

Exhibit P-40, Budget Item Justification Sheet

Date:

February 2005

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

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

Program Elements for Code B Items:

Code:

Other Related Program Elements:

	Prior Years	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	To Complete	Total Prog
Proc Qty												
Gross Cost	2054.7	40.8	42.1	49.7	52.7	47.7	46.9	47.0				2381.5
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	2054.7	40.8	42.1	49.7	52.7	47.7	46.9	47.0				2381.5
Initial Spares												
Total Proc Cost	2054.7	40.8	42.1	49.7	52.7	47.7	46.9	47.0				2381.5
Flyaway U/C												
Wpn Sys Proc U/C												

Description:

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

Exhibit P-5, Weapon AMMO Cost Analysis		Appropriation/Budget Activity/Serial No. Procurement of Ammunition, Army / 1 / Ammunition			P-1 Line Item Nomenclature: Ctg, Tank, 120mm Tactical, All Types (E78012)			Weapon System Type:			Date: February 2005			
AMMO Cost Elements		ID CD	FY 04			FY 05			FY 06			FY 07		
			TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
			\$000	x1000	\$	\$000	x1000	\$	\$000	x1000	\$	\$000	x1000	\$
Ctg, 120mm APFSDS M829E3			36249	8	4531	42335	8	5501	44399	8	5550	46800	8	5512
Cartridge, 120mm Canister, XM1028			5844	2	2338	7317	5	1434	8325	6	1460	858		
Total			42093			49652			52724			47658		

Exhibit P-40, Budget Item Justification Sheet

Date: February 2005

Appropriation/Budget Activity/Serial No: Procurement of Ammunition, Army /1/Ammunition	P-1 Item Nomenclature Cartridge, 120mm, Canister, M1028 (E78011)
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Program Elements for Code B Items:	Code: A	Other Related Program Elements:
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	Prior Years	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	To Complete	Total Prog
Proc Qty			2	5	6							13
Gross Cost			5.8	7.3	8.3	0.9						22.3
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)			5.8	7.3	8.3	0.9						22.3
Initial Spares												
Total Proc Cost			5.8	7.3	8.3	0.9						22.3
Flyaway U/C												
Wpn Sys Proc U/C												

Description:

The M1028 Canister is a muzzle action anti-personnel tank cartridge. This cartridge is fired from the 120mm main gun of the M1A1/M1A2 Abrams tank and is effective at ranges less than 700 meters. The baseline design utilizes a payload of approximately 1100 tungsten balls that are expelled from the projectile casing upon muzzle exit, similar to a shotgun shell. Unlike previous anti-personnel cartridges, the M1028 does not have a fuze; it is intended to be a low-cost, low-technology cartridge. The M1028 uses a combustible cartridge case and propulsion-ignition system common to the current 120mm tank ammunition. This item is Code A, approved for service use.

Justification:

This is a war reserve item used in combat. FY 2006 procurement builds a war reserve inventory in accordance with the Army's procurement goals. FY 2007 supports the prior year production quantities. Procurement of the M1028 supports the Abrams Main Battle tank as the Army's premier lethal battlefield direct-fire assault vehicle. This cartridge meets an urgent requirement from the Commander-in-Chief, United States Forces Korea (USFK), to effectively provide rapid, lethal fire against massed assaulting infantry armed with hand-held anti-tank and automatic weapons at close range (500 meters or less). This cartridge will significantly increase the Abram's lethality and enhance the tank crew's survivability, especially in close-compartmented terrain, and provide necessary support to friendly assaulting infantry.

TYPE CLASSIFICATION: December 2004

Exhibit P-5, Weapon AMMO Cost Analysis		Appropriation/Budget Activity/Serial No. Procurement of Ammunition, Army / 1 / Ammunition			P-1 Line Item Nomenclature: Cartridge, 120mm, Canister, M1028 (E78011)			Weapon System Type:			Date: February 2005			
AMMO Cost Elements		ID CD	FY 04			FY 05			FY 06			FY 07		
			TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
			\$000	x1000	\$000	\$000	x1000	\$000	\$000	x1000	\$000	\$000	x1000	\$000
AMMUNITION HARDWARE														
Complete Round			4031	2	1612	5919	5	1162	6631	6	1162			
SubTotal AMMO Hardware			4031			5919			6631					
PRODUCTION SUPPORT COSTS														
Production Engineering			956			1048			1044			858		
Acceptance Testing			382			350			650					
SubTotal Production Support			1338			1398			1694			858		
COST NON - RECURRING														
First Article Testing			475											
SubTotal COST Non-Recurring			475											
Total			5844		2338	7317		1434	8325		1460	858		

Exhibit P-5a, Budget Procurement History and Planning

Date:
February 2005

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

Weapon System Type:

P-1 Line Item Nomenclature:
Cartridge, 120mm, Canister, M1028 (E78011)

