DEPARTMENT OF THE ARMY

Procurement Programs

Committee Staff Procurement Backup Book
Fiscal Year (FY) 2007 Budget Estimate Submission

PROCUREMENT OF AMMUNITION, ARMY

APPROPRIATION

February 2006
PROCUREMENT OF AMMUNITION, ARMY

APPROPRIATION LANGUAGE

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, Title 10, United States Code, and the land necessary therefor, for the foregoing purposes, and such lands and interests therein, may be acquired, and construction prosecuted thereon prior to approval of title; and procurement and installation of equipment, appliances, and machine tools in public and private plants; reserve plant and Government and contractor-owned equipment layaway; demilitarization of munitions; and other expenses necessary for the foregoing purposes; $1,903,125,000 in fiscal year FY2007 to remain available for obligation until September 30, 2009.

PERFORMANCE METRICS

Performance metrics used in the preparation of this back-up book may be found in the FY 2007 Army Performance Budget Justification Book, dated 1 March 2006.

**SUMMARY OF REQUIREMENTS (In Millions of Dollars)**

<table>
<thead>
<tr>
<th>Appropriation Procurement of Ammunition, Army</th>
<th>FY 2006 Requirements Per FY 2006/07 Budget</th>
<th>FY 2006 Requirements Per FY 2007 Amended Budget</th>
<th>Increase or (Decrease)</th>
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<tr>
<td>Activity 1 - Ammunition</td>
<td>1,576</td>
<td>1,817</td>
<td>241</td>
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<tr>
<td>Activity 2 - Ammunition Production Support</td>
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<td>167</td>
<td>22</td>
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<td>Reimbursable Program</td>
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<td>1,055</td>
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<td>2,776</td>
<td>3,039</td>
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</table>

**EXPLANATION BY ACTIVITY**

**Activity 1 -- Ammunition --** The net increase ($241.0M) is the result of congressional increases ($35.0M) for 40mm, All Types ($+0.5M); Ctg, Tank, 120mm, Tactical, All Types ($+1.0M); Ctg, Artillery, 155mm, All Types ($+2.0M); Modular Artillery Charge System, All Types ($+15.0M); Demolition Munitions, All Types ($+8.2M); and Ammunition Peculiar Equipment ($+8.3M) and Title IX funding ($258.0M) for Ctg, 5.56mm, All Types ($30.0M); Ctg, 7.62mm, All Types ($21.0M); Ctg, .50 Calibre, All Types ($15.0M), Ctg, 20mm, All Types ($6.0M); Ctg, 30mm, All Types ($20.0M); Ctg, 40mm, All Types ($35.0M); Proj, 155mm, Extended Range, XM982 ($4.5M); Modular Artillery Charge System, All Types ($0.6M); Sholder Fired Rockets, All Types ($5.0M); Demolition Munitions, All Types ($2.9M); Signals, All Types ($116.0M); and Simulators, All Types ($2.0M) offset by decreases ($−31.2M) for 81mm Mortars, All Types ($−29.8M) and Ctg, Mortar, 120mm, All Types ($−1.4M), and P.L. 109-148 Undistributed Reduction for Section 8125 ($−5.4M) and 1% reduction ($−15.7M).

**Activity 2 -- Ammunition Production Support --** The net increase ($+22.3M) resulted from Congressional increases for Provision of Industrial Facilities ($+6.6M), and Conventional Ammunition Demilitarization ($+1.8M), Title IX funding for Provision of Industrial Facilities ($+15.0M), and hurricane supplemental funding for Provision of Industrial Facilities ($0.9M) offset by P.L. 109-148 Undistributed Reduction for
Section 8125 ($0.5M) and 1% reduction ($1.5M).

SUMMARY OF REQUIREMENTS (In Millions of Dollars)

<table>
<thead>
<tr>
<th>Appropriation</th>
<th>FY 2006 Requirements Per FY 2007 Budget</th>
<th>FY 2007 Requirements Per FY 2007 Budget</th>
<th>Increase or (Decrease)</th>
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<tr>
<td>Activity 1 - Ammunition</td>
<td>1,817</td>
<td>1,682</td>
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<td>Activity 2 - Ammunition Production Support</td>
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<td>221</td>
<td>54</td>
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<tr>
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<tr>
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<td>3,039</td>
<td>3,000</td>
<td>(39)</td>
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EXPLANATION BY ACTIVITY

Activity 1 -- FY 2007 funding reflects the base program. FY 2006 includes congressional increases and Title IX supplemental funding to support the global war on terrorism.

Activity 2 -- FY 2007 funding includes increased funding for Provision of Industrial Facilities to modernize aging facilities.

Reimbursable Program = FY05 reimbursable program increase for impact of inflation on program.
**DEPARTMENT OF THE ARMY**
**FISCAL YEAR (FY) 2007 PROCUREMENT OF AMMUNITION PROGRAM**

**EXHIBIT P-1**
February 2006

**Appropriation:** **AMMUNITION**

**Activity:** 1. **AMMUNITION**

<table>
<thead>
<tr>
<th>LINE NO.</th>
<th>ITEM NO.</th>
<th>NOMENCLATURE</th>
<th>(DOLS) (THOUSANDS OF DOLLARS)</th>
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<td>(2)</td>
<td>(3)</td>
<td>(4)</td>
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**SMALL/MEDIUM CALIBER AMMUNITION**

|  | CTG, 5.56MM, ALL TYPES (E00700) | A | 229,430 | 170,453 | 214,555 |
|  | CTG, 7.62MM, ALL TYPES (E02000) | A | 107,188 | 95,280 | 113,555 |
|  | CTG, 9MM, ALL TYPES (E03000) | A | 4,890 | 3,965 | 3,848 |
|  | CTG, .50 CAL, ALL TYPES (E08000) | A | 132,047 | 123,567 | 125,112 |
|  | CTG, 20MM, ALL TYPES (E08900) | A | 26,040 | 30,550 | 32,089 |
|  | CTG, 25MM, ALL TYPES (E08200) | A | 24,316 | 37,381 | 19,431 |
|  | CTG, 30MM, ALL TYPES (E08120) | A | 219,300 | 129,409 |
|  | CTG, 40MM, ALL TYPES (E08001) | A | 24,316 | 37,381 | 19,431 |

**MORTAR AMMUNITION**

|  | 60MM MORTAR, ALL TYPES (E89600) | 66,503 | 14,163 | 13,046 |
|  | 81MM MORTAR, ALL TYPES (E76000) | 48,973 | 54,693 | 54,618 |
|  | CTG, MORTAR, 120MM, ALL TYPES (E25500) | B | 113,366 | 60,714 | 66,506 |

**SUB-ACTIVITY TOTAL**

|  | 743,211 | 643,361 | 638,100 |

<p>|  | 228,842 | 129,570 | 134,170 |</p>
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<th>FY 07 COST</th>
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<td>PROJ 155MM EXTENDED RANGE XM982 (EXCALIBUR) (E80100)</td>
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### Appropriation: **AMMUNITION**

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<td>ROCKET, HYDRA 70, ALL TYPES (E34000)</td>
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EXHIBIT P-1
February 2006
## DEPARTMENT OF THE ARMY

FISCAL YEAR (FY) 2007 PROCUREMENT OF AMMUNITION PROGRAM

### EXHIBIT P-1

February 2006

**Appropriation:** **“AMMUNITION”**

**Activity:** 1. **“AMMUNITION”**

<table>
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<th>LINE NO.</th>
<th>ITEM NOMENCLATURE</th>
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## Table of Contents - Procurement of Ammunition, Army

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# Table of Contents - Procurement of Ammunition, Army

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

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

**P-1 Item Nomenclature**
CTG, 5.56MM, ALL TYPES (E00700)

**Date:** February 2006

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**Description:**
This budget line includes 5.56MM ALL TYPES.

FY 2005 and FY 2006 include supplemental funding of $68.588 million and $30.0 million, respectively, to support the global war on terrorism (GWOT).
## Exhibit P-5, Weapon AMMO Cost Analysis

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

**P-1 Line Item Nomenclature:**
CTG, 5.56MM, ALL TYPES (E00700)

**Weapon System Type:**

**Date:**
February 2006

### AMMO Cost Elements

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**E00700**
CTG, 5.56MM, ALL TYPES

Item No. 1 Page 2 of 53

Exhibit P-5
Weapon System Cost Analysis
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**Description:**
The 5.56mm, M200 blank cartridge is used for training and ceremonial purposes in M16 series rifles and M4 series carbines fitted with a blank firing adapter. The cartridge case mouth is "rosette crimp" closed and sealed with lacquer. The cartridge is a single-round carton packed and is Code A, approved for service use.

**Justification:**
This is a training unique item not used in combat. The FY 2007 procurement supports annual training and builds a depot level in accordance with the Army's procurement goals.

**TYPE CLASSIFICATION DATE:** Prior to 1977
### Exhibit P-5, Weapon AMMO Cost Analysis

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

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

**Weapon System Type:** 

**Date:** February 2006

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

**Date:** February 2006

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**Remarks:** The small caliber ammunition strategy consists of four steps. First, maximize Lake City Army Ammunition Plant (LCAAP) to 1.2B cartridges; second, contract for commercial capacity of 300M cartridges; third, increase LCAAP capacity an additional 300M cartridges; and fourth, increase commercial capacity an additional 200M cartridges. This item is included in this acquisition strategy. Commercial capacity requirements will be determined yearly based on total SMCA requirements.

**Note:** This is an average unit cost for multiple producers.
## FY 06 / 07 BUDGET PRODUCTION SCHEDULE

**P-1 ITEM NOMENCLATURE**
CTG 5.56MM BLANK M200 (E01100)  
**Exhibit P-21**

### Date:
February 2006

### FY 06 / 07 BUDGET PRODUCTION SCHEDULE

#### COST ELEMENTS

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# FY 06 / 07 Budget Production Schedule

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

**Date:** February 2006

## Production Schedule

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### Remarks

- **Accelerated production to support the global war on terrorism (GWOT).**

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**MFR**

**Name - Location**

- **MIN**
- **1-8-5**
- **MAX**
- **D+**
- **Reached**
- **MFR**
- **ADMIN LEAD TIME**
- **MFR**
- **TOTAL**
- **REMARKS**

- **General Dynamics, St Petersburg, FL**
- **Alliant Tech (LCAAP), Independence, MO**
- **Poonsan Metal Co, S. Korea**
### FY 08 / 09 BUDGET PRODUCTION SCHEDULE

**Item No. 1**

**Date:** February 2006

**CTG 5.56MM BLANK M200 (E01100)**

**COST ELEMENTS**

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**REMARKS**

Accelerated production to support the global war on terrorism (GWOT).
# FY 08 / 09 Budget Production Schedule

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## Remarks

Accelerated production to support the global war on terrorism (GWOT).
Exhibit P-40, Budget Item Justification Sheet

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

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

Program Elements for Code B Items:

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Description:
The 5.56mm, M200 blank cartridge is linked in belts with the M27 link and is used for training purposes in the M249 machinegun fitted with a blank firing adapter. The cartridge case mouth is "rosette crimp" closed and sealed with lacquer. The 200-round cartridge belts are packed in ammo magazines that attach to the machinegun. It is Code A, approved for service use.

Justification:
This is a training unique item not used in combat. FY 2007 procurement supports annual training and builds a depot level in accordance with the Army's procurement goals.

TYPE CLASSIFICATION DATE: 1983
### Exhibit P-5, Weapon AMMO Cost Analysis

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

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

**Weapon System Type:**
Weapon System Cost Analysis

**Date:**
February 2006

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**REMARKS:**
## FY 06 / 07 BUDGET PRODUCTION SCHEDULE

**P-1 ITEM NOMENCLATURE**
CTG 5.56MM BLANK M200 LINKED F/SAW (E01101)

**Date:** February 2006

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  - Initial
  - Reorder

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  - P
  - A
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  - MFR: Initial
  - Reorder
  - Initial
  - Reorder

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  - P
  - A
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  - MFR: Initial
  - Reorder
  - Initial
  - Reorder

- **R**
  - FY 05
  - AF
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  - Reorder
  - Initial
  - Reorder

- **R**
  - FY 06
  - AF
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- **R**
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  - AF
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- **R**
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  - Initial
  - Reorder

**341.73**
**252.03**
**86.03**

**OCTOBER AS OF**

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**Item No. 1 Page 13 of 53**

Exhibit P-21
Production Schedule
## FY 08 / 09 BUDGET PRODUCTION SCHEDULE

### P-1 ITEM NOMENCLATURE
**CTG 5.56MM BLANK M200 LINKED F/SAW (E01101)**

**Date:** February 2006

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| FY 07 A | 81.70 | 81.70 |
| FY 05 AF| 3.10  | 3.10  |
| FY 06 AF| 2.80  | 2.80  |
| FY 07 AF| 3.50  | 3.50  |
| FY 05 MC| 10.90 | 10.90 |
| FY 06 MC| 7.50  | 7.50  |
| FY 07 MC| 4.10  | 4.10  |
| FY 07 SOF| 0.70 | 0.70 |

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### REMARKS

Shared line for all 5.56mm ammunition produced at Lake City Army Ammunition Plant.
### Exhibit P-40, Budget Item Justification Sheet

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

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

**Date:** February 2006

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

**Justification:**
This is a training standard item used in both training and combat. The FY 2007 procurement supports annual training and builds a war reserve inventory in accordance with the Army’s procurement goals.

**TYPE CLASSIFICATION DATE:** 1982

FY 2005 and FY 2006 include supplemental funding of $31.788 million and $21.630 million, respectively, to support the global war on terrorism.
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REMARKS: THE SMALL CALIBER AMMUNITION STRATEGY CONSISTS OF FOUR STEPS. FIRST, MAXIMIZE LAKE CITY ARMY AMMUNITION PLANT (LCAAP) TO 1.2B CARTRIDGES; SECOND, CONTRACT FOR COMMERCIAL CAPACITY OF 300M CARTRIDGES; THIRD, INCREASE LCAAP CAPACITY AN ADDITIONAL 300M CARTRIDGES; AND FOURTH, INCREASE COMMERCIAL CAPACITY AN ADDITIONAL 200M CARTRIDGES. THIS ITEM IS INCLUDED IN THIS ACQUISITION STRATEGY. COMMERCIAL CAPACITY REQUIREMENTS WILL BE DETERMINED YEARLY BASED ON TOTAL SMCA REQUIREMENTS.

NOTE: THIS IS AN AVERAGE UNIT COST FOR MULTIPLE PRODUCERS
### FY 06 / 07 BUDGET PRODUCTION SCHEDULE

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**Load, Assemble, Pack**

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## FY 06 / 07 BUDGET PRODUCTION SCHEDULE

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CTG 5.56MM BALL M855 F/M16A2 (E04601)

### Date:
February 2006

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- After 1 Oct

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**REMARKS**

- Loaded, Assemble, Pack
- Load, Assemble, Pack
- Later
## FY 08 / 09 BUDGET PRODUCTION SCHEDULE

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CTG 5.56MM BALL M855 F/M16A2 (E04601)

### Date:
February 2006

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| 1     | ALLIANT TECH (LCAAP), INDEPENDENCE, MO | 0.0 | 19.4 | 67.5 | 6 | Initial | 6 | 4 | 9 | 13 | Accelerated production to support GWOT.
| 3     | GENERAL DYNAMICS ORD & TAC, ST PETERSBURG, FL | 0.0 | 5.7 | 14.2 | 0 | Initial | 6 | 9 | 9 | 18 | Initial
| 3     | GENERAL DYNAMICS ORD & TAC, ST PETERSBURG, FL | 0.0 | 5.7 | 14.2 | 0 | Initial | 6 | 9 | 9 | 18 | Initial
| 3     | GENERAL DYNAMICS ORD & TAC, ST PETERSBURG, FL | 0.0 | 5.7 | 14.2 | 0 | Initial | 6 | 9 | 9 | 18 | Initial
| 3     | GENERAL DYNAMICS ORD & TAC, ST PETERSBURG, FL | 0.0 | 5.7 | 14.2 | 0 | Initial | 6 | 9 | 9 | 18 | Initial

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### REMARKS

- Accelerated production to support GWOT.
# Exhibit P-40, Budget Item Justification Sheet

**Appropriation / Budget Activity / Serial No:**

Procurement of Ammunition, Army / 1 / Ammunition

**P-1 Item Nomenclature:**

CTG 5.56MM TRACER M856 F/M16A2 (E04602)

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

**Justification:**
This is a training standard item used in both training and combat. FY 2007 procurement supports annual training and builds a war reserve in accordance with the Army's procurement goals.

**TYPE CLASSIFICATION DATE:** 1982

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February 2006
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Exhibit P-5, Weapon AMMO Cost Analysis

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

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

Weapon System Type: Ammunition

Date: February 2006
### Exhibit P-5a, Budget Procurement History and Planning

**Date:**
February 2006

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

**Weapon System Type:**
CTG 5.56MM TRACER M856 F/M16A2 (E04602)

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

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**REMARKS:**

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E00700 (E04602)
CTG 5.56MM TRACER M856 F/M16A2

Item No. 1 Page 24 of 53

Exhibit P-5a
Budget Procurement History and Planning
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**Total**

| 134.20 | 13.90 | 120.30 | 3.90 | 2.50 | 3.30 | 4.70 | 4.30 | 4.30 |

**M   S   PROC   ACCEP   BAL   DUE**

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**Total**

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**M | F | R  | Name - Location | PRODUCTION RATES | Reached | MFR | ADMIN LEAD TIME | MFR | TOTAL | REMARKS**

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**LOAD, ASSEMBLE, PACK**

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

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

**P-1 Item Nomenclature**
- CTG 5.56MM BALL M855 LINKED F/SAW (E04603)

**Program Elements for Code B Items:**

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

**Justification:**
This is a training unique item not used in combat. FY 2007 procurement supports annual training and builds a depot level in accordance with the Army's procurement goals.

**TYPE CLASSIFICATION DATE:** 1982
## Exhibit P-5, Weapon AMMO Cost Analysis

Appropriation/Budget Activity/Serial No: Procurement of Ammunition, Army/1
Exhibit P-5 Line Item Nomenclature: CTG 5.56MM BALL M855 LINKED F/SAW (E04603)
Weapon System Type: 
Date: February 2006

### AMMO Cost Elements

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**HARDWARE**
- COMPLETE ROUND: 12383 52806 0.23 13437 48127 0.28 11960 45046 0.27
  - H/W SUBTOTAL: 12383 13437 11960

**PRODUCTION SUPPORT COSTS**
- PRODUCTION ENGINEERING: 611 540 452
- QUALITY ASSURANCE: 1 6 13
- ACCEPTANCE TESTING: 105
  - PROD SUPPORT SUBTOTAL: 717 546 465

**NON-RECURRING COSTS**
- SM CAL ENGR INITIATIVES/IMPROVEMENTS: 2500
  - NON-RECURRING SUBTOTAL: 2500

**Total**
- 13100 0.25 13983 0.29 14925 0.33
### Exhibit P-5a, Budget Procurement History and Planning

#### Date:
February 2006

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

**Weapon System Type:**
CTG 5.56MM BALL M855 LINKED F/SAW (E04603)

**P-I Line Item Nomenclature:**
CTG 5.56MM BALL M855 LINKED F/SAW (E04603)

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**Remarks:**
## FY 06 / 07 BUDGET PRODUCTION SCHEDULE

### P-1 ITEM NOMENCLATURE
CTG 5.56MM BALL M855 LINKED F/SAW (E04603)

#### Date:
February 2006

### Exhibit P-21

#### Production Schedule

**FY 06 / 07 BUDGET PRODUCTION SCHEDULE**

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E00700 (E04603)

CTG 5.56MM BALL M855 LINKED F/SAW

Item No. 1 Page 30 of 53

Exhibit P-21

Production Schedule
### FY 08 / 09 Budget Production Schedule

**Date:** February 2006

#### Exhibit P-21

CTG 5.56MM BALL M855 LINKED F/SAW (E04603)

**P-1 Item Nomenclature**

CTG 5.56MM BALL M855 LINKED F/SAW (E04603)

**E00700 (E04603)** Item No. 1 Page 31 of 53

#### Production Schedule

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- Initial
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- Initial
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- Reorder
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### Description:

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

### Justification:

This is a training standard item used in both training and combat. FY 2007 procurement supports annual training and builds a war reserve in accordance with the Army's procurement goals.

**TYPE CLASSIFICATION DATE:** 1982

FY 2005 and FY 2006 include supplemental funding of $26.532 million and $7.0 million, respectively, to support the global war on terrorism.
## Exhibit P-5, Weapon AMMO Cost Analysis

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

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

**Weapon System Type:**

**Date:**
February 2006

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**REMARKS:** THE SMALL CALIBER AMMUNITION STRATEGY CONSISTS OF FOUR STEPS. FIRST, MAXIMIZE LAKE CITY ARMY AMMUNITION PLANT (LCAAP) TO 1.2B CARTRIDGES; SECOND, CONTRACT FOR COMMERCIAL CAPACITY OF 300M CARTRIDGES; THIRD, INCREASE LCAAP CAPACITY AN ADDITIONAL 300M CARTRIDGES; AND FOURTH, INCREASE COMMERCIAL CAPACITY AN ADDITIONAL 200M CARTRIDGES. THIS ITEM IS INCLUDED IN THIS ACQUISITION STRATEGY. COMMERCIAL CAPACITY REQUIREMENTS WILL BE DETERMINED YEARLY BASED ON TOTAL SMCA REQUIREMENTS.

**NOTE:** THIS IS AN AVERAGE UNIT COST FOR MULTIPLE PRODUCERS
### FY 06 / 07 BUDGET PRODUCTION SCHEDULE

#### P-1 ITEM NOMENCLATURE
CTG 5.56MM 4 BALL M855/1 TRACER M856 F/SAW (E04604)

**Date:** February 2006

**COST ELEMENTS**

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### PRODUCTION RATES

### FY 06 / 07 BUDGET PRODUCTION SCHEDULE

**P-1 ITEM NOMENCLATURE**

CTG 5.56MM 4 BALL M855/1 TRACER M856 F/SAW (E04604)

| Date: | February 2006 |

#### COST ELEMENTS

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| FY 06/07 SOF | 0.75 | 0.00 | 0.75 |
| FY 07       | 0.25 | 0.00 | 0.25 |


| FY 06 | 440.25 | 60.10 | 380.15 | 4.66 | 4.70 | 2.90 | 7.20 | 5.20 | 8.90 | 9.40 | 10.50 | 8.40 | 11.00 | 8.30 | 33.29 | 28.67 | 30.79 | 43.19 | 13.19 | 10.89 | 10.88 | 10.86 | 10.88 | 10.06 | 45.81 |

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Later

**CTG 5.56MM 4 BALL M855/1 TRACER M856 F/SAW**

Item No. 1 Page 36 of 53  
Exhibit P-21  
Production Schedule
## FY 08 / 09 BUDGET PRODUCTION SCHEDULE

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### REMARKS

- Later
## FY 08 / 09 BUDGET PRODUCTION SCHEDULE

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### REMARKS

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

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

**P-1 Item Nomenclature**
CTG 5.56MM SHORT RANGE TRNG M862 (E75500)

**Date:** February 2006

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**Description:**
The M862 5.56mm Short Range Training Ammunition (SRTA) cartridge is a plastic practice round used for training purposes with M16 and M4 Series rifles in conjunction with the usage of the M2 training bolt. The M862 cartridge consists of a brass cartridge case, a primer, propellant and a plastic projectile made of a polycarbonate material. The M862 cartridge has a maximum range of 250 meters with a maximum effective range of 25 meters. This item is Code A, approved for service use.

**Justification:**
This is a training unique item not used in combat. FY 2007 procurement supports annual training and builds a depot level in accordance with the Army's procurement goals. This round is use for Military Operations and Urban Terrain (MOUT) operational training.

**TYPE CLASSIFICATION DATE: MARCH 93**

FY 2005 includes supplemental funding of $7.2 million to support the global war on terrorism.
<p>| AMMO Hardware Cost Elements | ID CD | FY 05 | | | FY 06 | | | FY 07 | |
|-----------------------------|------|-------|-------|-------|-------|-------|-------|-------|
| Load, Assemble, Pack (LAP)  |      | 10400 | 28431 | 0.37  | 1511  | 3686  | 0.41  | 1640  | 3905  | 0.42  |
| SubTotal AMMO Hardware      |      | 10400 |       | 1511  |       | 1640  |       |       |       |       |
| Production Engineering      |      | 369   |       | 162   | 146   | 164   | 146   | 10769 | 0.38  | 1673  | 0.45  | 1786  | 0.46  |</p>
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<th>Location of PCO</th>
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REMARKS:
# CTG 5.56MM SHORT RANGE TRNG M862 Production Schedule

## FY 06 / 07 BUDGET PRODUCTION SCHEDULE

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**ReMARKS**

Prior year production in support of GWOT. Developing a second source for FY06 and FY07.

---

E00700 (E75500) CTG 5.56MM SHORT RANGE TRNG M862

Item No. 1 Page 42 of 53 Exhibit P-21 Production Schedule
## FY 08 / 09 BUDGET PRODUCTION SCHEDULE

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## Item No. 1 Page 43 of 53
**Exhibit P-40, Budget Item Justification Sheet**

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

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

**Program Elements for Code B Items:**

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**Description:**
The 5.56mm, M855 Ball cartridge has a bullet with a concealed steel insert and a lead antimony alloy cylindrical core in a copper alloy jacket. A green tip identifies this cartridge and this item is commercially packed. It is used in the M16A2, M16A3/A4 rifle and the M4A1 Carbine. This item is Code A, approved for service use.

**Justification:**
This is a training standard item used in training and combat. However, due to the commercial pack, it is used primarily for CONUS-based training. FY 2007 procurement supports annual training and builds a war reserve inventory in accordance with the Army's procurement goals.

**TYPE CLASSIFICATION DATE:** 1982

FY 2006 includes supplemental funding of $1.37 million to support the global war on terrorism.
### Exhibit P-5, Weapon AMMO Cost Analysis

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

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

#### Weapon System Type:

#### Date:
February 2006

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

**Date:**

February 2006

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REMARKS: THE SMALL CALIBER AMMUNITION STRATEGY CONSISTS OF FOUR STEPS. FIRST, MAXIMIZE LAKE CITY ARMY AMMUNITION PLANT (LCAAP) TO 1.2B CARTRIDGES; SECOND, CONTRACT FOR COMMERCIAL CAPACITY OF 300M CARTRIDGES; THIRD, INCREASE LCAAP CAPACITY AN ADDITIONAL 300M CARTRIDGES; AND FOURTH, INCREASE COMMERCIAL CAPACITY AN ADDITIONAL 200M CARTRIDGES. THIS ITEM IS INCLUDED IN THIS ACQUISITION STRATEGY. COMMERCIAL CAPACITY REQUIREMENTS WILL BE DETERMINED YEARLY BASED ON TOTAL SMCA REQUIREMENTS.
## FY 06 / 07 BUDGET PRODUCTION SCHEDULE

### P-1 ITEM NOMENCLATURE
CTG, 5.56MM Ball, M855 (Commercial Pack) (E95901)

### Date:
February 2006

### COST ELEMENTS

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### REMARKS

- Initial
- Reorder
- Initial
- Reorder
- Initial
- Reorder

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E00700 (E95901)
CTG, 5.56MM Ball, M855 (Commercial Pack)
## FY 08 / 09 BUDGET PRODUCTION SCHEDULE

**P-1 ITEM NOMENCLATURE**
CTG, 5.56MM Ball, M855 (Commercial Pack) (E95901)  
**Date:** February 2006

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**Total:** 423.6  
268.6  
155.0

### PRODUCTION RATES

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<th>F</th>
<th>R</th>
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<th>MFR</th>
<th>TOTAL</th>
<th>REMARKS</th>
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<td>1-8-5</td>
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**E00700 (E95901)**  
CTG, 5.56MM Ball, M855 (Commercial Pack)  
Item No. 1 Page 48 of 53  
Exhibit P-21  
Production Schedule
### Program Elements for Code B Items:

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<th>FY 2007</th>
<th>FY 2008</th>
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<td>12.2</td>
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<td>Initial Spares</td>
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<td>Flyaway U/C</td>
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### Description:

The M995 5.56mm Armor Piercing cartridge is designed for use in the M249 Squad Automatic Weapon (SAW) Machine Gun, the M16 series Rifle and the M4 series Carbine for use against light armored targets. The M995 5.56mm Armor Piercing cartridge is capable of defeating these targets at ranges two to three times that of currently available ammunition. The projectile consists of a tungsten carbide penetrator, which is enclosed by a standard gilding metal jacket. The cartridge uses a conventional brass case and double-base propellant. This item is code A, approved for service use.

### Justification:

This is a war reserve item. FY 2007 procurement builds a war reserve inventory in accordance with the Army's procurement goals.

FY 2005 includes supplemental funding of $3.0 million to support the global war on terrorism.
## Exhibit P-5, Weapon AMMO Cost Analysis

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

**P-1 Line Item Nomenclature:**
CTG 5.56MM ARMOR PIERCING M995 (F47600)

**Weapon System Type:**

**Date:**
February 2006

### AMMO Cost Elements

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

**Appropriation/Budget Activity/Serial No:** Procurement of Ammunition, Army/1 Ammunition  
**Weapon System Type:** CTG 5.56MM ARMOR PIERCING M995 (F47600)  
**P-1 Line Item Nomenclature:** E00700 (F47600)

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<th>Location of PCO</th>
<th>Award Date</th>
<th>Date of First Delivery</th>
<th>QTY x1000</th>
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<th>Date Revsn Avail</th>
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**REMARKS:**
## FY 06 / 07 BUDGET PRODUCTION SCHEDULE

### P-1 ITEM NOMENCLATURE
- CTG 5.56MM ARMOR PIERCING M995 (F47600)
- Date: February 2006

#### COST ELEMENTS

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<td>FY 07 A</td>
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<td>FY 05 P AF</td>
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<td>FY 05 AF</td>
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<tr>
<td>FY 05 P SOF</td>
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| Total | 17.64 | 0.74 | 16.90 | 0.74 | 0.27 | 0.20 | 1.10 | 0.03 | 1.30 | 0.39 | 1.43 | 0.50 | 0.40 | 0.40 | 0.40 | 0.40 | 0.39 | 0.40 | 1.20 | 0.50 | 0.40 | 0.50 | 0.40 | 0.43 | 0.40 | 0.40 | 0.50 | 0.40 | 7.51 |

### PRODUCTION RATES

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<td>1 FY 05 SOF 0.43 0.43</td>
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| TOTAL |
| 17.64 10.13 7.51 0.40 0.40 0.40 0.60 0.50 0.50 0.50 0.50 0.50 0.50 0.50 |

| M FR Name - Location |
| PRODUCTION RATES | Reached MFR ADMIN LEAD TIME MFR TOTAL |
| MIN 1-8.5 MAX D+ | Prior 1 Oct After 1 Oct After 1 Oct After 1 Oct |
| 1 Alliant Tech (LCAAP), Independence, MO 0.00 1.50 4.00 0 Initial 6 6 10 16 |
| 1 Initial Reorder 6 6 10 16 |
| 1 Initial Reorder |
| 1 Initial Reorder |
| 1 Initial Reorder |
| 1 Initial Reorder |
### Description:
This budget line includes 7.62MM ALL TYPES.

FY 2005 and FY 2006 include supplemental funding of $62.3 million and $21.0 million, respectively, to support the global war on terrorism.
### Exhibit P-5, Weapon AMMO Cost Analysis

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

**P-1 Line Item Nomenclature:**
CTG, 7.62MM, ALL TYPES (E02000)

**Weapon System Type:**
CTG, 7.62MM, ALL TYPES

**Date:**
February 2006

#### AMMO Cost Elements

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<th>FY 07</th>
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<td>Unit Cost</td>
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<td></td>
<td>$000 x1000</td>
<td>$</td>
<td>$000 x1000</td>
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<td>CTG 7.62MM ARMOR PIERCING M993</td>
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<td>107188</td>
<td>95280</td>
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**Exhibit P-40, Budget Item Justification Sheet**

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

**P-1 Item Nomenclature**
CTG 7.62MM BLANK M82 LINKED/M13 (E01902)

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<td>Plus CY Adv Proc</td>
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<td></td>
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<tr>
<td>Weapon System Proc U/C</td>
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**Description:**
This cartridge consists of a primer and propellant contained in a brass case shaped to conform to the configuration of the service round. The cartridge case mouth is "Rosette Crimp" closed and sealed with lacquer. The Blank Firing Attachment (BFA) M21 is installed on the M240 machine gun to enable blank ammunition to be fired and to provide backpressure to sustain continuous firing. This item is Code A, approved for service use.

**Justification:**
This is a training unique item not used in combat. FY 2007 procurement supports annual training and builds a depot level in accordance with the Army's procurement goals.

**TYPE CLASSIFICATION DATE:** 1958

FY 2005 includes supplemental funding of $2.3 million to support the global war on terrorism.
## Exhibit P-5, Weapon AMMO Cost Analysis

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

**P-1 Line Item Nomenclature:**
CTG 7.62MM BLANK M82 LINKED/M13 (E01902)

**Weapon System Type:**

**Date:**
February 2006

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

Date: February 2006

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

**Weapon System Type:**
CTG 7.62MM BLANK M82 LINKED/M13 (E01902)

**P-I Line Item Nomenclature:**
CTG 7.62MM BLANK M82 LINKED/M13 (E01902)

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**REMARKS:** THE SMALL CALIBER AMMUNITION STRATEGY CONSISTS OF FOUR STEPS. FIRST, MAXIMIZE LAKE CITY ARMY AMMUNITION PLANT (LCAAP) TO 1.2B CARTRIDGES; SECOND, CONTRACT FOR COMMERCIAL CAPACITY OF 300M CARTRIDGES; THIRD, INCREASE LCAAP CAPACITY AN ADDITIONAL 300M CARTRIDGES; AND FOURTH, INCREASE COMMERCIAL CAPACITY AN ADDITIONAL 200M CARTRIDGES. THIS ITEM IS INCLUDED IN THIS ACQUISITION STRATEGY. COMMERCIAL CAPACITY REQUIREMENTS WILL BE DETERMINED YEARLY BASED ON TOTAL SMCA REQUIREMENTS.

**NOTE:** THIS IS AN AVERAGE UNIT COST FOR MULTIPLE PRODUCERS.
### FY 06 / 07 BUDGET PRODUCTION SCHEDULE

**P-1 ITEM NOMENCLATURE**

CTG 7.62MM BLANK M82 LINKED/M13 (E01902)

**Date:** February 2006

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**E02000 (E01902)**

CTG 7.62MM BLANK M82 LINKED/M13

Item No. 2 Page 6 of 40

Production Schedule
## FY 06 / 07 BUDGET PRODUCTION SCHEDULE

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## FY 08 / 09 Budget Production Schedule

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- **Fiscal Year 08 Total**: 262.48
- **Fiscal Year 09 Total**: 147.48
- **Fiscal Year 08 Total**: 115.00
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**Exhibit P-40, Budget Item Justification Sheet**

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

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

**Date:** February 2006

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**Description:**
This item consists of M80 ball and M62 tracer rounds linked four-to-one and is used in machine gun series M60 and M240. It is intended for use against personnel and non-armor targets. This is Code A, approved for service use.

**Justification:**
This is a training standard item used in both training and combat. FY 2007 procurement supports annual training and builds a war reserve inventory in accordance with the Army's procurement goals.

**TYPE CLASSIFICATION DATE:** 1957

FY 2005 and FY 2006 include supplemental funding of $50.0 million and $21.0 million, respectively, to support the global war on terrorism.
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### Exhibit P-5a, Budget Procurement History and Planning

**Date:** February 2006

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

#### Weapon System Type:
CTG 7.62MM 4 BALL/1 TRACER LINKED (E02002)

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

### WBS Cost Elements:

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**REMARKS:** THE SMALL CALIBER AMMUNITION STRATEGY CONSISTS OF FOUR STEPS. FIRST, MAXIMIZE LAKE CITY ARMY AMMUNITION PLANT (LCAAP) TO 1.2B CARTRIDGES; SECOND, CONTRACT FOR COMMERCIAL CAPACITY OF 300M CARTRIDGES; THIRD, INCREASE LCAAP CAPACITY AN ADDITIONAL 300M CARTRIDGES; AND FOURTH, INCREASE COMMERCIAL CAPACITY AN ADDITIONAL 200M CARTRIDGES. THIS ITEM IS INCLUDED IN THIS ACQUISITION STRATEGY. COMMERCIAL CAPACITY REQUIREMENTS WILL BE DETERMINED YEARLY BASED ON TOTAL SMCA REQUIREMENTS.

**NOTE:** THIS IS AN AVERAGE UNIT COST FOR MULTIPLE PRODUCERS
## FY 06 / 07 BUDGET PRODUCTION SCHEDULE

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

**Date:**
February 2006

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### COST ELEMENTS

| MFR | FY | S | E | R V | PROC | QTY | PRIOR | BAL | DUE AS OF | 1 OCT | 2 FY 05 P | A | 54.00 | 4.30 | 49.70 | 0.16 | 5.20 | 6.10 | 6.20 | 6.20 | 2.50 | 6.20 | 6.04 | 0.00 |
|-----|----|---|---|-----|------|-----|-------|-----|-----------|------|----------|---|------|-----|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
|     | 1  | FY 05 | A  | 46.70 | 0.00 | 46.70 |       |       |            |     |          | 4.00 | 4.00 | 4.00 | 4.00 | 4.00 | 4.00 | 4.00 | 6.70 | 0.00 |
|     | 3  | FY 06 | A  | 34.10 | 0.00 | 34.10 |       |       |            |     |          | 8.00 | 8.00 | 8.00 | 8.00 | 8.00 | 8.00 | 8.00 | 8.00 | 6.40 | 0.00 |
|     | 1  | FY 07 | A  | 58.70 | 0.00 | 58.70 |       |       |            |     |          | 3.00 | 3.00 | 3.00 | 3.00 | 3.00 | 3.00 | 3.00 | 3.00 | 4.10 | 0.00 |
|     | 3  | FY 07 | A  | 19.60 | 0.00 | 19.60 |       |       |            |     |          | 7.00 | 7.00 | 7.00 | 7.00 | 7.00 | 7.00 | 7.00 | 7.00 | 6.20 | 0.00 |
|     | 1  | FY 05 | AF | 3.42  | 0.00 | 3.42  |       |       |            |     |          | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 | 0.26 | 0.00 |
|     | 3  | FY 06 | AF | 1.36  | 0.00 | 1.36  |       |       |            |     |          | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 | 0.00 |
|     | 1  | FY 07 | AF | 1.80  | 0.00 | 1.80  |       |       |            |     |          | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 |
|     | 3  | FY 07 | AF | 0.60  | 0.00 | 0.60  |       |       |            |     |          | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 | 0.00 |
|     | 1  | FY 05 | CG | 0.60  | 0.00 | 0.60  |       |       |            |     |          | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 | 0.00 |
|     | 3  | FY 06 | CG | 0.35  | 0.00 | 0.35  |       |       |            |     |          | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 | 0.00 |
|     | 3  | FY 06 | CG | 0.37  | 0.00 | 0.37  |       |       |            |     |          | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 | 0.00 |

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**E02000 (E02002)**
CTG 7.62MM 4 BALL/1 TRACER LINKED

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Exhibit P-21
Production Schedule
## FY 06 / 07 BUDGET PRODUCTION SCHEDULE

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

### Date:
February 2006

#### Exhibit P-21

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**CTG 7.62MM 4 BALL/1 TRACER LINKED (E02002)**

### FY 06 / 07 BUDGET PRODUCTION SCHEDULE

| MFR | FY    | S E | PROC QTY | ACCEP PRIOR | BAL DUE | O C T | N | D | J | A | N | F | E | A | P | R | Y | M | A | U | L | G | S | E | P | O | C | T | N |
|     |       |     |          |             |         |       |    |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 1   | FY 07 | CG  | 0.00     | 0.00        | 1.08    | A     | 1.08|   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 2   | FY 07 | CG  | 0.00     | 0.00        | 0.36    | A     | 0.36|   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 3   | FY 05 | MC  | 10.63    | 10.63       | 8.84    | A     | 8.84|   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|     |       |     |          |             |         |       |     |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |

### COST ELEMENTS

| MFR | FY    | S E | PROC QTY | ACCEP PRIOR | BAL DUE | O C T | N | D | J | A | N | F | E | A | P | R | Y | M | A | U | L | G | S | E | P | O | C | T | N |
| 1   | FY 07 | CG  | 0.00     | 0.00        | 1.08    | A     | 1.08|   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 2   | FY 07 | CG  | 0.00     | 0.00        | 0.36    | A     | 0.36|   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 3   | FY 05 | MC  | 10.63    | 10.63       | 8.84    | A     | 8.84|   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|     |       |     |          |             |         |       |     |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |

### ADMIN LEAD TIME

| MFR | FY    | S E | PROC QTY | ACCEP PRIOR | BAL DUE | O C T | N | D | J | A | N | F | E | A | P | R | Y | M | A | U | L | G | S | E | P | O | C | T | N |
| 1   | FY 07 | CG  | 0.00     | 0.00        | 1.08    | A     | 1.08|   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 2   | FY 07 | CG  | 0.00     | 0.00        | 0.36    | A     | 0.36|   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 3   | FY 05 | MC  | 10.63    | 10.63       | 8.84    | A     | 8.84|   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
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### REMARKS

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**CTG 7.62MM 4 BALL/1 TRACER LINKED (E02002)**

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**Item No. 2 Page 14 of 40**

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**Exhibit P-21**

**Production Schedule**
## FY 06 / 07 BUDGET PRODUCTION SCHEDULE

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

| Date: | February 2006 |

### Exhibit P-21

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

#### Date: February 2006

**Production Schedule**

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### Admin Lead Time

- **Initial**
- **Reorder**

#### Initial

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Later
## FY 08 / 09 BUDGET PRODUCTION SCHEDULE

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

**Date:**
February 2006

### Exhbit P-21

#### COST ELEMENTS

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**Date:**
February 2006

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**Remarks**

- Reached
- MFR
- Admin Lead Time
- MFR
- Total
- Remarks

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**Remarks**

- Initial
- Reorder
- Initial
- Reorder

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E02000 (E02002)

CTG 7.62MM 4 BALL/1 TRACER LINKED

Item No. 2 Page 17 of 40

Exhibit P-21

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

**Date:** February 2006

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

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

### Program Elements for Code B Items:

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

**Justification:**
This is a training unique item not intended for use in combat. FY 2007 procurement supports annual training and builds a depot level in accordance with the Army's procurement goals.

**TYPE CLASSIFICATION DATE:** 1979
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## Exhibit P-5a, Budget Procurement History and Planning

**Date:** February 2006

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

### Weapon System Type:
CTG 7.62MM BALL M80 LINKED/M13 (E02003)

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

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**Remarks:** The small caliber ammunition strategy consists of four steps. First, maximize Lake City Army Ammunition Plant (LCAAP) to 1.2B cartridges; second, contract for commercial capacity of 300m cartridges; third, increase LCAAP capacity an additional 300m cartridges; and fourth, increase commercial capacity an additional 200m cartridges. This item is included in this acquisition strategy. Commercial capacity requirements will be determined yearly based on total SMCA requirements.

**Note:** This is an average unit cost for multiple producers.
## FY 06 / 07 Budget Production Schedule

### P-1 Item Nomenclature
CTG 7.62mm Ball M80 Linked/M13 (E02003)

### Date:
February 2006

#### Exhibit P-21

## Production Schedule

### Cost Elements

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#### Item No. 2 Page 22 of 40

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CTG 7.62mm Ball M80 Linked/M13

---

E02000 (E02003)
### FY 06 / 07 BUDGET PRODUCTION SCHEDULE

**P-1 ITEM NOMENCLATURE**
CTG 7.62MM BALL M80 LINKED/M13 (E02003)

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|---|---|---|----|---|---|---|---|-----|------|------|-----|
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#### Production Schedule

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### FY 08 / 09 Budget Production Schedule

**Exhibit P-21**

#### Item Nomencature
- CTG 7.62MM BALL M80 LINKED/M13 (E02003)

### Production Schedule

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#### FY 08 / 09 Budget Production Schedule

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**Production Schedule**

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**Exhibit P-21**

CTG 7.62MM BALL M80 LINKED/M13
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Exhibit P-40, Budget Item Justification Sheet

Date: February 2006

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

P-1 Item Nomenclature
CTG 7.62MM 4 BALL/1 TRACER F/MINIGUN (E02006)

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Description:
The 7.62mm M80 Ball Cartridge and M62 Tracer Cartridge are linked in a 4-ball/1-tracer configuration using the M13 metallic links containing 750 cartridges. These cartridges are fired from the M134 Minigun and primarily used against personnel and unarmored targets. The tracer cartridge permits visible observation of the bullet's path to the point of impact allowing for trajectory adjustment. This item is Code A, approved for service use.

Justification:
This is a training standard item used in both training and combat. FY 2007 procurement supports annual training and builds a war reserve inventory in accordance with the Army's procurement goals.

TYPE CLASSIFICATION DATE: 1975
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### REMARKS:
# FY 06 / 07 BUDGET PRODUCTION SCHEDULE

## P-1 ITEM NOMENCLATURE
CTG 7.62MM 4 BALL/1 TRACER F/MINIGUN (E02006)

### Date:
February 2006

## CTG 7.62MM 4 BALL/1 TRACER F/MINIGUN (E02006)

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### Total

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## FY 08 / 09 BUDGET PRODUCTION SCHEDULE

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CTG 7.62MM 4 BALL/1 TRACER F/MINIGUN (E02006)  
Date:  
February 2006

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<td>FY 07 NS</td>
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**Total: 65.70  55.53  10.17  0.80  0.80  0.80  0.80  0.80  0.80  0.90  1.17**

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### REMARKS

- **ALLIANT TECH (LCAAP), INDEPENDENCE, MO**
- 0.00  13.85  47.80  0  
- **Reorder**  6  4  9  13
### Exhibit P-40, Budget Item Justification Sheet

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

**P-1 Item Nomenclature**
CARTRIDGE 7.62MM M118 LONG RANGE (E89100)

#### Program Elements for Code B Items:

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**Description:**
This cartridge is intended for use in the following high accuracy 7.62mm rifles: M14, M21, M24 and M40A1. This is Code A, approved for service use.

**Justification:**
This is a training standard item used in both training and combat. FY 2007 procurement supports annual training and builds a war reserve inventory in accordance with the Army's procurement goals.

**TYPE CLASSIFICATION DATE: PRIOR TO 1997**

FY 2005 includes supplemental funding of $4.0 million to support the global war on terrorism.

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**REMARKS:**
## FY 06 / 07 Budget Production Schedule

**Cartridge 7.62mm M118 Long Range**

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**Total**

- LOAD, ASSEMBLE, PACK: 29.53, 0.37, 29.16
- Initial: 1, 6, 4, 9, 13
- Reorder: 6, 4, 9
- Initial: 1, 6, 4, 9
- Reorder: 6, 4, 9
- Initial: 1, 6, 4, 9
- Reorder: 6, 4, 9
- Initial: 1, 6, 4, 9
- Reorder: 6, 4, 9

**Remarks**

- Initial: 1, 6, 4, 9
- Reorder: 6, 4, 9
- Initial: 1, 6, 4, 9
- Reorder: 6, 4, 9
- Initial: 1, 6, 4, 9
- Reorder: 6, 4, 9
## FY 08 / 09 BUDGET PRODUCTION SCHEDULE

**P-1 ITEM NOMENCLATURE**  
CARTRIDGE 7.62MM M118 LONG RANGE (E89100)  
Date: February 2006

### COST ELEMENTS

| LOAD, ASSEMBLE, PACK |
| 1 | FY 05 P | A | 2.20 | 2.20 |
| 1 | FY 05 | A | 12.70 | 12.70 |
| 1 | FY 06 | A | 3.00 | 3.00 |
| 1 | FY 07 | A | 3.20 | 0.00 | 3.20 | 0.30 | 0.30 | 0.30 | 0.30 | 0.30 | 0.20 | 0.20 | 0.20 | 0.20 | 0.30 |
| 1 | FY 05 P | AF | 0.61 | 0.61 |
| 1 | FY 06 | AF | 0.63 | 0.63 |
| 1 | FY 07 | AF | 0.62 | 0.00 | 0.62 | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 | 0.09 |
| 1 | FY 05 | MC | 0.87 | 0.87 |
| 1 | FY 06 | MC | 2.26 | 2.26 |
| 1 | FY 07 | MC | 1.82 | 0.00 | 1.82 | 0.20 | 0.10 | 0.20 | 0.10 | 0.20 | 0.10 | 0.20 | 0.12 |
| 1 | FY 05 P | NS | 0.23 | 0.23 |
| 1 | FY 05 | NS | 0.30 | 0.30 |
| 1 | FY 06 | SOF | 0.30 | 0.30 |
| 1 | FY 07 | SOF | 0.30 | 0.00 | 0.30 | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 |
| Total | | | 29.53 | 23.10 | 6.43 | 0.80 | 0.50 | 0.80 | 0.50 | 0.79 | 0.40 | 0.66 | 0.30 | 0.50 | 0.50 | 0.44 |

### MFR PRODUCTION RATES

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<td>After 1 Oct</td>
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<td>Plus CY Adv Proc</td>
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<td>Weapon System Proc U/C</td>
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</table>

### Description:

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

### Justification:

This is a training standard item used in both training and combat. FY 2007 procurement supports annual training and builds a war reserve inventory in accordance with the Army's procurement goals.

TYPE CLASSIFICATION DATE: February 1996.

FY 2005 includes supplemental funding of $5.1 million to support the global war on terrorism.
### Exhibit P-5, Weapon AMMO Cost Analysis

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

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

**Weapon System Type:**

**Date:**
- February 2006

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

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

### Weapon System Type:
CTG 7.62MM ARMOR PIERCING M993 (F47500)

### P-I Line Item Nomenclature:
CTG 7.62MM ARMOR PIERCING M993 (F47500)

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**REMARKS:**
## FY 06 / 07 BUDGET PRODUCTION SCHEDULE

### P-1 ITEM NOMENCLATURE

CTG 7.62MM ARMOR PIERCING M993 (F47500)

Date: February 2006


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### Final Remarks

E02000 (F47500)

Item No. 2 Page 39 of 40

CTG 7.62MM ARMOR PIERCING M993

92

Production Schedule
## FY 08 / 09 Budget Production Schedule

### Item Nomencaltration

**CTG 7.62mm Armor Piercing M993 (F47500)**

**Date:** February 2006

### Production Schedule

#### Fiscal Year 08

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E02000 (F47500)

CTG 7.62MM ARMOR PIERCING M993
### Exhibit P-40, Budget Item Justification Sheet

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

**P-1 Item Nomenclature:**
CTG, 9MM, ALL TYPES (EA3000)

**Program Elements for Code B Items:**

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

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**Description:**

This budget line includes .50 CAL ALL TYPES.

FY 2005 and FY 2006 include supplemental funding of $62.894 million and $15.0 million, respectively, to support the global war on terrorism.
### Exhibit P-5, Weapon AMMO Cost Analysis

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

**P-1 Line Item Nomenclature:**
CTG, .50 CAL, ALL TYPES (E08000)

**Weapon System Type:**

**Date:**
February 2006

#### AMMO Cost Elements

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E08000
CTG, .50 CAL, ALL TYPES

Item No. 4 Page 2 of 43 Exhibit P-5

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

### Justification:
This is a training standard item used in both training and combat. FY 2007 procurement supports production engineering for prior year production.

**TYPE CLASSIFICATION DATE:** Mid-1940's

FY 2005 and FY2006 include supplemental funding of $38.1 million and $5.0 million, respectively, to support the global war on terrorism.
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### Exhibit P-5a, Budget Procurement History and Planning

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

#### Weapon System Type:
P-1 Line Item Nomenclature:
CTG CAL .50 LINKED 4 API/1 API TRACER W/M9 LINK (E06903)

#### WBS Cost Elements:
Contract and Location | Contract Method and Type | Location of PCO | Award Date | Date of First Delivery | QNT x1000 | Unit Cost | Specs Avail Now? | Date Revsn Avail | RFP Issue Date
--- | --- | --- | --- | --- | --- | --- | --- | --- | --- | ---
LOAD, ASSEMBLE, PACK

**FY 2005**
- **CONTRACTOR AND LOCATION:** GENERAL DYNAMICS ORD & TAC
  - **LOCATION:** St. Petersburg, FL
- **Contract Method and Type:** SS/FP
- **Location of PCO:** ROCK ISLAND, IL
- **Award Date:** AUG-05
- **Date of First Delivery:** MAR-06
- **QNT x1000:** 5969
- **Unit Cost:** $2.13
- **Specs Avail Now?:** Y

**FY 2005**
- **CONTRACTOR AND LOCATION:** ALLIANT TECH (LCAAP)
  - **LOCATION:** INDEPENDENCE, MO
- **Contract Method and Type:** SS/FP
- **Location of PCO:** ROCK ISLAND, IL
- **Award Date:** AUG-05
- **Date of First Delivery:** NOV-05
- **QNT x1000:** 11160
- **Unit Cost:** $2.13
- **Specs Avail Now?:** Y

**FY 2006**
- **CONTRACTOR AND LOCATION:** GENERAL DYNAMICS ORD & TAC
  - **LOCATION:** St. Petersbg, FL
- **Contract Method and Type:** SS/FP
- **Location of PCO:** ROCK ISLAND, IL
- **Award Date:** JUN-06
- **Date of First Delivery:** MAR-07
- **QNT x1000:** 434
- **Unit Cost:** $2.21
- **Specs Avail Now?:** Y

**FY 2006**
- **CONTRACTOR AND LOCATION:** ALLIANT TECH (LCAAP)
  - **LOCATION:** INDEPENDENCE, MO
- **Contract Method and Type:** SS/FP
- **Location of PCO:** ROCK ISLAND, IL
- **Award Date:** FEB-06
- **Date of First Delivery:** JAN-07
- **QNT x1000:** 1736
- **Unit Cost:** $2.21
- **Specs Avail Now?:** Y

BOX METAL M2A1

**FY 2005**
- **CONTRACTOR AND LOCATION:** BWAY CORPORATION
  - **LOCATION:** ATLANTA, GA
- **Contract Method and Type:** C/FP
- **Location of PCO:** ROCK ISLAND, IL
- **Award Date:** AUG-05
- **Date of First Delivery:** NOV-05
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- **Unit Cost:** $7.65
- **Specs Avail Now?:** Y

**FY 2006**
- **CONTRACTOR AND LOCATION:** BWAY CORPORATION
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- **Award Date:** MAR-06
- **Date of First Delivery:** SEP-06
- **QNT x1000:** 18
- **Unit Cost:** $7.17
- **Specs Avail Now?:** Y

**FY 2006**
- **CONTRACTOR AND LOCATION:** BEST FOAM FAB
  - **LOCATION:** CHICAGO, IL
- **Contract Method and Type:** C/OPTION
- **Location of PCO:** ROCK ISLAND, IL
- **Award Date:** JUN-06
- **Date of First Delivery:** SEP-06
- **QNT x1000:** 4
- **Unit Cost:** $7.17
- **Specs Avail Now?:** Y

**REMARKS:** THE SMALL CALIBER AMMUNITION STRATEGY CONSISTS OF FOUR STEPS. FIRST, MAXIMIZE LAKE CITY ARMY AMMUNITION PLANT (LCAAP) TO 1.2B CARTRIDGES; SECOND, CONTRACT FOR COMMERCIAL CAPACITY OF 300M CARTRIDGES; THIRD, INCREASE LCAAP CAPACITY AN ADDITIONAL 300M CARTRIDGES; AND FOURTH, INCREASE COMMERCIAL CAPACITY AN ADDITIONAL 200M CARTRIDGES. THIS ITEM IS INCLUDED IN THIS ACQUISITION STRATEGY. COMMERCIAL CAPACITY REQUIREMENTS WILL BE DETERMINED YEARLY BASED ON TOTAL SMCA REQUIREMENTS.

**NOTE:** THIS IS AN AVERAGE UNIT COST FOR MULTIPLE PRODUCERS.
### FY 06 / 07 Budget Production Schedule

**Exhibit P-21**

**Load, Assemble, Pack**

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**COST ELEMENTS**

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**Production Schedule**

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**Remarks**

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CTG CAL .50 LINKED 4 API/1 API TRACER W/M9 LINK
## FY 08 / 09 BUDGET PRODUCTION SCHEDULE

**Item No. 4**

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  - Reorder: 6 4 9
- **General Dynamics Ord & Tac, St. Petersburg, FL**
  - Initial: 6 9
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**Date:** February 2006

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**Production Schedule**
## FY 08 / 09 Budget Production Schedule

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- Initial
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### Production Schedule

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### Description:
This item consists of Cartridge Ball M33 linked in 100-round belts with the M9 link for use in either Machine Gun M2 or M3. This round is also used in function test firing of the M2 and M3 Machine Gun. This item is Code A, approved for service use.

### Justification:
This is a training standard item used in both training and combat. FY 2007 procurement supports annual training and builds a war reserve inventory in accordance with the Army's procurement goals.

FA 2006 includes supplemental funding of $5.0 million to support the global war on terrorism.

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- Procurement of Ammunition, Army/1/1 Ammunition

#### Weapon System Type:
- P-1 Line Item Nomenclature:
  - CTG CAL .50 BALL M33 W/M9 LINK (E07100)

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- 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

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**Remarks:** The small caliber ammunition strategy consists of four steps. First, maximize Lake City Army Ammunition Plant (LCAAP) to 1.2B cartridges; second, contract for commercial capacity of 300M cartridges; third, increase LCAAP capacity an additional 300M cartridges; and fourth, increase commercial capacity an additional 200M cartridges. This item is included in this acquisition strategy. Commercial capacity requirements will be determined yearly based on total SMCA requirements.

**Note:** This is an average unit cost for multiple producers.
FY 06 / 07 BUDGET PRODUCTION SCHEDULE
Exhibit P-21

M
F
R

FY

COST ELEMENTS

S

PROC ACCEP

E

QTY

PRIOR

DUE

R
V

x1Mil

TO
1 OCT

AS OF
1 OCT

P-1 ITEM NOMENCLATURE
CTG CAL .50 BALL M33 W/M9 LINK (E07100)

Date:

E08000 (E07100)
CTG CAL .50 BALL M33 W/M9 LINK

Production Schedule

BAL

February 2006

Fiscal Year 06

Fiscal Year 07
Calendar Year 06

O
C
T

N
O
V

D
E
C

0.17

0.90

0.32

J
A
N

F
E
B

M
A
R

A
P
R

M
A
Y

J
U
N

J
U
L

0.42

0.74

0.44

0.74

0.74

0.63

0.38

0.38

0.38

0.34

Calendar Year 07

A
U
G

S
E
P

O
C
T

N
O
V

D
E
C

J
A
N

F
E
B

M
A
R

A
P
R

M
A
Y

J
U
N

J
U
L

A
U
G

S
E
P

0.36

0.15

0.18

0.17

0.17

0.17

0.17

0.18

0.17

0.18

0.18

0.18

0.18

0.18

0.00

0.26

0.26

0.26

0.26

0.26

0.26

0.26

1.28

Later

LOAD, ASSEMBLE, PACK
1

FY 05 P A

5.10

0.00

5.10

2

FY 06

A

4.10

0.00

4.10

5

FY 06

A

3.10

0.00

3.10

5

FY 07

A

1.19

0.00

1.19

2

FY 07

A

3.56

0.00

3.56

2

FY 05 P AF

0.15

0.00

0.15

2

FY 07

AF

0.30

0.00

0.30

2

FY 07

AF

0.23

0.00

0.23

2

FY 06

MC

0.12

0.00

0.12

5

FY 06

MC

0.09

0.00

0.09

2

FY 07

MC

0.23

0.00

0.23

5

FY 07

MC

0.17

0.00

0.17

2

FY 06

NS

1.00

0.00

A

A

FY 06

NS

0.08

0.00

0.08

2

FY 07

NS

0.38

0.00

0.38

5

FY 07

NS

0.13

0.00

0.13

1

0.01

Name - Location

MIN
0.00

1-8-5
0.86

MAX
1.73

0.00
0.30
0.23

A
0.01

A

0.01

0.01

0.01

0.01

0.01

0.01

0.01

A

0.01

0.01

0.01

0.01

0.01

0.00

0.01

0.01

0.01

0.01

0.01

0.03
0.23

A

0.17

A
0.09

A

0.08

0.08

0.08

0.08

0.09

0.09

0.01

A

0.09

0.08

0.01

0.01

0.08

0.08

0.08

0.00

0.01

0.01

0.03
0.38

A

0.13

A
N
O
V

D
E
C

J
A
N

F
E
B

M
A
R

A
P
R

M
A
Y

J
U
N

J
U
L

A
U
G

ADMIN LEAD TIME
D+

ALLIANT TECH (LCAAP), INDEPENDENCE, MO

0.00

5.99

20.77

5

5

GENERAL DYNAMICS ORD & TAC, ST.
PETERSBURG, FL

0.00

0.33

0.83

0

O
C
T

N
O
V

D
E
C

J
A
N

F
E
B

MFR

TOTAL

After 1 Oct

After 1 Oct

After 1 Oct

Initial

6

4

9

13

Reorder

6

4

9

13

2

Initial

6

4

9

13

Reorder

6

4

9

13

5

Initial

6

9

9

18

Reorder

6

9

9

18

1

3

2

S
E
P

Prior 1 Oct

Reached MFR
ISRAEL MILITARY INDUSTRIES, NAZARETH
ILLIT, IS

3.56

0.04

A

PRODUCTION RATES

F
R

0.10

A

O
C
T

M

1.19

A
A

1.00

5

0.00

M
A
R

A
P
R

M
A
Y

J
U
N

J
U
L

A
U
G

S
E
P

REMARKS
LAKE CITY SCHEDULE MAINTAINS
CONTINUITY OF PRODUCTION. FY07
WILL BE PRODUCED WITHIN FDP.

Initial
Reorder
Initial
Reorder

E08000 (E07100)
CTG CAL .50 BALL M33 W/M9 LINK

Item No. 4 Page 13 of 43
108

Exhibit P-21
Production Schedule


### FY 06 / 07 BUDGET PRODUCTION SCHEDULE

**P-1 ITEM NOMENCLATURE**  
CTG CAL .50 BALL M33 W/M9 LINK (E07100)

**Date:** February 2006

**COST ELEMENTS**

| MFR | FY | S | E | R | V  | PROC QTY | ACCEP PRIOR | BAL DUE | O | N | D | C | T | J | A | F | M | A | P | R | Y | N | U | L | G | P | AS OF 1 OCT 1 Mil | TO 1 OCT 1 Mil | 0.17 | 0.35 | 0.09 | 0.12 | 0.08 | 0.12 | 0.13 | 0.14 | Later |
| 1   | FY 05 | SOF | 1.20 | 0.00 | 1.20 | 0.17 | 0.35 | 0.09 | 0.12 | 0.08 | 0.12 | 0.13 | 0.14 | 0.00 |
| 2   | FY 07 | SOF | 0.37 | 0.00 | 0.37 | A   | 0.37 |
| 3   | FY 07 | SOF | 0.13 | 0.00 | 0.13 | A   | 0.13 |

**Total**  
21.63 | 21.63 | 0.17 | 0.90 | 0.45 | 0.52 | 0.90 | 0.90 | 1.24 | 1.25 | 1.11 | 0.36 | 0.15 | 0.28 | 0.26 | 0.26 | 0.26 | 0.26 | 0.56 | 0.53 | 0.56 | 0.55 | 0.54 | 0.55 | 0.55 | 8.03 |

**ADMIN LEAD TIME**

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**REMARKS**

LAKE CITY SCHEDULE MAINTAINS CONTINUITY OF PRODUCTION. FY07 WILL BE PRODUCED WITHIN FDP.
## FY 08 / 09 BUDGET PRODUCTION SCHEDULE

**P-1 ITEM NOMENCLATURE**
CTG CAL .50 BALL M33 W/M9 LINK (E07100)  
**Date:** February 2006

### COST ELEMENTS

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### MFR PRODUCTION RATES

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**TOTAL**

| After 1 Oct | 13 |

**REMINDERS**

- Item No. 4 Page 15 of 43
- Exhibit P-21
- Production Schedule
## FY 08 / 09 Budget Production Schedule

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

**Date:** February 2006

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<th>F</th>
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<th>18-5</th>
<th>MAX</th>
<th>D+</th>
<th>MFR</th>
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#### Admin Lead Time

- Initial: 6
- Reorder: 6
- After 1 Oct: 9
- Prior 1 Oct: 4

#### MFR

- Reached: 0.00
- Admin Lead Time: 0.86
- MAX: 1.73
- D+: 3

### P-1 Item NOMENCLATURE

- CTG CAL .50 BALL M33 W/M9 LINK (E07100)

---

**Item No. 4 Page 16 of 43**

CTG CAL .50 BALL M33 W/M9 LINK

Exhibit P-21

Production Schedule
**Program Elements for Code B Items:**

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<th>FY 2007</th>
<th>FY 2008</th>
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**Description:**

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

**Justification:**

This is a training standard item used in both training and combat. FY 2007 procurement supports annual training and builds a war reserve inventory in accordance with the Army's procurement goals.

