0.108	19,268	5.61	0.128	22,783	5.61
TNT, M795	11.305	2,629,099	4.30	6.264	2,683,740	2.33	2.437	566,693	4.30	2.881	670,087	4.30
WOODEN PALLETS	1.054	16,048	65.68	0.716	11,182	64.03	0.157	2,361	66.64	0.186	2,792	66.64
D544, PROJ, 155MM, M107, HE												
LOAD, ASSEMBLE & PACK (LAP)				1.260	14,653	86.00						
COMP B TYPE I GRADE A(LB)				0.771	333,796	2.31						
PLUG, SHOCK ATTENUATING				0.108	15,020	7.21						
SUPPLEMENTAL CHARGE				0.205	14,947	13.74						
GROMMET (EA)				0.028	15,093	1.86						
PROJ M107 MPTS				2.430	14,947	162.55						
INSENSITIVE RDX				1.854	228,587	8.11						

Exhibit P-5, Cost Analysis Continued			Weapon System			Date: MAY 2009						
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	FY08			FY09			FY10			FY10 OCO		
	Total Cost	Qty	Unit Cost	Total Cost	Qty	Unit Cost	Total Cost	Qty	Unit Cost	Total Cost	Qty	Unit Cost
D550, PROJ, 155MM, M110A2, SMOKE WP												
LOAD, ASSEMBLE & PACK (LAP)	4.281	18,192	235.34				5.658	20,753	272.61	4.800	17,608	272.61
*TNT TYPE I FLAKE(LB)	0.009	3,888	2.26				0.011	4,435	2.50	0.009	3,763	2.50
*UNIVERSAL LIFTING PLUG(EA)	0.168	18,738	8.95				0.204	21,376	9.58	0.174	18,136	9.58
CASE PROJ BURSTER M1E1	0.997	18,556	53.71				1.474	21,169	69.62	1.250	17,960	69.62
CHG BSTR M54A1 ASSY(EA)	1.958	18,738	104.50				2.376	21,376	111.13	2.015	18,136	111.13
CYCLOTOL 75/25 TYPE 1	0.246	33,474	7.36				0.435	38,186	11.40	0.369	32,399	11.40
GROMMET(EA)	0.022	18,738	1.17				0.039	21,584	1.84	0.034	18,312	1.84
PROJ 155MM WP M110A2 MPTS(EA)	4.523	18,556	243.76				5.706	21,169	269.53	4.841	17,960	269.53
DA12, CHG, 155MM, M231, MOD ARTY CHG SYS												
LAP, M231 MACS				5.571	318,182	17.51	1.085	61,492	17.64	6.023	341,468	17.64
BLACK POWDER, M231				0.278	19,886	14.00	0.053	3,843	13.77	0.294	21,342	13.77
COMBUSTIBLE CASE SETS				10.127	327,727	30.90	2.122	63,336	33.50	11.782	351,713	33.50
IGNITION SYSTEM PROPELLANT				0.183	20,364	8.97	0.029	3,959	7.40	0.163	21,982	7.40
LAP CONTAINERS				4.096	81,932	50.00	0.634	15,834	40.02	3.519	87,928	40.02
PROPELLANT, SINGLE BASE, M231				5.334	1,113,637	4.79	1.005	215,221	4.67	5.581	1,195,139	4.67
DA13, CHG, 155MM, M232A1, MOD ARTY CHG SYS												
LAP, M232, MACS	7.415	422,850	17.54	14.443	646,200	22.35	3.955	175,631	22.52	3.564	158,269	22.52
BLACK POWDER CLASS 1 (LB)	0.353	26,138	13.50	0.549	39,200	14.00	0.147	10,652	13.77	0.132	9,599	13.77
COMBUSTIBLE CASE SETS	10.707	435,744	24.57	21.253	665,616	31.93	6.060	180,902	33.50	5.461	163,018	33.50
IGNITION SYSTEM SPHERIOCAL PROPELLANT	0.190	27,314	6.95	0.373	41,600	8.97	0.084	11,309	7.40	0.075	10,191	7.40
LAP CONTAINERS	3.633	87,280	41.63	6.657	133,140	50.00	1.563	36,184	43.20	1.409	32,606	43.20
PROPELLANT, M232 TRIPLE BASE	24.587	2,116,000	11.62	36.607	3,231,000	11.33	10.778	878,420	12.27	9.713	791,580	12.27
DA39/DA45, PROJ, 155MM, XM982, EXT RNG,												
COMPLETE ROUND	17.881	195	92000.00	2.057	17	121000.00						
CONTAINER PA125 NEW PRODUCTION(EA)	0.195	195	1000.00	0.017	17	1000.00						
PRODUCTION SUPPORT COSTS												
ACCEPTANCE TESTING	3.799			6.741			1.215			4.153		
PRODUCTION ENGINEERING	3.726			4.456			1.266			2.240		
QUALITY ASSURANCE	0.263			1.659			0.711			0.966		
NONRECURRING												
FORCE PROTECTION				0.037								
GOVERNMENT FURNISHED MATERIAL				-1.026								
REWORK	0.593											
TOTAL	156.541			180.619			57.948			81.975		

BLIN: 147300

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Exhibit P-5  
Cost Analysis



Exhibit P-5a, Procurement History and Planning Continued				Weapon System			Date: MAY 2009			
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	RFP Issue Date	Contract Method and Type	Contractor and Location	Award Date	Date of First Delivery	Tech Data Available Now?	Date Revisions Available
D529, PROJ, 155MM, M795, HE EX RANGE LOAD, ASSEMBLE & PACK (LAP)										
FY 2008	132,073	99.92	JMC, ROCK ISLAND, IL	SEP 04	C/FP	AMERICAN ORDNANCE LLC,	OCT 08	DEC 09	YES	
FY 2009	89,458	78.53	JMC, ROCK ISLAND, IL	SEP 04	C/FP	MIDDLETOWN, IA	APR 09	DEC 10	YES	
FY 2010	41,226	101.94	JMC, ROCK ISLAND, IL	SEP 04	C/FP	AMERICAN ORDNANCE LLC,	MAR 10	DEC 11	YES	
LIFTING PLUGS										
FY 2008	119,802	5.99	JMC, ROCK ISLAND, IL	SEP 04	C/FP	MEDICO INDUSTRIES, WILKES BARR	OCT 08	JUL 09	YES	
FY 2009	91,247	9.21	JMC, ROCK ISLAND, IL	SEP 04	C/FP	TO BE DETERMINED (TBD)	JUN 09	JAN 10	YES	
FY 2010	42,051	9.26	JMC, ROCK ISLAND, IL	SEP 04	C/FP	TO BE DETERMINED (TBD)	MAR 10	JAN 11	YES	
PROJ M795 MPTS										
FY 2008	134,715	324.32	JMC, ROCK ISLAND, IL	SEP 04	C/FP	GDOTS, SCRANTON, PA	FEB 08	MAY 08	YES	
FY 2009	91,247	321.74	JMC, ROCK ISLAND, IL	SEP 04	C/FP	GDOTS, SCRANTON, PA	FEB 09	MAY 09	YES	
FY 2010	42,051	339.08	JMC, ROCK ISLAND, IL	SEP 04	C/FP	GDOTS, SCRANTON, PA	MAR 10	JUN 10	YES	
SUPPLEMENTAL CHARGES										
FY 2008	185,534	5.56	JMC, ROCK ISLAND, IL	SEP 04	C/FP	MCALESTER AAP, OK	APR 08	JUL 08	YES	
FY 2009	91,247	5.57	JMC, ROCK ISLAND, IL	SEP 04	C/FP	MCALESTER AAP, OK	FEB 09	MAY 09	YES	
FY 2010	42,051	5.61	JMC, ROCK ISLAND, IL	SEP 04	C/FP	MCALESTER AAP, OK	MAR 10	JUN 10	YES	
TNT TYPE I GRADE A(LB)										
FY 2008	2,629,099	4.30	JMC, ROCK ISLAND, IL	SEP 04	C/FP	ATK, RADFORD, VA	JUN 09	SEP 09	YES	
FY 2009	2,683,740	2.33	JMC, ROCK ISLAND, IL	SEP 04	C/FP	ATK, RADFORD, VA	JUN 09	SEP 09	YES	
FY 2010	1,236,780	4.30	JMC, ROCK ISLAND, IL	SEP 04	C/FP	ATK, RADFORD, VA	MAR 09	JUN 09	YES	
WOODEN PALLETS										
FY 2008	16,048	65.68	JMC, ROCK ISLAND, IL	SEP 04	C/FP	KNOX COUNTY ASSOC, KNOX, KY	JUL 08	OCT 08	YES	
FY 2009	11,182	64.03	JMC, ROCK ISLAND, IL	SEP 04	C/FP	KNOX COUNTY ASSOC, KNOX, KY	JAN 09	APR 09	YES	
FY 2010	5,153	66.64	JMC, ROCK ISLAND, IL	SEP 04	C/FP	KNOX COUNTY ASSOC, KNOX, KY	MAR 10	JUN 10	YES	