WBS Cost Elements:	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY x1000	Unit Cost \$	Specs Avail Now?	Date Revsn Avail	RFP Issue Date
Complete Round										
FY 2004	General Dynamics Ord & Tac St Petersburg, Fl	SS/FP	Picatinny, NJ	Dec-04	Jun-05	2	1612	Yes	Dec-04	
FY 2005	General Dynamics Ord & Tac St Petersburg, Fl	SS/FP	Picatinny, NJ	Jun-05	Jan-06	5	1162	Yes	Dec-04	
FY 2006	General Dynamics Ord & Tac St Petersburg, Fl	SS/FP	Picatinny, NJ	Jan-06	Aug-06	6	1162	Yes	Dec-04	

REMARKS:

Exhibit P-40, Budget Item Justification Sheet

Date:

February 2005

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

P-1 Item Nomenclature
Ctg, 120mm APFSDS M829A3 (E78013)

Program Elements for Code B Items:

Code:
A

Other Related Program Elements:

	Prior Years	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	To Complete	Total Prog
Proc Qty	5	8	8	8	8	8	8	8				61
Gross Cost	35.1	40.8	36.2	42.3	44.4	46.8	46.9	47.0				339.5
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	35.1	40.8	36.2	42.3	44.4	46.8	46.9	47.0				339.5
Initial Spares												
Total Proc Cost	35.1	40.8	36.2	42.3	44.4	46.8	46.9	47.0				339.5
Flyaway U/C												
Wpn Sys Proc U/C		5.1	4.5	5.5	5.6	5.5	5.5	5.5				

Description:

The 120mm M829A3 Armor Piercing, Fin Stabilized, Discarding Sabot with Tracer (APFSDS-T) cartridge is the follow-on to the M829A2 APFSDS-T cartridge. The M829A3 is designed to be the most effective anti-armor kinetic energy round fired from the M256 120mm smoothbore cannon mounted on the Abrams Main Battle Tank. This cartridge has been specifically developed to counter advances in armor protection technologies, to include explosive reactive armor. The propulsion system consists of a high-energy propellant and a combustible cartridge case with an electric primer. The projectile system consists of a Depleted Uranium (DU) penetrator mated to a drag reducing windshield and flight stabilizing multi-bladed tail fin, all secured for launch by a composite sabot. The M829A3 utilizes similar components to the M829A1 and M829A2 series of APFSDS-T cartridges, but incorporates technological advancements to provide significantly more effective anti-armor capability than the predecessor designs. This item is Code A, approved for service use.

Justification:

This is a war reserve item used in combat. FY 2006/2007 procurements build a war reserve inventory in accordance with the Army's procurement goals. Procurement of the M829A3 supports the Abrams Main Battle Tank as the Army's premier lethal battlefield direct fire assault fighting vehicle. The Abrams' 120mm gun will remain in the bulk of the tank inventory for at least the next 25 years. The M829A3 ammunition is essential in maintaining the battlefield overmatch capabilities of the Abrams Tank. Production and fielding of the M829A3 will maintain the ability of the Abrams Main Battle Tank to defeat current and postulated armor threats. This round incorporates revolutionary advances in technology and will represent the most lethal anti-armor tank cartridge in production.

TYPE CLASSIFICATION: March 2003

Exhibit P-5, Weapon AMMO Cost Analysis		Appropriation/Budget Activity/Serial No. Procurement of Ammunition, Army / 1 / Ammunition			P-1 Line Item Nomenclature: Ctg. 120mm APFSDS M829A3 (E78013)			Weapon System Type:			Date: February 2005		
AMMO Cost Elements	ID CD	FY 04			FY 05			FY 06			FY 07		
		TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
		\$000	x1000	\$	\$000	x1000	\$	\$000	x1000	\$	\$000	x1000	\$
AMMUNITION HARDWARE													
Complete Round		31182	8	3898	38474	8	5001	40089	8	4999	42444	8	4999
SubTotal AMMO Hardware		31182			38474			40089			42444		
PRODUCTION SUPPORT COSTS													
Production Engineering		3112			2914			3330			3326		
Acceptance Testing		1955			947			980			1030		
SubTotal Production Support		5067			3861			4310			4356		
Total		36249		4531	42335		5501	44399		5550	46800		5512

Exhibit P-5a, Budget Procurement History and Planning

Date:
February 2005

Appropriation/Budget Activity/Serial No: Procurement of Ammunition, Army / 1 / Ammunition		Weapon System Type:			P-1 Line Item Nomenclature: Ctg, 120mm APFSDS M829A3 (E78013)					
WBS Cost Elements:	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY Units	Unit Cost \$	Specs Avail Now?	Date Revsn Avail	RFP Issue Date
Complete Round										
FY 2004	Alliant Techsystems Minneapolis, MN	SS/FP	Picatinny, NJ	Mar-04	Oct-05	8	3898	Y		
FY 2005	Alliant Techsystems Minneapolis, MN	SS/FP	Picatinny, NJ	Feb-05	Aug-06	8	5001	Y		
FY 2006	TBS	C/FP	Picatinny, NJ	Feb-06	Mar-07	8	4999	Y		
FY 2007	TBS	C/FP	Picatinny, NJ	Feb-07	Mar-08	8	4999	Y		

REMARKS:

