

UNCLASSIFIED

Exhibit P-40, Budget Item Justification Sheet: PB 2014 Army **Date:** April 2013

Appropriation / Budget Activity / Budget Sub Activity: 2034A: Procurement of Ammunition, Army / BA 01: Ammunition / BSA 37: Artillery Ammunition	P-1 Line Item Nomenclature: E27501 - Artillery Propellants, Fuzes and Primers, All
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ID Code (A=Service Ready, B=Not Service Ready) :	Program Elements for Code B Items:	Other Related Program Elements:
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MDAP/MAIS Code(s):

Resource Summary	Prior Years	FY 2012	FY 2013 [#]	FY 2014 Base	FY 2014 OCO ^{##}	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	2,620.446	41.405	60.924	71.205	-	71.205	69.176	70.080	70.563	0.075	-	3,003.874
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) (<i>\$ in Millions</i>)	2,620.446	41.405	60.924	71.205	-	71.205	69.176	70.080	70.563	0.075	-	3,003.874
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	2,620.446	41.405	60.924	71.205	-	71.205	69.176	70.080	70.563	0.075	-	3,003.874

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (<i>Units in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>Units in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-

[#] FY 2013 Program is from the FY 2013 President's Budget, submitted February 2012

^{##} The FY 2014 OCO Request will be submitted at a later date

Description:

E27501 - Artillery Propellants, Fuzes and Primers, All Types.

E27502 - ARTY, 155MM PROP CHG, MACS M231 SERIES

SYSTEM DESCRIPTION:

The Modular Artillery Charge System (MACS) M231 "Low Zone" is intended for use with all United States 155mm cannon field artillery systems. The M231 is designed to achieve ranges from 3 to 11 kilometers. Each MACS increment includes propellant, an ignition system, and a combustible case. Packaging permits long-term storage and helps protect the items from unplanned stimuli.

This item is Code A, approved for service use.

ER8021 - ARTY, 155MM PROP CHG, MACS M232 SERIES

SYSTEM DESCRIPTION:

The Modular Artillery Charge System (MACS) M232 "High Zone" is intended for use with all United States 155mm cannon field artillery systems. The M232 "High Zone" increment is designed to achieve ranges from 10 to 40 kilometers. Each MACS increment includes propellant, an ignition system, and a combustible case. Performance enhancing additives are included in the M232 "High Zone" increment. Packaging permits long-term storage and helps protect the items from unplanned stimuli.

This item is Code A, approved for service use

E62208 - ARTY, FUZE PD M739A1

SYSTEM DESCRIPTION:

The M739A1 Point Detonating (PD) and Delay Fuze is the Army's preferred, primary fuze for 105mm and 155mm projectiles to address point detonating/delay artillery functions. The M739A1 fuze contains an Impact Delay Module (IDM) assembly. The IDM provides fuze initiation delay based upon the completion of mechanical actions caused by projectile deceleration and will function immediately after passing through the target.

This item is Code A, approved for service use.

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Exhibit P-40, Budget Item Justification Sheet: PB 2014 Army **Date:** April 2013

Appropriation / Budget Activity / Budget Sub Activity:
2034A: Procurement of Ammunition, Army / BA 01: Ammunition / BSA 37: Artillery Ammunition

P-1 Line Item Nomenclature:
E27501 - Artillery Propellants, Fuzes and Primers, All

ID Code (A=Service Ready, B=Not Service Ready) : **Program Elements for Code B Items:** **Other Related Program Elements:**

MDAP/MAIS Code(s):

E99250 - ARTY, FUZE, PRECISION GUIDANCE KIT (PGK)
SYSTEM DESCRIPTION:
The Precision Guidance Kit (PGK) is a Global Positioning System (GPS) guidance kit with fuzing functions for 155mm High Explosive (HE) artillery projectiles. PGK provides near precision accuracy and effectiveness for 155mm HE projectiles. Using an integrated GPS receiver, the PGK corrects the inherent errors associated with ballistic firing solutions and will reduce the number of artillery projectiles required to execute the mission. The current PGK Increment will qualify the PGK with the M795 and the M549A1 high explosive (HE) projectiles. This item is Code B, not approved for service use.

E99909 - Multi-Option Fuze, Artillery M782
SYSTEM DESCRIPTION:
The M782 MOFA fuze is compatible with all current bulk filled bursting projectiles fired in the 105mm and 155mm United States Field Artillery Systems. The MOFA provides proximity, precision time, delay and impact functions in a single fuze, and the inductive fuze set feature optimizes MOFA for use with automated ammunition handling equipment. The MOFA combines proven subassemblies such as the safe and arm device with modern reserve batteries and Monolithic Millimeter/Microwave Integrated Circuit technology to affordably achieve enhanced performance, producibility and safety. This item is Code A, approved for service use.

Item Schedule		ID CD	Prior Years			FY 2012			FY 2013			FY 2014 Base			FY 2014 OCO			FY 2014 Total		
Item Nomenclature*	Exhibits		Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)
E27502 - ARTY, 155MM PROP CHG, MACS M231 SERIES (DA12)	P5, P5A, P21	A	-	-	310.670	-	-	-	-	49,339	5.972	-	-	-	-	-	-	-	-	-
E62208 - ARTY, FUZE PD M739A1 (N340)	P5, P5A, P21	A	-	-	144.905	-	91,962	7.988	-	-	-	94.62	94,813	8.971	-	-	-	94.62	94,813	8.971
E99250 - ARTY, FUZE, PRECISION GUIDANCE KIT (PGK) (NA28)	P5, P5A, P21	B	-	-	51.164	-	-	-	-	2,235	37.952	13,303.55	4,678	62.234	-	-	-	13,303.55	4,678	62.234
E99909 - Multi-Option Fuze, Artillery M782 (NA09)	P5, P5A, P21	A	-	-	-	-	10,150	5.000	-	8,278	5.000	-	-	-	-	-	-	-	-	-
ER8021 - ARTY, 155MM PROP CHG, MACS M232 SERIES (DA13)	P5, P5A, P21	A	-	-	549.976	-	177,000	28.417	-	86,995	12.000	-	-	-	-	-	-	-	-	-
Total Gross/Weapon System Cost					2,620.446			41.405			60.924			71.205			-			71.205

*Item Nomenclature represents Item Number, DODIC, and Item Name for the P40A and P5; Name for the P18 and P23; Modification Number and Modification Title for the P3A; Item Number and Item Name for the P10.

Note: Totals in this Exhibit P-40 set may not be exact or add due to rounding.

Justification:
FY 2014 Base Budget supports critical Army Title 10 war reserve/operational, training, and test requirements IAW DoD Instruction 3000.04 (Munitions Requirements Process) and AR 5-13 (Total Army Munitions Requirements Process and Prioritization System). War reserve requirements support OSD-approved Combatant Commander Operational Plans, Homeland Defense, and other OSD-directed

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Exhibit P-40, Budget Item Justification Sheet: PB 2014 Army		Date: April 2013
Appropriation / Budget Activity / Budget Sub Activity: 2034A: Procurement of Ammunition, Army / BA 01: Ammunition / BSA 37: Artillery Ammunition		P-1 Line Item Nomenclature: E27501 - Artillery Propellants, Fuzes and Primers, All
ID Code (A=Service Ready, B=Not Service Ready) :	Program Elements for Code B Items:	Other Related Program Elements:
MDAP/MAIS Code(s): missions. Training requirements support individual and collective training of Active and Reserve Component forces at Army schools, home station, and the combined training centers. Test requirements support the development, fielding, safety, and quality assurance of Army munitions and equipment throughout their life-cycle.		

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Exhibit P-5, Cost Analysis: PB 2014 Army		Date: April 2013
Appropriation / Budget Activity / Budget Sub Activity: 2034A: Procurement of Ammunition, Army / BA 01: Ammunition / BSA 37: Artillery Ammunition	P-1 Line Item Nomenclature: E27501 - Artillery Propellants, Fuzes and Primers, All	Item Nomenclature (Item Number - Item Name, DODIC): E27502 - ARTY, 155MM PROP CHG, MACS M231 SERIES (DA12)

Resource Summary	Prior Years	FY 2012	FY 2013[#]	FY 2014 Base	FY 2014 OCO^{##}	FY 2014 Total
Procurement Quantity (Units in Each)	-	-	49,339	-	-	-
Gross/Weapon System Cost (\$ in Millions)	310.670	-	5.972	-	-	-
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P1) (\$ in Millions)	310.670	-	5.972	-	-	-
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	310.670	-	5.972	-	-	-

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares (\$ in Millions)	-	-	-	-	-	-
Gross/Weapon System Unit Cost (Units in Dollars)	-	-	-	-	-	-

[#] FY 2013 Program is from the FY 2013 President's Budget, submitted February 2012

^{##} The FY 2014 OCO Request will be submitted at a later date

Cost Elements († indicates the presence of a P-5A)	ID CD	All Prior Years			FY 2012			FY 2013			FY 2014 Base			FY 2014 OCO			FY 2014 Total		
		Unit Cost (\$)	Quantity (Each)	Total Cost (\$ M)	Unit Cost (\$)	Quantity (Each)	Total Cost (\$ M)	Unit Cost (\$)	Quantity (Each)	Total Cost (\$ M)	Unit Cost (\$)	Quantity (Each)	Total Cost (\$ M)	Unit Cost (\$)	Quantity (Each)	Total Cost (\$ M)	Unit Cost (\$)	Quantity (Each)	Total Cost (\$ M)
Hardware Cost																			
Recurring Cost																			
† LOAD, ASSEMBLE, PACK (LAP)		-	-	-	-	-	-	17.38	49,339	0.858	-	-	-	-	-	-	-	-	-
† COMBUSTIBLE CASES - M231		-	-	-	-	-	-	36.17	50,819	1.838	-	-	-	-	-	-	-	-	-
† PROPELLANT, PAPP7993		-	-	-	-	-	-	9.19	172,686	1.587	-	-	-	-	-	-	-	-	-
† CONTAINER, M231		-	-	-	-	-	-	41.69	12,828	0.535	-	-	-	-	-	-	-	-	-
† IGNITION PROPELLANT, MACS		-	-	-	-	-	-	9.58	3,157	0.030	-	-	-	-	-	-	-	-	-
† BLACK POWDER		-	-	-	-	-	-	14.08	2,960	0.042	-	-	-	-	-	-	-	-	-
<i>Total Recurring Cost</i>				-						4.890									
<i>Total Hardware Cost</i>				-						4.890									
Support Cost																			
PRODUCTION ENGINEERING		-	-	-	-	-	-	-	-	0.972	-	-	-	-	-	-	-	-	-
QUALITY ASSURANCE		-	-	-	-	-	-	-	-	0.011	-	-	-	-	-	-	-	-	-
ACCEPTANCE TESTING		-	-	-	-	-	-	-	-	0.099	-	-	-	-	-	-	-	-	-
<i>Total Support Cost</i>				-						1.082									

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Exhibit P-5, Cost Analysis: PB 2014 Army												Date: April 2013					
Appropriation / Budget Activity / Budget Sub Activity: 2034A: Procurement of Ammunition, Army / BA 01: Ammunition / BSA 37: Artillery Ammunition						P-1 Line Item Nomenclature: E27501 - Artillery Propellants, Fuzes and Primers, All						Item Nomenclature (Item Number - Item Name, DODIC): E27502 - ARTY, 155MM PROP CHG, MACS M231 SERIES (DA12)					

Cost Elements († indicates the presence of a P-5A)	ID CD	All Prior Years			FY 2012			FY 2013			FY 2014 Base			FY 2014 OCO			FY 2014 Total		
		Unit Cost (\$)	Quantity (Each)	Total Cost (\$ M)	Unit Cost (\$)	Quantity (Each)	Total Cost (\$ M)	Unit Cost (\$)	Quantity (Each)	Total Cost (\$ M)	Unit Cost (\$)	Quantity (Each)	Total Cost (\$ M)	Unit Cost (\$)	Quantity (Each)	Total Cost (\$ M)	Unit Cost (\$)	Quantity (Each)	Total Cost (\$ M)
Gross Weapon System Cost				310.670			-			5.972			-			-			-

P-5 Remarks:

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Exhibit P-5A, Budget Procurement History and Planning: PB 2014 Army										Date: April 2013		
Appropriation / Budget Activity / Budget Sub Activity: 2034A: Procurement of Ammunition, Army / BA 01: Ammunition / BSA 37: Artillery Ammunition				P-1 Line Item Nomenclature: E27501 - Artillery Propellants, Fuzes and Primers, All				Item Nomenclature: E27502 - ARTY, 155MM PROP CHG, MACS M231 SERIES (DA12)				
Cost Elements († indicates the presence of a P-21)	O C O	FY	Contractor and Location	Method/Type, or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty (Each)	Unit Cost (\$)	Specs Avail Now?	Date Revsn Avail	RFP Issue Date
†LOAD, ASSEMBLE, PACK (LAP)		2013	TO BE SELECTED / TBS01	C / FFP	PICATINNY ARSENAL, NJ	Jun 2013	Mar 2015	49,339	17.38	Y		
COMBUSTIBLE CASES - M231		2013	TO BE SELECTED / TBS01	C / FFP	PICATINNY ARSENAL, NJ	Jun 2013	Dec 2014	50,819	36.17	Y		
PROPELLANT, PAPP7993		2013	BAE SYSTEMS ORDNANCE SYSTEMS / RADFORD,	C / FFP	ROCK ISLAND ARSENAL, IL	Jun 2013	Sep 2013	172,686	9.19	Y		
CONTAINER, M231		2013	TO BE SELECTED / TBS01	C / FFP	ROCK ISLAND ARSENAL, IL	Jun 2013	Jun 2014	12,828	41.69	Y		
IGNITION PROPELLANT, MACS		2013	ST. MARKS POWDER INC. / CRAWFORDVILLE, FL	C / FFP	PICATINNY ARSENAL, NJ	Jun 2013	Jun 2014	3,157	9.58	Y		
BLACK POWDER		2013	GOEX, INC / MINDEN, LA	SS / FFP	ROCK ISLAND ARSENAL, IL	Jun 2013	Dec 2014	2,960	14.08	Y		

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Exhibit P-21, Budget Production Schedule: PB 2014 Army																							Date: April 2013																			
Appropriation / Budget Activity / Budget Sub Activity: 2034A: Procurement of Ammunition, Army / BA 01: Ammunition / BSA 37: Artillery Ammunition											P-1 Line Item Nomenclature: E27501 - Artillery Propellants, Fuzes and Primers, All											Item Nomenclature: E27502 - ARTY, 155MM PROP CHG, MACS M231 SERIES (DA12)																				
Cost Elements <i>(Units in Thousands)</i>						Fiscal Year 2013														Fiscal Year 2014																						
						Calendar Year 2013														Calendar Year 2014																						
O	C	M	R	FY	SERVICE[±]	PROC	QTY	ACCEP	PRIOR	TO 1	BAL	OCT	2012	AS OF	1 OCT	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		
																T	V	C	N	B	R	R	Y	N	L	G	P	T	V	C	N	B	R	R	Y	N	L	G	P	A	L	
LOAD, ASSEMBLE, PACK (LAP)																																										
	1		2013	ARMY	49.339	-	49.339	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	A -	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	49.339
																T	V	C	N	B	R	R	Y	N	L	G	P	T	V	C	N	B	R	R	Y	N	L	G	P	A	L	

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Exhibit P-21, Budget Production Schedule: PB 2014 Army																							Date: April 2013																
Appropriation / Budget Activity / Budget Sub Activity: 2034A: Procurement of Ammunition, Army / BA 01: Ammunition / BSA 37: Artillery Ammunition											P-1 Line Item Nomenclature: E27501 - Artillery Propellants, Fuzes and Primers, All											Item Nomenclature: E27502 - ARTY, 155MM PROP CHG, MACS M231 SERIES (DA12)																	
Cost Elements <i>(Units in Thousands)</i>						Fiscal Year 2015														Fiscal Year 2016																			
						Calendar Year 2015														Calendar Year 2016																			
O	C	M	F	R	#	FY	SERVICE[±]	PROC	QTY	ACCEP	PRIOR	TO 1	BAL	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	
										TO 1	OCT	2014	AS OF	T	V	C	N	B	R	R	A	Y	N	L	G	P	T	V	C	N	B	R	R	Y	N	L	G	P	L
LOAD, ASSEMBLE, PACK (LAP)																																							
	1	2013	ARMY	49.339	-	49.339	-	-	-	-	-	-	25.000	24.339																								-	

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Exhibit P-21, Budget Production Schedule: PB 2014 Army		Date: April 2013
Appropriation / Budget Activity / Budget Sub Activity: 2034A: Procurement of Ammunition, Army / BA 01: Ammunition / BSA 37: Artillery Ammunition	P-1 Line Item Nomenclature: E27501 - Artillery Propellants, Fuzes and Primers, All	Item Nomenclature: E27502 - ARTY, 155MM PROP CHG, MACS M231 SERIES (DA12)

MFR #	MFR Name - Location	Production Rates (Each / Month)			Procurement Leadtime (Months)							
		MSR	1-8-5	MAX	Initial				Reorder			
					ALT Prior to Oct 1	ALT After Oct 1	Mfg PLT	Total After Oct 1	ALT Prior to Oct 1	ALT After Oct 1	Mfg PLT	Total After Oct 1
1	TO BE SELECTED - TBS01	15.000	25.000	62.000	6	6	24	30	6	6	24	30

"A" in the Delivery Schedule indicated the Contract Award Date.

Due to space limitations, quantities in the Exhibit P-21 delivery calendar are truncated and rounded based on the maximum quantity in the calendar as follows. If the maximum quantity is less than or equal to than 99,999, all quantities are shown as each. If the maximum quantity is between 100,000 and 99,999,499 all quantities are shown in thousands (rounded to the nearest thousand). If the maximum quantity is greater than 99,999,499 all quantities are shown in millions (rounded to the nearest million).

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Exhibit P-5, Cost Analysis: PB 2014 Army		Date: April 2013
Appropriation / Budget Activity / Budget Sub Activity: 2034A: Procurement of Ammunition, Army / BA 01: Ammunition / BSA 37: Artillery Ammunition	P-1 Line Item Nomenclature: E27501 - Artillery Propellants, Fuzes and Primers, All	Item Nomenclature (Item Number - Item Name, DODIC): E62208 - ARTY, FUZE PD M739A1 (N340)

Resource Summary	Prior Years	FY 2012	FY 2013[#]	FY 2014 Base	FY 2014 OCO^{##}	FY 2014 Total
Procurement Quantity (<i>Units in Each</i>)	-	91,962	-	94,813	-	94,813
Gross/Weapon System Cost (<i>\$ in Millions</i>)	144.905	7.988	-	8.971	-	8.971
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-
Net Procurement (P1) (<i>\$ in Millions</i>)	144.905	7.988	-	8.971	-	8.971
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	144.905	7.988	-	8.971	-	8.971

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>Units in Dollars</i>)	-	-	-	94.62	-	94.62

[#] FY 2013 Program is from the FY 2013 President's Budget, submitted February 2012

^{##} The FY 2014 OCO Request will be submitted at a later date

Cost Elements († indicates the presence of a P-5A)	ID CD	All Prior Years			FY 2012			FY 2013			FY 2014 Base			FY 2014 OCO			FY 2014 Total		
		Unit Cost (\$)	Quantity (Each)	Total Cost (\$ M)	Unit Cost (\$)	Quantity (Each)	Total Cost (\$ M)	Unit Cost (\$)	Quantity (Each)	Total Cost (\$ M)	Unit Cost (\$)	Quantity (Each)	Total Cost (\$ M)	Unit Cost (\$)	Quantity (Each)	Total Cost (\$ M)	Unit Cost (\$)	Quantity (Each)	Total Cost (\$ M)
Hardware Cost																			
Recurring Cost																			
† COMPLETE ROUND		-	-	-	72.00	91,962	6.621	-	-	-	81.40	94,813	7.718	-	-	-	81.40	94,813	7.718
<i>Total Recurring Cost</i>				-			6.621			-			7.718			-			7.718
<i>Total Hardware Cost</i>				-			6.621			-			7.718			-			7.718
Support Cost																			
PRODUCTION ENGINEERING		-	-	-	-	-	0.858	-	-	-	-	-	0.897	-	-	-	-	-	0.897
ACCEPTANCE TESTING		-	-	-	-	-	0.417	-	-	-	-	-	0.356	-	-	-	-	-	0.356
ENGINEERING CHANGE PROPOSAL		-	-	-	-	-	0.092	-	-	-	-	-	-	-	-	-	-	-	-
<i>Total Support Cost</i>				-			1.367			-			1.253			-			1.253
Gross Weapon System Cost				144.905			7.988			-			8.971			-			8.971

P-5 Remarks:

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Exhibit P-5A, Budget Procurement History and Planning: PB 2014 Army										Date: April 2013		
Appropriation / Budget Activity / Budget Sub Activity: 2034A: Procurement of Ammunition, Army / BA 01: Ammunition / BSA 37: Artillery Ammunition				P-1 Line Item Nomenclature: E27501 - Artillery Propellants, Fuzes and Primers, All					Item Nomenclature: E62208 - ARTY, FUZE PD M739A1 (N340)			
Cost Elements <small>(† indicates the presence of a P-21)</small>	O C O	FY	Contractor and Location	Method/Type, or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty <i>(Each)</i>	Unit Cost <i>(\$)</i>	Specs Avail Now?	Date Revsn Avail	RFP Issue Date
†COMPLETE ROUND		2012	ACTION MANUFACTURING COMPANY / PHILADELPHIA, PA	C / FFP	PICATINNY ARSENAL, NJ	Apr 2012	Apr 2014	91,962	72.00	Y		
†COMPLETE ROUND		2014	TO BE SELECTED / TBS01	C / IDIQ	PICATINNY ARSENAL, NJ	Mar 2014	Mar 2016	94,813	81.40	Y		
Remarks: TO BE SELECTED IS AN IDIQ CONTRACT AND WILL HAVE MULTIPLE SUPPLIER AWARDS.												

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Exhibit P-21, Budget Production Schedule: PB 2014 Army															Date: April 2013														
Appropriation / Budget Activity / Budget Sub Activity: 2034A: Procurement of Ammunition, Army / BA 01: Ammunition / BSA 37: Artillery Ammunition										P-1 Line Item Nomenclature: E27501 - Artillery Propellants, Fuzes and Primers, All										Item Nomenclature: E62208 - ARTY, FUZE PD M739A1 (N340)									

Cost Elements <i>(Units in Thousands)</i>						Fiscal Year 2012												Fiscal Year 2013															
O C C O	M F R #	FY	SERVICE±	PROC QTY	ACCEP PRIOR TO 1 OCT 2011	BAL DUE AS OF 1 OCT	Calendar Year 2012												Calendar Year 2013														
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	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		
COMPLETE ROUND																																	
	1	2012	ARMY	91.962	-	91.962	-	-	-	-	-	-	A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	91.962
	1	2012	♦ MC	117.810	-	117.810	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	117.810	
	1	2012	TOTAL	209.772	-	209.772	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	209.772		
	2	2014	ARMY	94.813	-	94.813	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	94.813		
	2	2014	♦ MC	202.382	-	202.382	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	202.382		
	2	2014	TOTAL	297.195	-	297.195	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	297.195			
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	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		

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Exhibit P-21, Budget Production Schedule: PB 2014 Army															Date: April 2013														
Appropriation / Budget Activity / Budget Sub Activity: 2034A: Procurement of Ammunition, Army / BA 01: Ammunition / BSA 37: Artillery Ammunition										P-1 Line Item Nomenclature: E27501 - Artillery Propellants, Fuzes and Primers, All										Item Nomenclature: E62208 - ARTY, FUZE PD M739A1 (N340)									

Cost Elements <i>(Units in Thousands)</i>							Fiscal Year 2014										Fiscal Year 2015																	
O C C O	M F R #	FY	SERVICE±	PROC QTY	ACCEP PRIOR TO 1 OCT 2013	BAL DUE AS OF 1 OCT	Calendar Year 2014										Calendar Year 2015																	
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	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			
COMPLETE ROUND																																		
	1	2012	ARMY	91.962	-	91.962	-	-	-	-	-	-	5.000	5.000	5.000	5.000	5.000	7.000	10.000	10.000	10.000	10.000	10.000	10.000	9.962									
	1	2012	♦ MC	117.810	-	117.810	-	-	-	-	-	-	10.000	-	20.000	10.000	10.000	10.000	10.000	10.000	10.000	10.000	10.000	9.942	7.868									
	1	2012	TOTAL	209.772	-	209.772	-	-	-	-	-	-	15.000	5.000	25.000	15.000	15.000	17.000	20.000	20.000	20.000	20.000	19.942	17.830										
	2	2014	ARMY	94.813	-	94.813	-	-	-	-	-	A -	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	94.813
	2	2014	♦ MC	202.382	-	202.382	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	202.382
	2	2014	TOTAL	297.195	-	297.195	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	297.195
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	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			

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Exhibit P-21, Budget Production Schedule: PB 2014 Army		Date: April 2013
Appropriation / Budget Activity / Budget Sub Activity: 2034A: Procurement of Ammunition, Army / BA 01: Ammunition / BSA 37: Artillery Ammunition	P-1 Line Item Nomenclature: E27501 - Artillery Propellants, Fuzes and Primers, All	Item Nomenclature: E62208 - ARTY, FUZE PD M739A1 (N340)

MFR #	MFR Name - Location	Production Rates (Each / Month)			Procurement Leadtime (Months)							
		MSR	1-8-5	MAX	Initial				Reorder			
					ALT Prior to Oct 1	ALT After Oct 1	Mfg PLT	Total After Oct 1	ALT Prior to Oct 1	ALT After Oct 1	Mfg PLT	Total After Oct 1
1	ACTION MANUFACTURING COMPANY - PHILADELPHIA, PA	10.000	15.000	30.000	6	6	24	30	6	6	24	30
2	TO BE SELECTED - TBS01	10.000	15.000	30.000	6	6	24	30	6	6	24	30

‡ Delivery rows marked with the ♦ symbol indicate that they are funded through a separate Line Item. See the respective components' exhibits for details, including the full delivery schedule.

"A" in the Delivery Schedule indicated the Contract Award Date.

Due to space limitations, quantities in the Exhibit P-21 delivery calendar are truncated and rounded based on the maximum quantity in the calendar as follows. If the maximum quantity is less than or equal to than 99,999, all quantities are shown as each. If the maximum quantity is between 100,000 and 99,999,499 all quantities are shown in thousands (rounded to the nearest thousand). If the maximum quantity is greater than 99,999,499 all quantities are shown in millions (rounded to the nearest million).

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Exhibit P-5, Cost Analysis: PB 2014 Army		Date: April 2013
Appropriation / Budget Activity / Budget Sub Activity: 2034A: Procurement of Ammunition, Army / BA 01: Ammunition / BSA 37: Artillery Ammunition	P-1 Line Item Nomenclature: E27501 - Artillery Propellants, Fuzes and Primers, All	Item Nomenclature (Item Number - Item Name, DODIC): E99250 - ARTY, FUZE, PRECISION GUIDANCE KIT (PGK) (NA28)

Resource Summary	Prior Years	FY 2012	FY 2013[#]	FY 2014 Base	FY 2014 OCO^{##}	FY 2014 Total
Procurement Quantity (Units in Each)	-	-	2,235	4,678	-	4,678
Gross/Weapon System Cost (\$ in Millions)	51.164	-	37.952	62.234	-	62.234
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P1) (\$ in Millions)	51.164	-	37.952	62.234	-	62.234
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	51.164	-	37.952	62.234	-	62.234

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares (\$ in Millions)	-	-	-	-	-	-
Gross/Weapon System Unit Cost (Units in Dollars)	-	-	-	13,303.55	-	13,303.55

[#] FY 2013 Program is from the FY 2013 President's Budget, submitted February 2012

^{##} The FY 2014 OCO Request will be submitted at a later date

Cost Elements († indicates the presence of a P-5A)	ID CD	All Prior Years			FY 2012			FY 2013			FY 2014 Base			FY 2014 OCO			FY 2014 Total		
		Unit Cost (\$)	Quantity (Each)	Total Cost (\$ M)	Unit Cost (\$)	Quantity (Each)	Total Cost (\$ M)	Unit Cost (\$)	Quantity (Each)	Total Cost (\$ M)	Unit Cost (\$)	Quantity (Each)	Total Cost (\$ M)	Unit Cost (\$)	Quantity (Each)	Total Cost (\$ M)	Unit Cost (\$)	Quantity (Each)	Total Cost (\$ M)
Hardware Cost																			
Recurring Cost																			
† COMPLETE FUZE		-	-	-	-	-	13,541.00	2,235	30.264	8,938.00	4,678	41.812	-	-	-	8,938.00	4,678	41.812	
<i>Total Recurring Cost</i>				-					30.264			41.812			-			41.812	
<i>Total Hardware Cost</i>				-					30.264			41.812			-			41.812	
Support Cost																			
PRODUCTION ENGINEERING		-	-	-	-	-	-	-	4.338	-	-	4.419	-	-	-	-	-	4.419	
ACCEPTANCE TESTING		-	-	-	-	-	-	-	0.810	-	-	1.500	-	-	-	-	-	1.500	
FIRST ARTICLE TEST		-	-	-	-	-	-	-	0.540	-	-	-	-	-	-	-	-	-	
TECH DATA LICENSE RIGHTS		-	-	-	-	-	-	-	2.000	-	-	13.000	-	-	-	-	-	13.000	
NEW EQUIPMENT TRAINING		-	-	-	-	-	-	-	-	-	-	1.503	-	-	-	-	-	1.503	
<i>Total Support Cost</i>				-					7.688			20.422			-			20.422	
Gross Weapon System Cost				51.164					37.952			62.234			-			62.234	

P-5 Remarks:

UNCLASSIFIED

Exhibit P-5A, Budget Procurement History and Planning: PB 2014 Army										Date: April 2013		
Appropriation / Budget Activity / Budget Sub Activity: 2034A: Procurement of Ammunition, Army / BA 01: Ammunition / BSA 37: Artillery Ammunition				P-1 Line Item Nomenclature: E27501 - Artillery Propellants, Fuzes and Primers, All					Item Nomenclature: E99250 - ARTY, FUZE, PRECISION GUIDANCE KIT (PGK) (NA28)			
Cost Elements <small>(† indicates the presence of a P-21)</small>	O C O	FY	Contractor and Location	Method/Type, or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty <i>(Each)</i>	Unit Cost <i>(\$)</i>	Specs Avail Now?	Date Revsn Avail	RFP Issue Date
†COMPLETE FUZE		2013	ALLIANT TECHSYSTEMS INC. / ALLEGANY BALLISTICS LAB, WV	SS / FFP	PICATINNY ARSENAL, NJ	Jun 2013	Feb 2014	2,235	13,541.00	Y		
†COMPLETE FUZE		2014	ALLIANT TECHSYSTEMS INC. / ALLEGANY BALLISTICS LAB, WV	SS / FFP	PICATINNY ARSENAL	May 2014	Dec 2014	4,678	8,938.00	Y		

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Exhibit P-21, Budget Production Schedule: PB 2014 Army															Date: April 2013														
Appropriation / Budget Activity / Budget Sub Activity: 2034A: Procurement of Ammunition, Army / BA 01: Ammunition / BSA 37: Artillery Ammunition										P-1 Line Item Nomenclature: E27501 - Artillery Propellants, Fuzes and Primers, All										Item Nomenclature: E99250 - ARTY, FUZE, PRECISION GUIDANCE KIT (PGK) (NA28)									

Cost Elements <i>(Units in Thousands)</i>						Fiscal Year 2013												Fiscal Year 2014																					
O C C O	M F R #	FY	SERVICE±	PROC QTY	ACCEP PRIOR TO 1 OCT 2012	BAL DUE AS OF 1 OCT	Calendar Year 2013												Calendar Year 2014																				
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	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								
COMPLETE FUZE																																							
	1	2013	ARMY	2.235	-	2.235	-	-	-	-	-	-	-	-	-	A -	-	-	-	-	-	-	-	-	-	-	-	-	-	-	.300	.313	.350	.400	.435	.437	-	-	-
	1	2013	♦ MC (1)	1.749	-	1.749	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	.437	.437	.875
	1	2013	♦ FMS	.051	-	.051	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	.051	-	-	
	1	2013	TOTAL	4.035	-	4.035	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	.300	.313	.350	.400	.435	.437	.488	.437	.875		
	1	2014	ARMY	4.678	-	4.678	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4.678	
	1	2014	♦ MC	2.008	-	2.008	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.008	
	1	2014	♦ FMS	1.575	-	1.575	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.575	
	1	2014	TOTAL	8.261	-	8.261	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	8.261			
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	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								

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Exhibit P-21, Budget Production Schedule: PB 2014 Army		Date: April 2013
Appropriation / Budget Activity / Budget Sub Activity: 2034A: Procurement of Ammunition, Army / BA 01: Ammunition / BSA 37: Artillery Ammunition	P-1 Line Item Nomenclature: E27501 - Artillery Propellants, Fuzes and Primers, All	Item Nomenclature: E99250 - ARTY, FUZE, PRECISION GUIDANCE KIT (PGK) (NA28)

MFR #	MFR Name - Location	Production Rates (Each / Month)			Procurement Leadtime (Months)							
		MSR	1-8-5	MAX	Initial				Reorder			
					ALT Prior to Oct 1	ALT After Oct 1	Mfg PLT	Total After Oct 1	ALT Prior to Oct 1	ALT After Oct 1	Mfg PLT	Total After Oct 1
1	ALLIANT TECHSYSTEMS INC. - ALLEGANY BALLISTICS LAB, WV	.300	1.100	2.200	13	9	8	17	2	8	7	15

‡ Delivery rows marked with the ♦ symbol indicate that they are funded through a separate Line Item. See the respective components' exhibits for details, including the full delivery schedule.

"A" in the Delivery Schedule indicated the Contract Award Date.

Due to space limitations, quantities in the Exhibit P-21 delivery calendar are truncated and rounded based on the maximum quantity in the calendar as follows. If the maximum quantity is less than or equal to than 99,999, all quantities are shown as each. If the maximum quantity is between 100,000 and 99,999,499 all quantities are shown in thousands (rounded to the nearest thousand). If the maximum quantity is greater than 99,999,499 all quantities are shown in millions (rounded to the nearest million).

Service/Agency Suffixes:

(l) S

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Exhibit P-5, Cost Analysis: PB 2014 Army		Date: April 2013
Appropriation / Budget Activity / Budget Sub Activity: 2034A: Procurement of Ammunition, Army / BA 01: Ammunition / BSA 37: Artillery Ammunition	P-1 Line Item Nomenclature: E27501 - Artillery Propellants, Fuzes and Primers, All	Item Nomenclature (Item Number - Item Name, DODIC): E99909 - Multi-Option Fuze, Artillery M782 (NA09)

Resource Summary	Prior Years	FY 2012	FY 2013[#]	FY 2014 Base	FY 2014 OCO^{##}	FY 2014 Total
Procurement Quantity (<i>Units in Each</i>)	-	10,150	8,278	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	-	5.000	5.000	-	-	-
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-
Net Procurement (P1) (<i>\$ in Millions</i>)	-	5.000	5.000	-	-	-
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	-	5.000	5.000	-	-	-

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>Units in Dollars</i>)	-	-	-	-	-	-

[#] FY 2013 Program is from the FY 2013 President's Budget, submitted February 2012

^{##} The FY 2014 OCO Request will be submitted at a later date

Cost Elements († indicates the presence of a P-5A)	ID CD	All Prior Years			FY 2012			FY 2013			FY 2014 Base			FY 2014 OCO			FY 2014 Total		
		Unit Cost (\$)	Quantity (Each)	Total Cost (\$ M)	Unit Cost (\$)	Quantity (Each)	Total Cost (\$ M)	Unit Cost (\$)	Quantity (Each)	Total Cost (\$ M)	Unit Cost (\$)	Quantity (Each)	Total Cost (\$ M)	Unit Cost (\$)	Quantity (Each)	Total Cost (\$ M)	Unit Cost (\$)	Quantity (Each)	Total Cost (\$ M)
Hardware Cost																			
Recurring Cost																			
† Complete Round		-	-	-	400.00	10,150	4.060	530.00	8,000	4.220	-	-	-	-	-	-	-	-	-
Total Recurring Cost				-			4.060			4.220			-			-			-
Total Hardware Cost				-			4.060			4.220			-			-			-
Support Cost																			
Production Engineering		-	-	-	-	-	0.800	-	-	0.500	-	-	-	-	-	-	-	-	-
Acceptance Testing		-	-	-	-	-	0.140	-	-	0.280	-	-	-	-	-	-	-	-	-
Total Support Cost				-			0.940			0.780			-			-			-
Gross Weapon System Cost				-			5.000			5.000			-			-			-

P-5 Remarks:

UNCLASSIFIED

Exhibit P-5A, Budget Procurement History and Planning: PB 2014 Army										Date: April 2013		
Appropriation / Budget Activity / Budget Sub Activity: 2034A: Procurement of Ammunition, Army / BA 01: Ammunition / BSA 37: Artillery Ammunition				P-1 Line Item Nomenclature: E27501 - Artillery Propellants, Fuzes and Primers, All					Item Nomenclature: E99909 - Multi-Option Fuze, Artillery M782 (NA09)			
Cost Elements <small>(† indicates the presence of a P-21)</small>	O C O	FY	Contractor and Location	Method/Type, or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty <i>(Each)</i>	Unit Cost <i>(\$)</i>	Specs Avail Now?	Date Revsn Avail	RFP Issue Date
†Complete Round		2012	TO BE SELECTED / TBS01	C / FFP	PICATINNY ARSENAL, NJ	Jun 2013	Jun 2015	10,150	400.00	Y		
†Complete Round		2013	TO BE SELECTED / TBS01	C / FFP	PICATINNY ARSENAL, NJ	Sep 2013	Sep 2015	8,000	530.00	Y		

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Exhibit P-21, Budget Production Schedule: PB 2014 Army		Date: April 2013
Appropriation / Budget Activity / Budget Sub Activity: 2034A: Procurement of Ammunition, Army / BA 01: Ammunition / BSA 37: Artillery Ammunition	P-1 Line Item Nomenclature: E27501 - Artillery Propellants, Fuzes and Primers, All	Item Nomenclature: E99909 - Multi-Option Fuze, Artillery M782 (NA09)

MFR #	MFR Name - Location	Production Rates (Each / Month)			Procurement Leadtime (Months)							
		MSR	1-8-5	MAX	Initial				Reorder			
					ALT Prior to Oct 1	ALT After Oct 1	Mfg PLT	Total After Oct 1	ALT Prior to Oct 1	ALT After Oct 1	Mfg PLT	Total After Oct 1
1	TO BE SELECTED - TBS01	5.000	8.000	12.000	6	6	24	30	6	6	24	30

"A" in the Delivery Schedule indicated the Contract Award Date.
 Due to space limitations, quantities in the Exhibit P-21 delivery calendar are truncated and rounded based on the maximum quantity in the calendar as follows. If the maximum quantity is less than or equal to than 99,999, all quantities are shown as each. If the maximum quantity is between 100,000 and 99,999,499 all quantities are shown in thousands (rounded to the nearest thousand). If the maximum quantity is greater than 99,999,499 all quantities are shown in millions (rounded to the nearest million).

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Exhibit P-5, Cost Analysis: PB 2014 Army		Date: April 2013
Appropriation / Budget Activity / Budget Sub Activity: 2034A: Procurement of Ammunition, Army / BA 01: Ammunition / BSA 37: Artillery Ammunition	P-1 Line Item Nomenclature: E27501 - Artillery Propellants, Fuzes and Primers, All	Item Nomenclature (Item Number - Item Name, DODIC): ER8021 - ARTY, 155MM PROP CHG, MACS M232 SERIES (DA13)

Resource Summary	Prior Years	FY 2012	FY 2013[#]	FY 2014 Base	FY 2014 OCO^{##}	FY 2014 Total
Procurement Quantity (Units in Each)	-	177,000	86,995	-	-	-
Gross/Weapon System Cost (\$ in Millions)	549.976	28.417	12.000	-	-	-
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P1) (\$ in Millions)	549.976	28.417	12.000	-	-	-
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	549.976	28.417	12.000	-	-	-

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares (\$ in Millions)	-	-	-	-	-	-
Gross/Weapon System Unit Cost (Units in Dollars)	-	-	-	-	-	-

[#] FY 2013 Program is from the FY 2013 President's Budget, submitted February 2012

^{##} The FY 2014 OCO Request will be submitted at a later date

Cost Elements († indicates the presence of a P-5A)	ID CD	All Prior Years			FY 2012			FY 2013			FY 2014 Base			FY 2014 OCO			FY 2014 Total		
		Unit Cost (\$)	Quantity (Each)	Total Cost (\$ M)	Unit Cost (\$)	Quantity (Each)	Total Cost (\$ M)	Unit Cost (\$)	Quantity (Each)	Total Cost (\$ M)	Unit Cost (\$)	Quantity (Each)	Total Cost (\$ M)	Unit Cost (\$)	Quantity (Each)	Total Cost (\$ M)	Unit Cost (\$)	Quantity (Each)	Total Cost (\$ M)
Hardware Cost																			
Recurring Cost																			
† LOAD, ASSEMBLE, PACK (LAP)		-	-	-	17.11	177,000	3.028	20.33	86,995	1.769	-	-	-	-	-	-	-	-	-
† COMBUSTIBLE CASES - M232A1		-	-	-	34.37	182,352	6.267	36.17	89,605	3.241	-	-	-	-	-	-	-	-	-
† PROPELLANT, M31A2		-	-	-	10.90	1,140,000	12.429	14.23	419,315	5.967	-	-	-	-	-	-	-	-	-
† CONTAINER, M232A1		-	-	-	43.00	36,468	1.568	41.69	18,268	0.762	-	-	-	-	-	-	-	-	-
† IGNITION PROPELLANT, MACS		-	-	-	8.70	28,000	0.244	9.58	5,567	0.053	-	-	-	-	-	-	-	-	-
† BLACK POWDER		-	-	-	13.79	10,800	0.149	14.08	5,219	0.073	-	-	-	-	-	-	-	-	-
Total Recurring Cost							23.685			11.865									
Total Hardware Cost							23.685			11.865									
Support Cost																			
PRODUCTION ENGINEERING		-	-	-	-	-	4.326	-	-	-	-	-	-	-	-	-	-	-	-
QUALITY ASSURANCE		-	-	-	-	-	0.006	-	-	-	-	-	-	-	-	-	-	-	-
ACCEPTANCE TESTING		-	-	-	-	-	0.400	-	-	0.135	-	-	-	-	-	-	-	-	-
Total Support Cost							4.732			0.135									

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Exhibit P-5, Cost Analysis: PB 2014 Army												Date: April 2013					
Appropriation / Budget Activity / Budget Sub Activity: 2034A: Procurement of Ammunition, Army / BA 01: Ammunition / BSA 37: Artillery Ammunition						P-1 Line Item Nomenclature: E27501 - Artillery Propellants, Fuzes and Primers, All						Item Nomenclature (Item Number - Item Name, DODIC): ER8021 - ARTY, 155MM PROP CHG, MACS M232 SERIES (DA13)					

Cost Elements († indicates the presence of a P-5A)	ID CD	All Prior Years			FY 2012			FY 2013			FY 2014 Base			FY 2014 OCO			FY 2014 Total		
		Unit Cost (\$)	Quantity (Each)	Total Cost (\$ M)	Unit Cost (\$)	Quantity (Each)	Total Cost (\$ M)	Unit Cost (\$)	Quantity (Each)	Total Cost (\$ M)	Unit Cost (\$)	Quantity (Each)	Total Cost (\$ M)	Unit Cost (\$)	Quantity (Each)	Total Cost (\$ M)	Unit Cost (\$)	Quantity (Each)	Total Cost (\$ M)
Gross Weapon System Cost				549.976			28.417			12.000			-			-			-

P-5 Remarks:

UNCLASSIFIED

Exhibit P-5A, Budget Procurement History and Planning: PB 2014 Army										Date: April 2013		
Appropriation / Budget Activity / Budget Sub Activity: 2034A: Procurement of Ammunition, Army / BA 01: Ammunition / BSA 37: Artillery Ammunition				P-1 Line Item Nomenclature: E27501 - Artillery Propellants, Fuzes and Primers, All				Item Nomenclature: ER8021 - ARTY, 155MM PROP CHG, MACS M232 SERIES (DA13)				
Cost Elements († indicates the presence of a P-21)	O C O	FY	Contractor and Location	Method/Type, or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty (Each)	Unit Cost (\$)	Specs Avail Now?	Date Revsn Avail	RFP Issue Date
†LOAD, ASSEMBLE, PACK (LAP)		2012	GEN DYNAMICS ARMNT & TECH / HAMPTON, AR	C / FFP	PICATINNY ARSENAL, NJ	Sep 2012	Sep 2014	177,000	17.11	Y		
†LOAD, ASSEMBLE, PACK (LAP)		2013	TO BE SELECTED / TBS01	C / FFP	PICATINNY ARSENAL, NJ	Mar 2013	Jan 2016	86,995	20.33	Y		
COMBUSTIBLE CASES - M232A1		2012	ARMTEC DEFENSE PRODUCTS CO / COACHELLA, CA	C / FFP	PICATINNY ARSENAL, NJ	Dec 2012	May 2013	182,352	34.37	Y		
COMBUSTIBLE CASES - M232A1		2013	TO BE SELECTED / TBS01	C / FFP	PICATINNY ARSENAL, NJ	Mar 2013	Sep 2014	89,605	36.17	Y		
PROPELLANT, M31A2		2012	GEN DYNAMICS ORDNANCE AND / SALABERRY-DE- VALLEYFIELD, CANADA	C / FFP	PICATINNY ARSENAL, NJ	Sep 2012	Nov 2013	1,140,000	10.90	Y		
PROPELLANT, M31A2		2013	TO BE SELECTED / TBS01	C / FFP	PICATINNY ARSENAL, NJ	Mar 2013	Nov 2014	419,315	14.23	Y		
CONTAINER, M232A1		2012	DEL FASCO INC DBA DEL FASCO OF / AFTON, TN	C / FFP	ROCK ISLAND ARSENAL, IL	Jul 2012	Dec 2012	36,468	43.00			
CONTAINER, M232A1		2013	TO BE SELECTED / TBS01	C / FFP	ROCK ISLAND ARSENAL, IL	Mar 2013	Mar 2014	18,268	41.69	Y		
IGNITION PROPELLANT, MACS		2012	ST. MARKS POWDER INC. / CRAWFORDVILLE, FL	C / FFP	PICATINNY ARSENAL, NJ	Apr 2012	Apr 2013	28,000	8.70	Y		
IGNITION PROPELLANT, MACS		2013	ST. MARKS POWDER INC. / CRAWFORDVILLE, FL	C / FFP	PICATINNY ARSENAL, NJ	Mar 2013	Mar 2014	5,567	9.58	Y		
BLACK POWDER		2012	GOEX, INC / MINDEN, LA	SS / FFP	ROCK ISLAND ARSENAL, IL	Apr 2012	Apr 2013	10,800	13.79	Y		
BLACK POWDER		2013	GOEX, INC / MINDEN, LA	SS / FFP	ROCK ISLAND ARSENAL, IL	Mar 2013	Mar 2014	5,219	14.08	Y		

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Exhibit P-21, Budget Production Schedule: PB 2014 Army															Date: April 2013														
Appropriation / Budget Activity / Budget Sub Activity: 2034A: Procurement of Ammunition, Army / BA 01: Ammunition / BSA 37: Artillery Ammunition										P-1 Line Item Nomenclature: E27501 - Artillery Propellants, Fuzes and Primers, All										Item Nomenclature: ER8021 - ARTY, 155MM PROP CHG, MACS M232 SERIES (DA13)									

Cost Elements <i>(Units in Thousands)</i>						Fiscal Year 2012												Fiscal Year 2013																
O C C O	M F R #	FY	SERVICE±	PROC QTY	ACCEP PRIOR TO 1 OCT 2011	BAL DUE AS OF 1 OCT	Calendar Year 2012												Calendar Year 2013															
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	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			
LOAD, ASSEMBLE, PACK (LAP)																																		
	1	2012	ARMY	177.000	-	177.000	-	-	-	-	-	-	-	-	-	-	-	A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	177.000
	1	2012	♦ MC	71.100	-	71.100	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	71.100
	1	2012	TOTAL	248.100	-	248.100	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	248.100	
	2	2013	ARMY	86.995	-	86.995	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	86.995	
	2	2013	♦ MC	72.595	-	72.595	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	72.595	
	2	2013	TOTAL	159.590	-	159.590	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	159.590	
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	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			

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Exhibit P-21, Budget Production Schedule: PB 2014 Army																							Date: April 2013									
Appropriation / Budget Activity / Budget Sub Activity:										P-1 Line Item Nomenclature:										Item Nomenclature:												
2034A: Procurement of Ammunition, Army / BA 01: Ammunition / BSA 37: Artillery Ammunition										E27501 - Artillery Propellants, Fuzes and Primers, All										ER8021 - ARTY, 155MM PROP CHG, MACS M232 SERIES (DA13)												
Cost Elements <i>(Units in Thousands)</i>						Fiscal Year 2014													Fiscal Year 2015													
O C C O	M F R #	FY	SERVICE [±]	PROC QTY	ACCEP PRIOR TO 1 OCT 2013	BAL DUE AS OF 1 OCT	Calendar Year 2014													Calendar Year 2015												
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	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	
LOAD, ASSEMBLE, PACK (LAP)																																
1	2012	ARMY	177.000	-	177.000	-	-	-	-	-	-	-	-	-	-	-	-	50.000	-	-	50.000	-	-	50.000	-	-	-	27.000	-			
1	2012	♦ MC	71.100	-	71.100	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	19.500	-	-	19.500	-	-	-	32.100	-			
1	2012	TOTAL	248.100	-	248.100	-	-	-	-	-	-	-	-	-	-	-	-	50.000	-	-	69.500	-	-	69.500	-	-	-	59.100	-			
2	2013	ARMY	86.995	-	86.995	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	86.995			
2	2013	♦ MC	72.595	-	72.595	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	72.595			
2	2013	TOTAL	159.590	-	159.590	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	159.590			
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	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	

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Exhibit P-21, Budget Production Schedule: PB 2014 Army		Date: April 2013
Appropriation / Budget Activity / Budget Sub Activity: 2034A: Procurement of Ammunition, Army / BA 01: Ammunition / BSA 37: Artillery Ammunition	P-1 Line Item Nomenclature: E27501 - Artillery Propellants, Fuzes and Primers, All	Item Nomenclature: ER8021 - ARTY, 155MM PROP CHG, MACS M232 SERIES (DA13)

MFR #	MFR Name - Location	Production Rates (Each / Month)			Procurement Leadtime (Months)							
		MSR	1-8-5	MAX	Initial				Reorder			
					ALT Prior to Oct 1	ALT After Oct 1	Mfg PLT	Total After Oct 1	ALT Prior to Oct 1	ALT After Oct 1	Mfg PLT	Total After Oct 1
1	GEN DYNAMICS ARMNT & TECH - HAMPTON, AR	30.000	50.000	125.000	6	6	24	30	6	6	24	30
2	TO BE SELECTED - TBS01	15.000	25.000	62.000	6	6	24	30	6	6	24	30

‡ Delivery rows marked with the ♦ symbol indicate that they are funded through a separate Line Item. See the respective components' exhibits for details, including the full delivery schedule.
"A" in the Delivery Schedule indicated the Contract Award Date.

Due to space limitations, quantities in the Exhibit P-21 delivery calendar are truncated and rounded based on the maximum quantity in the calendar as follows. If the maximum quantity is less than or equal to than 99,999, all quantities are shown as each. If the maximum quantity is between 100,000 and 99,999,499 all quantities are shown in thousands (rounded to the nearest thousand). If the maximum quantity is greater than 99,999,499 all quantities are shown in millions (rounded to the nearest million).