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Exhibit P-5a, Procurement History and Planning Continued				Weapon System			Date: MAY 2009			
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	RFP Issue Date	Contract Method and Type	Contractor and Location	Award Date	Date of First Delivery	Tech Data Available Now?	Date Revisions Available
D544, PROJ, 155MM, M107, HE LOAD, ASSEMBLE & PACK (LAP)										
FY 2009	14,653	86.00	JMC, ROCK ISLAND, IL	UNKNOWN	C/FP	AMERICAN ORDNANCE, MIDDLETON,	MAR 09	MAR 10	YES	
COMP B TYPE I GRADE A(LB)										
FY 2009	333,796	2.31	JMC, ROCK ISLAND, IL	UNKNOWN	N/A	STOCK ISSUE	N/A	N/A	YES	
PLUG, SHOCK ATTENUATING										
FY 2009	15,020	7.21	JMC, ROCK ISLAND, IL	UNKNOWN	C/FP	CORONET MACHINERY CORP, YONKER	MAR 09	JUL 09	YES	
INSENSITIVE RDX										
FY 2009	228,587	8.11	JMC, ROCK ISLAND, IL	UNKNOWN	C/FP	TO BE DETERMINED (TBD)	MAR 09	NOV 09	YES	
SUPPLEMENTAL CHARGE										
FY 2009	14,947	13.74	JMC, ROCK ISLAND, IL	UNKNOWN	C/FP	TO BE DETERMINED (TBD)	JUL 09	JAN 10	YES	
GROMMET(EA)										
FY 2009	15,093	1.86	JMC, ROCK ISLAND, IL	UNKNOWN	C/FP	LC INDUSTRIES HAZELHURST, MS	MAR 09	JUL 09	YES	
PROJ M107 MPTS										
FY 2009	14,947	162.55	JMC, ROCK ISLAND, IL	UNKNOWN	C/FP	GDOTS, SCRANTON, PA (SCAAP)	MAR 09	SEP 09	YES	
D550, PROJ, 155MM, M110A2, SMOKE WP LOAD, ASSEMBLE & PACK (LAP)										
FY 2008	18,192	235.34	JMC, ROCK ISLAND, IL	UNKNOWN	SS/FP	PINE BLUFF ARSENAL, PINE BLUFF, AR	MAR 08	OCT 09	YES	
FY 2010	38,361	272.61	JMC, ROCK ISLAND, IL	UNKNOWN	SS/FP	PINE BLUFF ARSENAL, PINE BLUFF, AR	MAR 10	JUL 11	YES	
*TNT TYPE I FLAKE(LB)										
FY 2008	3,888	2.26	N/A	UNKNOWN	N/A	STOCK ISSUE	N/A	N/A	YES	
FY 2010	8,198	2.50	JMC, ROCK ISLAND, IL	UNKNOWN	C/FP	TO BE DETERMINED (TBD)	N/A	N/A	YES	
*UNIVERSAL LIFTING PLUG(EA)										
FY 2008	18,738	8.95	JMC, ROCK ISLAND, IL	UNKNOWN	C/OP	CORONET MACHINERY CORP, YONKER	MAR 08	SEP 08	N/A	
FY 2010	39,512	9.58	JMC, ROCK ISLAND, IL	UNKNOWN	C/OP	CORONET MACHINERY CORP, YONKER	DEC 09	SEP 10	YES	
CASING BSTR(EA)										
FY 2008	18,556	53.71	JMC, ROCK ISLAND, IL	UNKNOWN	C/FP	GDOTS, SCRANTON, PA	JUL 08	APR 09	N/A	
FY 2010	39,129	69.62	JMC, ROCK ISLAND, IL	UNKNOWN	C/OP	TO BE DETERMINED (TBD)	MAR 10	DEC 10	YES	
CHG BSTR M54A1 ASSY(EA)										
FY 2008	18,738	104.50	JMC, ROCK ISLAND, IL	UNKNOWN	C/FP	TO BE DETERMINED (TBD)	OCT 08	MAR 09	N/A	
FY 2010	39,512	111.13	JMC, ROCK ISLAND, IL	UNKNOWN	C/OP	TO BE DETERMINED (TBD)	MAR 10	MAR 11	YES	



Exhibit P-5a, Procurement History and Planning Continued					Weapon System		Date: MAY 2009				
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	RFP Issue Date	Contract Method and Type	Contractor and Location	Award Date	Date of First Delivery	Tech Data Available Now?	Date Revisions Available	
CYCLOTOL 75/25 TYPE 1											
FY 2008	33,474	7.36	N/A	UNKNOWN	N/A	STOCK ISSUE	N/A	N/A	YES		
FY 2010	70,585	11.40	JMC, ROCK ISLAND, IL	UNKNOWN	C/FP	TO BE DETERMINED (TBD)	N/A	N/A	YES		
GROMMET(EA)											
FY 2008	18,738	1.17	JMC, ROCK ISLAND, IL	UNKNOWN	SS/FP	LC INDUSTRIES HAZELHURST, MS	APR 08	OCT 08	N/A		
FY 2010	39,896	1.84	JMC, ROCK ISLAND, IL	UNKNOWN	SS/FP	LC INDUSTRIES HAZELHURST, MS	APR 10	OCT 10	YES		
PROJ 155MM WP M110A2 MPTS(EA)											
FY 2008	18,556	243.76	JMC, ROCK ISLAND, IL	UNKNOWN	C/FP	GDOTS, SCRANTON, PA	JUL 08	APR 09	N/A		
FY 2010	39,129	269.53	JMC, ROCK ISLAND, IL	UNKNOWN	C/OP	TO BE DETERMINED (TBD)	MAR 10	DEC 10	YES		
DA12, CHG, 155MM, M231, MOD											
ARTY CHG SYS											
LAP, M231 MACS											
FY 2009	318,182	17.51	PICATINNY ARSENAL, NJ	UNKNOWN	C/FP/OP	GENERAL DYNAMICS, BURLINGTON, VT	FEB 09	DEC 09	YES		
FY 2010	402,960	17.64	PICATINNY ARSENAL, NJ	UNKNOWN	C/FP/OP	GENERAL DYNAMICS, BURLINGTON, VT	JAN 10	JAN 11	YES		
BLACK POWDER, M231											
FY 2009	19,886	14.00	JMC, ROCK ISLAND, IL	UNKNOWN	SS/OP	GOEX INC, DAYLINE, LA	MAR 09	MAR 10	NO		
FY 2010	25,185	13.77	JMC, ROCK ISLAND, IL	UNKNOWN	SS/OP	GOEX INC, DAYLINE, LA	FEB 10	FEB 11	NO		
COMBUSTIBLE CASE SETS											
FY 2009	327,727	30.90	PICATINNY ARSENAL, NJ	UNKNOWN	CM-2/FP	ARMTEC, COACHELLA, CA	APR 09	JUN 09	NO		
FY 2010	415,049	33.50	PICATINNY ARSENAL, NJ	UNKNOWN	CM-3/FP	ARMTEC, COACHELLA, CA	FEB 10	APR 10	NO		

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Exhibit P-5a

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Procurement History and Planning

Exhibit P-5a, Procurement History and Planning Continued				Weapon System			Date: MAY 2009			
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	RFP Issue Date	Contract Method and Type	Contractor and Location	Award Date	Date of First Delivery	Tech Data Available Now?	Date Revisions Available
IGNITION SYSTEM PROPELLANT										
FY 2009	20,364	8.97	PICATINNY ARSENAL, NJ	UNKNOWN	SS/OP	GD ST MARKS POWDER, ST ST MARKS, FL	FEB 09	MAY 09	NO	
FY 2010	25,941	7.40	PICATINNY ARSENAL, NJ	UNKNOWN	C/FP	TO BE DETERMINED (TBD)	FEB 10	MAY 10	NO	
LAP CONTAINERS										
FY 2009	81,932	50.00	PICATINNY ARSENAL, NJ	UNKNOWN	C/FP	CONCO, LOUISVILLE, KY	JUL 09	NOV 09	NO	
FY 2010	103,762	40.02	PICATINNY ARSENAL, NJ	UNKNOWN	SS/OP	CONCO, LOUISVILLE, KY	FEB 10	JUN 10	NO	
PROPELLANT, SINGLE BASE, M231										
FY 2009	1,113,637	4.79	JMC, ROCK ISLAND, IL	UNKNOWN	SS/OP	ATK, RADFORD, VA	SEP 09	MAR 10	NO	
FY 2010	1,410,360	4.67	JMC, ROCK ISLAND, IL	UNKNOWN	SS/OP	ATK, RADFORD, VA	FEB 10	AUG 10	NO	
DA13, CHG, 155MM, M232A1, MOD A RTY CHG SYS										
LAP, M232, MACS										
FY 2008	422,850	17.54	PICATINNY ARSENAL, NJ	UNKNOWN	C/FP	GDOTS	DEC 08	OCT 09	NO	
FY 2009	646,200	22.35	PICATINNY ARSENAL, NJ	UNKNOWN	C/FP/OP	GDOTS	FEB 09	DEC 09	NO	
FY 2010	333,900	22.52	PICATINNY ARSENAL, NJ	UNKNOWN	C/FP/OP	GDOTS	JAN 10	DEC 10	NO	
BLACK POWDER CLASS 1 (LB)										
FY 2008	26,138	13.50	JMC, ROCK ISLAND, IL	UNKNOWN	SS/OP	GOEX INC, DAYLINE, LA	MAR 08	MAR 09	NO	
FY 2009	39,200	14.00	JMC, ROCK ISLAND, IL	UNKNOWN	SS/OP	GOEX INC, DAYLINE, LA	MAR 09	MAR 10	NO	
FY 2010	20,250	13.77	JMC, ROCK ISLAND, IL	UNKNOWN	SS/OP	GOEX INC, DAYLINE, LA	FEB 10	FEB 11	NO	

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Exhibit P-5a  
Procurement History and Planning

Exhibit P-5a, Procurement History and Planning Continued				Weapon System			Date: MAY 2009				
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	RFP Issue Date	Contract Method and Type	Contractor and Location	Award Date	Date of First Delivery	Tech Data Available Now?	Date Revisions Available	
COMBUSTIBLE CASE SETS											
FY 2008	435,744	24.57	PICATINNY ARSENAL, NJ	UNKNOWN	CM-1/FP	ARMTEC, COACHELLA, CA	SEP 08	NOV 08	NO		
FY 2009	665,616	31.93	PICATINNY ARSENAL, NJ	UNKNOWN	CM-2/FP	ARMTEC, COACHELLA, CA	APR 09	JUN 09	NO		
FY 2010	343,920	33.50	PICATINNY ARSENAL, NJ	UNKNOWN	CM-3/FP	ARMTEC, COACHELLA, CA	FEB 10	APR 10	NO		
IGNITION SYSTEM SPHERIOCAL											
PROPELLANT											
FY 2008	27,314	6.95	PICATINNY ARSENAL, NJ	UNKNOWN	SS/OP	GD ST MARKS POWDER, ST ST MARKS, FL	MAR 08	MAY 08	NO		
FY 2009	41,600	8.97	PICATINNY ARSENAL, NJ	UNKNOWN	SS/OP	GD ST MARKS POWDER, ST ST MARKS, FL	FEB 09	MAY 09	NO		
FY 2010	21,500	7.40	PICATINNY ARSENAL, NJ	UNKNOWN	C/FP	TO BE DETERMINED (TBD)	FEB 10	MAY 10	NO		
LAP CONTAINERS											
FY 2008	87,280	41.63	PICATINNY ARSENAL, NJ	UNKNOWN	SS/OP	CONCO, LOUISVILLE, KY	MAR 08	JUL 08	NO		
FY 2009	133,140	50.00	PICATINNY ARSENAL, NJ	UNKNOWN	C/FP	TO BE DETERMINED (TBD)	JUL 09	NOV 09	NO		
FY 2010	68,790	43.20	PICATINNY ARSENAL, NJ	UNKNOWN	SS/OP	TO BE DETERMINED (TBD)	FEB 10	JUN 10	NO		
PROPELLANT, TRIPLE BASE M232											
FY 2008	2,116,000	11.62	PICATINNY ARSENAL, NJ	UNKNOWN	SS/OP	CANADIAN COMM, CORP, CA	MAY 08	FEB 09	NO		
FY 2009	3,231,000	11.33	PICATINNY ARSENAL, NJ	UNKNOWN	SS/OP	CANADIAN COMM, CORP, CA	FEB 09	NOV 09	NO		
FY 2010	1,670,000	12.27	PICATINNY ARSENAL, NJ	UNKNOWN	SS/OP	CANADIAN COMM, CORP, CA	FEB 10	NOV 10	NO		
DA39, PROJ, 155MM , XM982,											
EXT RANGE											
COMPLETE ROUND											
FY 2008	195	92000.00	PICATINNY ARSENAL, NJ	UNKNOWN	OP	RAYTHEON, TUCSON, AZ	JUN 08	JAN 10	YES		
FY 2009	17	121000.00	PICATINNY ARSENAL, NJ	UNKNOWN	OP	RAYTHEON, TUCSON, AZ	JUN 09	DEC 10	YES		
CONTAINER SYSTEM											
FY 2008	195	1000.00	PICATINNY ARSENAL, NJ	UNKNOWN	OP	CONCO, LOUISVILLE, KY	JUN 08	MAR 10	YES		
FY 2009	17	1000.00	PICATINNY ARSENAL, NJ	UNKNOWN	OP	CONCO, LOUISVILLE, KY	JUN 09	OCT 10	YES		



Exhibit P-21, Production Schedule Date: MAY 2009

Appropriation Code/Budget Activity/Serial Number: Procurement of Ammunition, Navy and Marine Corps/2/Ammunition Weapon System: P-1 Line Item Nomenclature: (147300) DODIC: D529, PROJ, 155MM, M795, HE EX RANGE

Item	Manufacturer's Name and Location	PRODUCTION RATE			PROCUREMENT LEADTIMES						Unit of Measure
		MSR	ECON	MAX	ALT Prior to Oct 1	ALT After Oct 1	Initial Mfg PLT	Reorder Mfg PLT	Total		
D529	1 TO BE DETERMINED (TBD)	5	10	20	12	6	12	14	18	K	

Item	Fiscal Year 2008												Fiscal Year 2009																	
	Calendar Year 2008												Calendar Year 2009																	
	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 O C T
D529	2007	M C1	4.00	0.00	4.00												4.00													0.00
	2008	M C1	132.07	0.00	132.07												A												132.07	
	2009	M C1	89.45	0.00	89.45																		A						89.45	
	2010	M C1	41.20	0.00	41.20																								41.20	

Item	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
D529	2007	M C1	4.00	4.00	0.00																								0.00
	2008	M C1	132.07	0.00	132.07			10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	16.00	16.07											0.00
	2009	M C1	89.45	0.00	89.45														7.00	7.00	7.00	7.00	7.00	7.00	7.00	8.00	8.00	8.00	16.45
	2010	M C1	41.20	0.00	41.20							A																41.20	

REMARKS:





Exhibit P-21, Production Schedule Date: MAY 2009

Appropriation Code/Budget Activity/Serial Number: Procurement of Ammunition, Navy and Marine Corps/2/Ammunition Weapon System: P-1 Line Item Nomenclature: (147300) DODIC: D550, PROJ, 155MM, M110A2, SMOKE WP

Item	Manufacturer's Name and Location	PRODUCTION RATE			PROCUREMENT LEADTIMES					
		MSR	ECON	MAX	ALT Prior to Oct 1	ALT After Oct 1	Initial Mfg PLT	Reorder Mfg PLT	Total	Unit of Measure
D550	1 PINE BLUFF ARSENAL, PINE BLUFF, AR	8	10	17	8	6	16	16	24	K

Fiscal Year 2008 Fiscal Year 2009

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
	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
D550	2006	MC1	7.00	0.00	7.00																									0.00
	2008	MC1	18.00	0.00	18.00						A																			0.00
	2010	MC1	38.00	0.00	38.00																									0.00

Fiscal Year 2010 Fiscal Year 2011

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
	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
D550	2006	MC1	7.00	0.00	7.00	7.00																								0.00
	2008	MC1	18.00	0.00	18.00	10.00	8.00																							0.00
	2010	MC1	38.00	0.00	38.00							A															10.00	10.00	11.00	7.00

REMARKS:















Exhibit P-40, Budget Item Justification	Date: MAY 2009
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Appropriation Code/Budget Activity/Serial Number: Procurement of Ammunition, Navy and Marine Corps/2/Ammunition	P-1 Item Nomenclature: (147500) EXPEDITIONARY FIGHTING VEHICLE
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Program Element for Code B Items:	Other Related Program Elements
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	ID Code	FY 2008	FY 2009	FY 2010	FY 2010 OCO	FY 2010 TOTAL				
Proc Qty										
Gross Cost	A	0.004	0.000	0.000	0.000	0.000				

Description:

DODIC AA89: (Formerly interim DODIC "B002") The High Explosive - Tracer (HE-T) is the Expeditionary Fighting Vehicles (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 Armor Piercing Fin Stabilized Discarding Sabot - Traced (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 high explosive round. The combination of the hardened nose and a base fuze functioning with a slight delay, allows the HE to penetrate inside hardened targets.





Exhibit P-40, Budget Item Justification	Date: MAY 2009
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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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Program Element for Code B Items:	Other Related Program Elements
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	ID Code	FY 2008	FY 2009	FY 2010 BASELINE	FY 2010 OCO	FY 2010 TOTAL				
Proc Qty										
Gross Cost	A	15.543	32.451	14.886	9.241	24.127				

**Description:**

The Cap, Blasting Electric MK17 MOD 1-HERO SAFE- (DODIC DWFP) 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.

The Charge, Demolition Block M112 1-1/4 pound C-4 (DODIC M023) is a general-purpose demolition. It is suitable for underwater use and is particularly effective against steel, concrete, and timber. The charge may be detonated by electric blasting caps, non-electric blasting caps, or detonating cord. Composition C-4 is more powerful than TNT.

The Charge, Demolition Block M118 2 Pound Pentaerythritol Tetranitrate (PETN) (DODIC M024) is a general-purpose demolition. It is suitable for underwater use and is particularly effective against steel, concrete, and timber. This sheet can be cut to any desired shape and may be quickly applied to irregular and curved surfaces. This charge may be detonated by electric blasting caps, non-electric blasting caps, or detonating cord. Each box of the M118 Demolition Blocks comes with 80 blasting cap holders.

The Charge, Demolition Cratering 40-Pound (DODIC M039) is an alternate to the standard ammonium nitrate cratering charge for the destruction of buildings, structures, and fortifications. The charge is composed of approximately 40-pound of H-6 explosive and a .43-pound A-5 composition booster. H-6 explosive is a highly brisant explosive derived from the HBX family. A semicircular handle is also located on the top of the container for handling the charge or for attaching a line when lowering the charge in a hole.

The Cap, Blasting Non-Electric Inert (DODIC M097) is used in training personnel in the correct procedures for safe handling of non-electric blasting caps. The DODIC M097 is approximately 2.3 inches long and .23 inches in diameter. There are two holes drilled through the cap to signify that the cap is inert. A fuse cavity is located in one end of the blasting cap to receive a time safety fuse. The cap is painted black.

BLIN: 150000

Exhibit P-40  
Budget Item Justification

Exhibit P-40, Budget Item Justification, Continued	Date: MAY 2009
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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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Program Element for Code B Items:	Other Related Program Elements
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	ID Code	FY 2008	FY 2009	FY 2010 BASELINE	FY 2010 OCO	FY 2010 TOTAL				
Proc Qty										
Gross Cost	A	15.543	32.451	14.886	9.241	24.127				

The Cap, Blasting Electric Inert (DODIC M098) is used in training personnel in the correct procedures for safe handling of electric blasting caps. The blasting cap is approximately 2.3 inches long and .23-inches in diameter. There are two lead wires approximately 12 feet in length. There are two holes drilled through the cap to signify that the cap is inert. The cap is painted black.

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.

The Charge, Demolition Shaped M3 Series 40-Pound (DODIC M421) is used for penetrating metal, concrete, earth or other materials. This charge consists of approximately 30 lbs. of 50/50 pentolite or 28.3 lbs. of Composition B with a 1.7 lbs. 50/50-pentolite booster. The explosive charge is enclosed in a sheet steel container with a metal cavity liner and a detachable standoff frame assembly. The standoff frame assembly has three legs and is about 15 inches tall.

The Container, Demolition Charge MK7 Mod 7 (DODIC M483) is used as a form or mold in which plastic explosive can be pressed into a linear charge. The container consists of a mild steel body approximately 6.00 inches long and .75 inches wide. The container has a V-shaped cavity to mold the explosive linear charge. The charge is designed to snap together with other MK7 Mod 7 containers to form a charge of the required length.

The Charge, Assembly Demolition M183 Comp C-4 (DODIC M757) is used by assault demolition teams in general demolition operations such as reduction of small obstacles, cutting, breaching, and cratering. The M183 Charge Assembly consists of 16 M112 Demolition Blocks and 4 M15 Priming Assemblies. Each M112 block is composed of 1-1/4 pounds of Composition C-4. The M15 Priming Assembly is a 5-foot length of detonating cord with two plastic M1 Clips and 2 RDX boosters attached. The boosters, which are about 3/4" in diameter and 2-inches in length contain approximately 13.5 grains of RDX.

Charge Demolition Explosive Sheet, 38 ft (DODIC M980) is used in general demolition as a cutting or breaching charge. M980 permits pinpoint metal cutting with minimum explosive loading. The sheet can be cut to provide the length of charge needed.

Exhibit P-40, Budget Item Justification, Continued	Date: MAY 2009
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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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Program Element for Code B Items:	Other Related Program Elements
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	ID Code	FY 2008	FY 2009	FY 2010 BASELINE	FY 2010 OCO	FY 2010 TOTAL				
Proc Qty										
Gross Cost	A	15.543	32.451	14.886	9.241	24.127				

The Charge, Demolition Explosive sheet, 9ft (DODIC M986) is used in general demolition as a cutting or breaching charge. M986 permits pinpoint metal cutting with minimum explosive loading. The sheet can be cut to provide the length of charge needed.

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.

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 300 Grains Per Foot (DODIC MM24) is designed for fast and reliable cutting of materials. The DODIC MM24 will cut steel up to 0.18-inches thick or aluminum up to 0.39-inches thick. MM24 is a continuous explosive core of CH-6 enclosed in a seamless lead sheath. 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 20 Gram Pentaerythritol Tetranitrate (PETN) MK140 Mod 0 (DODIC MM30) is intended to be used as an individual charge, or can be used as a booster for other charges. This charge can be used in all applications where demolitions are required.

BLIN: 150000

Exhibit P-40  
Budget Item Justification

Exhibit P-40, Budget Item Justification, Continued	Date: MAY 2009
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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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Program Element for Code B Items:	Other Related Program Elements
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	ID Code	FY 2008	FY 2009	FY 2010 BASELINE	FY 2010 OCO	FY 2010 TOTAL				
Proc Qty										
Gross Cost	A	15.543	32.451	14.886	9.241	24.127				

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. MM41 is a continuous explosive core of CH-6 enclosed in a seamless lead sheath. 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. MM42 is a continuous explosive core of CH-6 enclosed in a seamless lead sheath. 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 75 Grains Per Foot (DODIC MM44) is designed for fast and reliable cutting of materials. The DODIC MM44 will cut steel up to 0.10-inches thick or aluminum up to 0.16-inches thick. The DODIC MM44 is a continuous explosive core of CH-6 enclosed in a seamless lead sheath. 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 125 Grains Per Foot (DODIC MM45) is designed for fast and reliable cutting of materials. The DODIC MM45 will cut steel up to 0.13-inches thick, or aluminum up to 0.21-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 contains 125 grains per foot of CH-6. The lead sheathing is blue/gray in color and is 6-feet long.

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. MM46 is a continuous explosive core of CH-6 enclosed in a seamless lead sheath. 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 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. MM47 is a continuous explosive core of CH-6 enclosed in a seamless lead sheath. The charge is shaped in the form of an inverted "V" to concentrate an explosive force in a linear cutting action.

Exhibit P-40, Budget Item Justification, Continued	Date: MAY 2009
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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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Program Element for Code B Items:	Other Related Program Elements
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	ID Code	FY 2008	FY 2009	FY 2010 BASELINE	FY 2010 OCO	FY 2010 TOTAL				
Proc Qty										
Gross Cost	A	15.543	32.451	14.886	9.241	24.127				

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. MM48 is a continuous explosive core of CH-6 enclosed in a seamless lead sheath. The charge is shaped in the form of an inverted "V" to concentrate an explosive force in a linear cutting action.

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. The underside of the charge has an adhesive backed tape that adheres to most dry surfaces. This charge contains 600 grains per foot of a commercial plastic bonded explosive.

The Charge, Demolition Low Hazard MK144 Mod 0 1200 Grains Per Foot (DODIC MM52) 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. The underside of the charge has an adhesive backed tape that adheres to most dry surfaces. This charge contains 1200 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. The underside of the charge has an adhesive backed tape that adheres to most dry surfaces. This charge contains 2400 grains per foot of a commercial plastic bonded explosive.

The Charge, Demolition Low Hazard Mk149 Mod 0 5400 Grains Per Foot (DODIC MM54) 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. The underside of the charge has an adhesive backed tape that adheres to most dry surfaces. This charge contains 5400 grains per foot of a commercial plastic bonded explosive.

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.

BLIN: 150000

Exhibit P-40  
Budget Item Justification

Exhibit P-40, Budget Item Justification, Continued	Date: MAY 2009
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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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Program Element for Code B Items:	Other Related Program Elements
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	ID Code	FY 2008	FY 2009	FY 2010 BASELINE	FY 2010 OCO	FY 2010 TOTAL				
Proc Qty										
Gross Cost	A	15.543	32.451	14.886	9.241	24.127				

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. Each assembly contains a spring-loaded firing pin that can be recocked by the sear lever on the trigger mechanism. The MK 54 MOD 0 is used to initiate the MK23, MK24 and MK25 MODS pyrotechnic lead initiators.

The Detonator, four second delay (DODIC MN50) are used in military demolitions, explosive ordnance disposal, minefield clearing, and special applications. The detonator (DODIC MN50) is a linear signal transmission device designed to transmit an energetic signal through shock tube to a specific detonating output. This detonator is designed to be interoperable with munitions, cap wells, detonating cords, high explosives, and lead in lines.

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) containing less than 0.1 grains per foot of HMX with two factory crimped M7 Detonators.

The Booster, Demolition Charge, M152, (DODIC MN69) begin with five grain per foot PETN detonating cord that is figure-eight coiled and integrated to a booster charge containing 13.5 grains of PETN. The assemblies have J-hooks for fast, secure, and reliable connection to detonating cords. Initiation of assemblies is delivered from detonating cord or blasting caps.

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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	ID Code	FY2008	FY2009	FY2010 BASELINE	FY2010 OCO	FY2010 TOTAL				
DWFP, CAP, BLASTING, ELECT, MK17 MOD 1	A	0.000	1.000	0.200	0.000	0.200				
QTY			48590	9429						
ML04, CUTTER POWDER ACTUATED MK23	A	0.000	0.500	0.100	0.000	0.100				
QTY			2805	544						
ML05, CUTTER POWDER ACTUATED MK24	A	0.000	0.500	0.100	0.000	0.100				
QTY			2666	517						
MM24, CHARGE, DEMO, MK 142-0, LOW HAZARD FLEXI	A	0	0.000	0.200	0.000	0.200				
QTY				12150						
MM30, CHARGE, FLEXIBLE 20 GRAM	A	0	0.422	0.400	0	0.4				
QTY			164202	150943						
MM41, CHARGE, DEMO FLSC 30 GR/FT	A	0	0.226	0.200	0	0.2				
QTY			5350	4597						
MM42, CHARGE, DEMO FLSC 40 GR/FT	A	0	0.464	0.130	0	0.13				
QTY			9184	2498						
MM44, CHARGE, DEMO FLSC 75 GR/FT	A	0	1.617	0.1	0	0.1				
QTY			35452	2128						
MM45, CHARGE, DEMO FLSC 125 GR/FT	A	0	0.3	0.1	0	0.1				
QTY			6387	2066						
Subtotal		0.000	5.029	1.530	0.000	1.530				

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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	ID Code	FY2008	FY2009	FY2010 BASELINE	FY2010 OCO	FY2010 TOTAL					
MM46, CHARGE, DEMO FLSC 225 GR/FT	A	0.000	0.422	0.000	0.000	0					
QTY			5339								
MM47, CHARGE, DEMO FLSC 400 GR/FT	A	0.000	0.348	0.000	0.000	0					
QTY			6895								
MM48, CHARGE, DEMO FLSC 600 GR/FT	A	0.000	0.350	0.000	0.000	0					
QTY			6661								
MM51, CHARGE, DEMO FLSC 600 GR/FT	A	0.000	0.300	0.000	0.000	0					
QTY			15881								
MM52, CHARGE, DEMO FLSC 1200 GR/FT	A	0.000	0.400	0.400	0.000	0.400					
QTY			9689	9407							
MM53, CHARGE, DEMO FLSC 2400 GR/FT	A	0.000	0.526	0.400	0.000	0.400					
QTY			14128	10430							
MM54, CHARGE, DEMO FLSC 5400 GR/FT	A	0.000	0.200	0.200	0.000	0.200					
QTY			3299	3203							
MN01, SCENT KIT EXPL DETECT DOG	A	0.033	0.042	0.035	0.000	0.035					
QTY		33	42	35							
MN14, DUAL FIRING DEVICE MK54	A	0.000	0.212	0.000	0.000	0					
QTY			565								
Subtotal		0.033	2.800	1.035	0.000	1.035					





Exhibit P-5, Cost Analysis			Weapon System			Date: MAY 2009						
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								
	FY08			FY09			FY10 BASELINE			FY10 OCO		
	Total Cost	Qty	Unit Cost	Total Cost	Qty	Unit Cost	Total Cost	Qty	Unit Cost	Total Cost	Qty	Unit Cost
WBS COST ELEMENTS												
HARDWARE												
M023, CHARGE, DEMO BLOCK 1 1/4LB C-4												
LOAD, ASSEMBLE & PACK (LAP)	0.521	75,123	6.94									
COMP C-4 CLASS 3(LB)	0.868	99,163	8.75									
M024, CHG DEMO BLOCK PETN												
COMPLETE ROUND				1.175	15,853	74.14	0.757	10,017	75.62			
M039, CHARGE, DEMO 40 LB CRATERING												
LOAD, ASSEMBLE & PACK (LAP)				8.171	15,772	518.05	3.462	8,175	423.47			
* COMP D-2 (LB)				0.690	36,276	19.03	0.313	18,803	16.64			
**GFM** COMP B TYPE I GRADE A(LB)				1.358	587,913	2.31	0.724	304,729	2.37			
ALUMINUM POWDER (LB)				0.327	162,610	2.01	0.194	84,285	2.30			
M097, CAP, BLASTING NON-ELEC INERT												
COMPLETE ROUND				0.067	8,308	8.01	0.180	22,207	8.08			
M098, CAP, BLASTING ELECTRIC INERT												
COMPLETE ROUND				0.200	10,334	19.35	0.200	16,221	12.33			
M174, CARTRIDGE, IMPULSE .50 CALIBER												
COMPLETE ROUND				0.556	32,998	16.85						
M421, CHARGE, DEMO SHAPED 40 LB												
LOAD, ASSEMBLE & PACK (LAP)				4.178	5,436	768.60	0.291	212	1370.30			
**GFM** COMP B TYPE I GRADE A(LB)				0.390	168,761	2.31	0.016	6,582	2.37			
**GFM** COMP A-3 (LB)				0.001	615	2.31	0.0001	24	2.34			
M483, EOD DEVICE, MK 7 MOD 7												
COMPLETE ROUND				0.200	6,224	32.13						
M757, CHARGE, ASSEMBLY DEMOLITION												
LOAD, ASSEMBLE & PACK (LAP)										3.411	13,794	247.28
COMP C-4 CLASS 3(LB)										5.646	291,330	19.38
M980, CHG, DEMO EXPLOSIVE SHEET 38FT												
COMPLETE ROUND				0.906	47,142	19.22	0.187	10,847	71.21			
SUB TOTAL	1.389			18.219			6.324			9.057		

Exhibit P-5  
Cost Analysis

BLIN: 150000



Exhibit P-5a, Procurement History and Planning				Weapon System			Date: MAY 2009				
Appropriation Code/Budget Activity/Serial Number: Procurement of Ammunition, Navy and Marine Corps/2/Ammunition				P-1 Line Item Nomenclature: (150000) DEMOLITION MUNITIONS, ALL TYPES							
WBS COST ELEMENTS	Qty	Unit Cost	Location of PCO	RFP Issue Date	Contract Method and Type	Contractor and Location	Award Date	Date of First Delivery	Tech Data Available Now?	Date Revisions Available	
M023, CHG, DEMO BLOCK 1 1/4LB C-4 LOAD, ASSEMBLE & PACK (LAP)											
FY 2008	75,123	6.94	JMC, ROCK ISLAND, IL	UNKNOWN	C/FP	TO BE DETERMINED (TBD)	OCT 08	MAR 10	YES		
COMP C-4 CLASS 3 (LB)											
FY 2008	99,163	8.75	JMC, ROCK ISLAND, IL	UNKNOWN	N/A/N/A	STOCK ISSUE	N/A	N/A	YES		
M024, CHG DEMO BLOCK PETN COMPLETE ROUND											
FY 2009	15,853	74.14	JMC, ROCK ISLAND, IL	UNKNOWN	C/FP	TO BE DETERMINED (TBD)	JUN 09	MAY 10	YES		
FY 2010	10,017	75.62	JMC, ROCK ISLAND, IL	UNKNOWN	C/OP	TO BE DETERMINED (TBD)	MAR 10	DEC 10	YES		
M039, CHG, DEMO 40 LB CRATERING LOAD, ASSEMBLE & PACK (LAP)											
FY 2009	15,772	518.05	JMC, ROCK ISLAND, IL	OCT 08	C/FP	TO BE DETERMINED (TBD)	DEC 08	NOV 10	YES		
FY 2010	8,175	423.47	JMC, ROCK ISLAND, IL	UNKNOWN	C/OP	TO BE DETERMINED (TBD)	MAR 10	JUN 11	YES		
* COMP D-2 (LB)											
FY 2009	36,276	19.03	JMC, ROCK ISLAND, IL	OCT 08	C/FP	TO BE DETERMINED (TBD)	JUN 09	AUG 10	YES		
FY 2010	18,803	16.64	JMC, ROCK ISLAND, IL	UNKNOWN	C/OP	TO BE DETERMINED (TBD)	MAR 10	APR 11	YES		
*COMP B TYPE I GRADE A(LB)											
FY 2009	587,913	2.31	JMC, ROCK ISLAND, IL	SEP 08	N/A/N/A	STOCK ISSUE	N/A	N/A	YES		
FY 2010	304,729	2.37	JMC, ROCK ISLAND, IL	UNKNOWN	N/A/N/A	STOCK ISSUE	N/A	N/A	YES		
ALUMINUM POWDER (LB)											
FY 2009	162,610	2.01	JMC, ROCK ISLAND, IL	OCT 08	C/FP	TO BE DETERMINED (TBD)	MAY 09	AUG 09	YES		
FY 2010	84,285	2.30	JMC, ROCK ISLAND, IL	UNKNOWN	C/OP	TO BE DETERMINED (TBD)	MAR 10	AUG 10	YES		
M097, CAP, BLAST NON-ELEC INERT COMPLETE ROUND											
FY 2009	8,308	8.01	JMC, ROCK ISLAND, IL	UNKNOWN	C/FP	TO BE DETERMINED (TBD)	JUN 09	MAY 10	YES		
FY 2010	22,207	8.08	JMC, ROCK ISLAND, IL	UNKNOWN	C/OP	TO BE DETERMINED (TBD)	MAR 10	DEC 10	YES		
M098, CAP, BLAST ELECTRIC INERT COMPLETE ROUND											
FY 2009	10,334	19.35	JMC, ROCK ISLAND, IL	UNKNOWN	C/FP	TO BE DETERMINED (TBD)	JUN 09	MAY 10	YES		
FY 2010	16,221	12.33	JMC, ROCK ISLAND, IL	UNKNOWN	C/FP	TO BE DETERMINED (TBD)	MAR 10	DEC 10	YES		
M174, CARTRIDGE, IMPULSE .50 CAL COMPLETE ROUND											
FY 2009	32,998	16.85	JMC, ROCK ISLAND, IL	UNKNOWN	C/FP	TO BE DETERMINED (TBD)	MAY 10	MAY 11	YES		

BLIN: 150000

Exhibit P-5a  
Procurement History and Planning

Exhibit P-5a, Procurement History and Planning, Continued				Weapon System			Date: MAY 2009			
Appropriation Code/Budget Activity/Serial Number: Procurement of Ammunition, Navy and Marine Corps/2/Ammunition				P-1 Line Item Nomenclature: (150000) DEMOLITION MUNITIONS, ALL TYPES						
WBS COST ELEMENTS	Qty	Unit Cost	Location of PCO	RFP Issue Date	Contract Method and Type	Contractor and Location	Award Date	Date of First Delivery	Tech Data Available Now?	Date Revisions Available
M421, CHARGE, DEMO SHAPED 40 LB LOAD, ASSEMBLE & PACK (LAP)										
FY 2009	5,436	768.60	JMC, ROCK ISLAND, IL	UNKNOWN	C/FP	TO BE DETERMINED (TBD)	JUN 09	NOV 10	YES	
FY 2010	212	1370.30	JMC, ROCK ISLAND, IL	UNKNOWN	C/OP	TO BE DETERMINED (TBD)	MAR 10	JUN 11	YES	
*COMP B TYPE I GRADE A(LB)										
FY 2009	168,761	2.31	JMC, ROCK ISLAND, IL	UNKNOWN	N/A/N/A	STOCK ISSUE	N/A	N/A	YES	
FY 2010	6,582	2.37	JMC, ROCK ISLAND, IL	UNKNOWN	N/A/N/A	STOCK ISSUE	N/A	N/A	YES	
COMP A-3 (LB)										
FY 2009	615	2.31	JMC, ROCK ISLAND, IL	UNKNOWN	N/A/N/A	STOCK ISSUE	N/A	N/A	YES	
FY 2010	24	2.34	JMC, ROCK ISLAND, IL	UNKNOWN	N/A/N/A	STOCK ISSUE	N/A	N/A	YES	
M483, EOD DEVICE, MK 7 MOD 7 COMPLETE ROUND										
FY 2009	6,224	32.13	JMC, ROCK ISLAND, IL	UNKNOWN	C/FP	TO BE DETERMINED (TBD)	MAR 09	DEC 09	YES	
M757, CHARGE, ASSEMBLY DEMO LOAD, ASSEMBLE & PACK (LAP)										
FY 2010	13,794	247.28	JMC, ROCK ISLAND, IL	UNKNOWN	SS/FP	TO BE DETERMINED (TBD)	MAR 10	MAR 11	YES	
COMP C-4 CLASS 3 (LB)										
FY 2010	291,330	19.38	JMC, ROCK ISLAND, IL	UNKNOWN	SS/FP	STOCK ISSUE	MAR 09	SEP 09	YES	
M980, CHG, DEMO EXPL SHEET, 38FT LOAD, ASSEMBLE & PACK (LAP)										
FY 2009	47,142	19.22	JMC, ROCK ISLAND, IL	UNKNOWN	C/FP	TO BE DETERMINED (TBD)	JUN 09	MAY 10	YES	
FY 2010	10,847	71.21	JMC, ROCK ISLAND, IL	UNKNOWN	C/OP	TO BE DETERMINED (TBD)	MAR 10	DEC 10	YES	
M986, CHG, DEMO SHEET, 9FT PETN COMPLETE ROUND										
FY 2009	5,248	73.08	JMC, ROCK ISLAND, IL	UNKNOWN	C/FP	TO BE DETERMINED (TBD)	JUN 09	MAY 10	YES	
FY 2010	6,132	58.43	JMC, ROCK ISLAND, IL	UNKNOWN	C/FFP	TO BE DETERMINED (TBD)	MAR 10	DEC 10	YES	
MN52, DETONATOR, NON-ELEC, MK154 COMPLETE ROUND										
FY 2008	175,647	85.00	CRANE, CRANE, IN	UNKNOWN	C/FP	TO BE DETERMINED (TBD)	MAR 08	AUG 09	YES	
FY 2009	77,380	87.18	CRANE, CRANE, IN	UNKNOWN	C/FFP	TO BE DETERMINED (TBD)	AUG 09	JAN 11	YES	
FY 2010	54,842	92.83	CRANE, CRANE, IN	UNKNOWN	C/FFP	TO BE DETERMINED (TBD)	AUG 10	JAN 12	YES	
MN69, BOOSTER, DEMO CHARGE										
FY 2009	52,000	7.34	PICATINNY NJ	UNKNOWN	C/OP	EBA&D SIMBURY CT	FEB 09	FEB 10	NO	
FY 2010	34,000	8.5	PICATINNY NJ	UNKNOWN	C/FP	TO BE DETERMINED (TBD)	MAY 10	AUG 11	NO	

Exhibit P-5a

BLIN: 150000

Procurement History and Planning



Exhibit P-21, Production Schedule, Continued Date: MAY 2009

Appropriation Code/Budget Activity/Serial Number: Weapon System  
 Procurement of Ammunition, Navy and Marine Corps/2/Ammunition P-1 Line Item Nomenclature: (150000) DODIC: M039, M757, CHARGE, ASSEMBLY, DEMOLITION

Item	Manufacturer's Name and Location	PRODUCTION RATE			PROCUREMENT LEADTIMES					Unit of Measure
		MSR	ECON	MAX	ALT Prior to Oct 1	ALT After Oct 1	Initial Mfg PLT	Reorder Mfg PLT	Total	
M757	1 AMERICAN ORDNANCE, MILAN, TN	1	8.5	10	6	6	12	12	18	K

Item	Fiscal Year 2009												Fiscal Year 2010																	
	Calendar Year 2009												Calendar Year 2010																	
	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
M757	2010	MC1	13.79	0.00	13.79																		A							13.79

Item	Fiscal Year 2011												Fiscal Year 2012																		
	Calendar Year 2011												Calendar Year 2012																		
	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	
M757	2010	MC1	13.79	0.00	13.79																										

REMARKS:

Exhibit P-21, Production Schedule Date:  
MAY 2009

Appropriation Code/Budget Activity/Serial Number: Weapon System  
 Procurement of Ammunition, Navy and Marine Corps/2/Ammunition P-1 Line Item Nomenclature:  
(150000) DODIC: MN52, DETONATOR, NON-ELECTRIC MK154

Item	Manufacturer's Name and Location	PRODUCTION RATE			PROCUREMENT LEADTIMES					
		MSR	ECON	MAX	ALT Prior to Oct 1	ALT After Oct 1	Initial Mfg PLT	Reorder Mfg PLT	Total	Unit of Measure
MN52	1 SHOCK TUBE INC., NOOSUP CT	0	0	0	6	5	12	12	17	K
	2 TO BE DETERMINED (TBD)	0	0	0						

Item	Fiscal Year 2008												Fiscal 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		
MN52	2008	MC1	175.647	0	175.647								A																	#####	14.637	146.373
	2009	MC2	77.380	0	77.380																									A		77.380
	2010	MC2	54.842	0	54.842																											54.842

Item	Fiscal Year 2010												Fiscal 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	
MN52	2008	MC1	175.647	29.274	146.373	14.637	14.637	#####	14.637	#####	14.637	14.637	14.637	#####																	0
	2009	MC2	77.380	0	77.380																	6.448	6.448	6.448	6.448	6.448	6.448	6.448	6.448	6.448	19.348
	2010	MC2	54.842	0	54.842										A																54.842

REMARKS:

BLIN: 150000

Exhibit P-21  
Production Schedule



Exhibit P-21, Production Schedule, Continued	Date: MAY 2009
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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 Nomenclature: (150000) DODIC: MN52, DETONATOR, NON-ELECTRIC MK154
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Item	Manufacturer's Name and Location	PRODUCTION RATE			PROCUREMENT LEADTIMES					Unit of Measure
		MSR	ECON	MAX	ALT Prior to Oct 1	ALT After Oct 1	Initial Mfg PLT	Reorder Mfg PLT	Total	
MN52	1 SHOCK TUBE INC., NOOSUP CT	0	0	0	6	5	12	12	17	K
	2 TO BE DETERMINED (TBD)	0	0	0						

Item	Fiscal Year 2012										Fiscal Year 2013																			
	Calendar Year 2012										Calendar Year 2013																			
	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 O C T
MN52	2008	MC1	175.647	175.647	0																									0
	2009	MC2	77.380	58.032	19.348	6.448	6.448	6.452																						0
	2010	MC2	54.842	0	54.842				4.570	4.570	4.570	4.570	4.570	4.570	4.570	4.570	4.570	4.570	4.570	4.570									0	

Item	Fiscal Year 2014										Fiscal Year 2015																		
	Calendar Year 2014										Calendar Year 2015																		
	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

REMARKS:

BLIN: 150000

Exhibit P-21  
Production Schedule

Exhibit P-40, Budget Item Justification	Date: MAY 2009
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Appropriation Code/Budget Activity/Serial Number: Procurement of Ammunition, Navy and Marine Corps/2/Ammunition	P-1 Item Nomenclature: (162500) FUZES, ALL TYPES
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Program Element for Code B Items:	Other Related Program Elements
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	ID Code	FY 2008	FY 2009	FY 2010	FY 2010 OCO	FY 2010 TOTAL				
Gross Cost	A	5.913	7.927	0.575	51.071	51.646				

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 the M777 Lightweight Towed Howitzer Weapon System. The fuze body is a one-piece design of solid aluminum and has a standard 2-inch threaded base to match the nose and fuze cavity of standard artillery projectiles.

Fuze Electronic Time (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 the M777 Lightweight Towed Howitzer Weapon System. It has the capability to be set inductively or manually.

Fuze, Precision Guidance Kit (DODIC NZ01 formerly NPGK) is used with 155mm projectiles carrying HE payloads. This fuze is fired from the M198 155mm Medium Towed Howitzer and the M777 Lightweight Towed Howitzer Weapon System.

Exhibit P-5, Cost Analysis			Weapon System			Date: MAY 2009						
Appropriation Code/Budget Activity/Serial Number:			ID Code:	P-1 Line Item Nomenclature:								
Procurement of Ammunition, Navy and Marine Corps/2/Ammunition			A	(162500) FUZES, ALL TYPES								
WBS COST ELEMENTS	FY08			FY09			FY10			FY10 OCO		
	Total Cost	Qty	Unit Cost	Total Cost	Qty	Unit Cost	Total Cost	Qty	Unit Cost	Total Cost	Qty	Unit Cost
HARDWARE												
N340, FUZE, PD M739												
COMPLETE ROUND	1.943	22,664	85.71	3.007	41,504	72.45	0.000	0	84.64	8.733	103,176	84.64
M2A1 AMMO CAN				0.065	5,188	12.53						
NA17, FUZE ELECTRONIC TIME M762A1												
FUZE ET M762A1	2.656	12,360	214.89	3.312	17,736	186.74	0.546	2,522	216.44	20.285	93,726	216.44
M2A1 AMMO CAN				0.028	2,217	12.68						
NZ01, FUZE, PRECISION GUIDANCE KIT												
COMPLETE ROUND										16.020	5,340	3000.00
PRODUCT												
PRODUCTION ENGINEERING	0.518			0.902			0.029			3.101		
QUALITY ASSURANCE	0.000			0.000			0.000			0.480		
ACCEPTANCE TESTING	0.796			0.706			0.000			2.352		
NONRECURRING												
GOVERNMENT FURNISHED MATERIAL				-0.093								
NEW EQUIPMENT TRAINING										0.100		
TOTAL												
	5.913			7.927			0.575			51.071		







Exhibit P-21, Production Schedule	Date: MAY 2009
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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 Nomenclature: (162500) DODIC: NA17, FUZE ELECTRONIC TIME M762A1
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Item	Manufacturer's Name and Location	PRODUCTION RATE			PROCUREMENT LEADTIMES						Unit of Measure
		MSR	ECON	MAX	ALT Prior to Oct 1	ALT After Oct 1	Initial Mfg PLT	Reorder Mfg PLT	Total		
NA17	L3 FUZING & ORDNANCE SYSTEMS INC., CINCINNATI, OH	10	22	30	4	7	12	12	19	K	

Item	Fiscal Year 2012												Fiscal Year 2013																	
	Calendar Year 2012												Calendar Year 2013																	
	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
NA17	2008	MC1	12.3	12.3	0.0																									0.0
	2009	MC1	17.7	17.7	0.0																									0.0
	2010	MC1	96.2	30.0	66.2	10.0	10.0	10.0	10.0	10.0	10.0	6.2																		0.0

Item	Fiscal Year 2014												Fiscal Year 2015																	
	Calendar Year 2014												Calendar Year 2015																	
	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
NA17	2008	MC1	12.3	12.3	0.0																									0.0
	2009	MC1	17.7	17.7	0.0																									0.0
	2010	MC1	96.2	96.2	0.0																									0.0

REMARKS:





Exhibit P-40, Budget Item Justification	Date: MAY 2009
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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	FY 2008	FY 2009	FY 2010	FY 2010 OCO	FY 2010 TOTAL				
Proc Qty										
Gross Cost	A	13.164	4.310	3.034	0.000	3.034				

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 plastic sleeve contains a lead shot-filled fabric or nylon bag.

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 transparent plastic sleeve contains a rubber, fin stabilized projectile.

The DODIC FZ14, L96E1 66mm anti riot CS (ortho-chlorobenzal-malonitrile) grenade is used in the Light Vehicle Obscurant Smoke System (LVOSS). It is comprised of 23 individual cannisters remotely fired from the vehicle interior.

The DODIC FZ15, L97E1 66mm anti riot cinammic acid grenade is used in training on the Light Vehicle Obscurant Smoke System (LVOSS). It is comprised of 23 individual cannisters remotely fired from the vehicle interior.

The (DODIC FZ17) M99 Blunt Trauma Grenade uses a pyrotechnic charge to discharge 32 rubber balls and achieve crowd control through physical stimuli. The M99 is used with the Light Vehicle Obscurant Smoke System (LVOSS).

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. The M201A1-1 (1330-01-456-5059) is used on the Grenade, Practice Body Non-Lethal (DODIC GG05).

Exhibit P-40, Budget Item Justification, Continued	Date: MAY 2009
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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	FY 2008	FY 2009	FY 2010	FY 2010 OCO	FY 2010 TOTAL				
Proc Qty										
Gross Cost	A	13.164	4.310	3.034	0.000	3.034				

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 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 Charge, Diversionary, Bottom Top Venting, BTV-1, (DODIC GG20) is a pyrotechnic device (grenade) used for diversionary purposes. The diversionary charge is a low hazard, nonshrapnel producing explosive device that produces intense flash and sound report. This replaces the Charge, Diversionary MK141 Mod 0 (DODIC DWBS) due to safety and reliability concerns.

The Venom Smoke and Flash Bang Non-Lethal Grenades (Temporary DODIC VNOM) are fired from a vehicle mounted platform at targets up to 200 meters distance. The primary use of Venom munitions is a standoff visible/audible warning system at vehicle checkpoints.







Exhibit P-40, Budget Item Justification	Date:  MAY 2009
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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	FY 2008	FY 2009	FY 2010	FY 2010 OCO	FY 2010 TOTAL					
Proc Qty											
Gross Cost	A	16.922	5.627	8.886	0.00	8.886					

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.

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-40, Budget Item Justification	Date: MAY 2009
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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	FY 2008	FY 2009	FY 2010 Baseline	FY 2010 OCO	FY 2010 Total				
Proc Qty										
Gross Cost	A	0.338	4.482	4.393	0.000	4.393				

Description:

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.

Funds are identified to support drug interdiction requirements.

Transportation funds 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).

These funds support the Marine Security Guard Battalion ammunition requirements which are procured through the U.S. State Department.