**TYPE CLASSIFICATION DATE:** 1968

FY 2005 and FY 2006 include supplemental funding of $12.955 million and $5.0 million, respectively, to support the global war on terrorism.
## Exhibit P-5, Weapon AMMO Cost Analysis

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

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

### Weapon System Type:

### Date:
February 2006

### AMMO Cost Elements

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#### HARDWARE
- LOAD, ASSEMBLE, PACK
  - FY 05: 60082 25892 2.32
  - FY 06: 71191 36508 1.95
  - FY 07: 71267 30753 2.32
- BOX METAL M2A1
  - FY 05: 1931 260 7.41
  - FY 06: 2668 372 7.17
  - FY 07: 2898 314 9.24

**H/W SUBTOTAL**: 62013 73859 74165

#### PRODUCTION SUPPORT COSTS
- PRODUCTION ENGINEERING
  - FY 05: 1208 1108 2560
  - FY 06: 1108 2560
- QUALITY ASSURANCE
  - FY 05: 10 17 7
  - FY 06: 7
- ACCEPTANCE TESTING
  - FY 05: 77
  - FY 06: 7
- PLANT MODERNIZATION
  - FY 05: 1912
  - FY 06: 1912

**PROD SUPPORT SUBTOTAL**: 3207 1125 2567

#### NON-RECURRING COSTS
- SM CAL ENGR INITIATIVES/IMPROVEMENTS
  - FY 05: 400
  - FY 06: 400

**NON-RECURRING SUBTOTAL**: 400 400 400

**Total**: 65220 2.52 74984 2.05 77132 2.51
## Exhibit P-5a, Budget Procurement History and Planning

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

**Weapon System Type:** CTG CAL .50 4 BALL/1 TRACER W/M9 LINK (E07200)

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### BOX METAL M2A1

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| BWAY CORPORATION      |
| ATLANTA, GA           |
| C/FP                 |
| ROCK ISLAND, IL       |
| FEB-05               |
| AUG-05               |
| 260                  |
| 7.41                 |
| Y                    |
| FY 2006              |
| BWAY CORPORATION      |
| ATLANTA, GA           |
| C/OPTION             |
| ROCK ISLAND, IL       |
| MAR-06               |
| SEP-06               |
| 298                  |
| 7.17                 |
| Y                    |
| FY 2006              |
| BEST FOAM FAB        |
| CHICAGO, IL           |
| C/OPTION             |
| ROCK ISLAND, IL       |
| JUN-06               |
| SEP-06               |
| 74                   |
| 7.17                 |
| Y                    |
| FY 2007              |
| BWAY CORPORATION      |
| ATLANTA, GA           |
| C/OPTION             |
| ROCK ISLAND, IL       |
| MAR-07               |
| SEP-07               |
| 251                  |
| 9.24                 |
| Y                    |
| FY 2007              |
| BEST FOAM FAB        |
| CHICAGO, IL           |
| C/OPTION             |
| ROCK ISLAND, IL       |
| JUN-07               |
| SEP-07               |
| 63                   |
| 9.24                 |
| Y                    |

**Remarks:** The small caliber ammunition strategy consists of four steps. First, maximize Lake City Army Ammunition Plant (LCAAP) to 1.2B cartridges; second, contract for commercial capacity of 300M cartridges; third, increase LCAAP capacity an additional 300M cartridges; and fourth, increase commercial capacity an additional 200M cartridges. This item is included in this acquisition strategy. Commercial capacity requirements will be determined yearly based on total SMCA requirements.

**Note:** This is an average unit cost for multiple producers.
## FY 06 / 07 BUDGET PRODUCTION SCHEDULE

### Item No. 4

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

#### Date:
February 2006

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### FY 06 / 07 BUDGET PRODUCTION SCHEDULE

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

| Date: | February 2006 |

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**REMARKS**

- Item No. 4 Page 21 of 43  
- Exhibit P-21  
- Production Schedule
### FY 08 / 09 BUDGET PRODUCTION SCHEDULE

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

**Date:**
February 2006

#### Fiscal Year 08


**Fiscal Year 09**

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## FY 08 / 09 Budget Production Schedule

### P-1 Item Nomenclature

**CTG CAL .50 4 BALL/1 TRACER W/M9 LINK (E07200)**

**Date:** February 2006

### Exhibit P-21

#### Fiscal Year 08

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### Remarks

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

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

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

**Program Elements for Code B Items:**

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

**Justification:**
This is a training unique item not used in combat. FY 2007 procurement supports annual training and builds a depot level in accordance with the Army's procurement goals.

**TYPE CLASSIFICATION DATE:** 1980

FY 2005 includes supplemental funding of $5.6 million to support the global war on terrorism.
## Exhibit P-5, Weapon AMMO Cost Analysis

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

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

**Weapon System Type:**
CTG CAL .50 BLANK M1A1 LKD W/M9 LINK F/M

**Date:**
February 2006

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

**Date:** February 2006

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**REMARKS:** THE SMALL CALIBER AMMUNITION STRATEGY CONSISTS OF FOUR STEPS. FIRST, MAXIMIZE LAKE CITY ARMY AMMUNITION PLANT (LCAAP) TO 1.2B CARTRIDGES; SECOND, CONTRACT FOR COMMERCIAL CAPACITY OF 300M CARTRIDGES; THIRD, INCREASE LCAAP CAPACITY AN ADDITIONAL 300M CARTRIDGES; AND FOURTH, INCREASE COMMERCIAL CAPACITY AN ADDITIONAL 200M CARTRIDGES. THIS ITEM IS INCLUDED IN THIS ACQUISITION STRATEGY. COMMERCIAL CAPACITY REQUIREMENTS WILL BE DETERMINED YEARLY BASED ON TOTAL SMCA REQUIREMENTS.

**NOTE:** THIS IS AN AVERAGE UNIT COST FOR MULTIPLE PRODUCERS.
## FY 06 / 07 Budget Production Schedule

|   |   |   |   |   |   |     |      |   |      |      |            |     |     |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|   |   |   |   |   |   |     |      |   |      |      |            |     |     |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |

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#### Fiscal Year 07

#### Calendar Year 07

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**E080000 (E07302)**

**CTG CAL .50 BLANK M1A1 LKD W/M9 LINK F/M**

Item No. 4 Page 28 of 43 Exhibit P-21 Production Schedule
**Description:**
The Saboted Light Armor Penetrator with Tracer (SLAP-T), M962 cartridge consists of a tungsten alloy penetrator encased in a lightweight plastic sabot of the same mass as the Saboted Light Armor Penetrator (SLAP), M903. It is launched at a much higher velocity than standard rounds. The sabot is designed to break up at the muzzle to release the penetrator. The penetrator base is cored out to accommodate a tracer mix composition. This ammunition is for use in subcaliber devices for tank training. The item is Code A, approved for service use.

**Justification:**
This is a training unique item not used in combat. FY 2007 procurement supports annual training and builds a depot level in accordance with the Army's procurement goals. This round is for use in M1 Abrams Tanks gunnery training using a subcaliber insert.

**TYPE CLASSIFICATION DATE: MARCH 1993**

FY 2005 includes supplemental funding of $1.0 million to support the global war on terrorism.

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

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

**Weapon System Type:**
Ctg, Cal .50 SLAP-T: M962 (E99906)

**P-1 Line Item Nomenclature:**
Ctg, Cal .50 SLAP-T: M962 (E99906)

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<th>Contract Method and Type</th>
<th>Location of PCO</th>
<th>Award Date</th>
<th>Date of First Delivery</th>
<th>QTY x1000</th>
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### REMARKS:
## FY 06 / 07 BUDGET PRODUCTION SCHEDULE

### P-1 ITEM NOMENCLATURE
- **Ctg, Cal .50 SLAP-T: M962 (E99906)**

### Date:
- **February 2006**

#### COST ELEMENTS

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<tr>
<th>M</th>
<th>F</th>
<th>R</th>
<th>E</th>
<th>S</th>
<th>PROC</th>
<th>QTY</th>
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<th>PRIOR</th>
<th>BAL</th>
<th>DUE</th>
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| Date: February 2006 | Production Schedule |

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<td>I FY 05 A</td>
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<td>I FY 07 A</td>
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Total 1710

### ADMIN LEAD TIME

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### REMARKS
- Ctg. Cal .50 SLAP-T, M962 (E99906) is produced on same line as Ctg. Cal .50 SLAP (F88000). Capacity is shared with 4 ball/1 tracer (F88000).
## FY 08 / 09 BUDGET PRODUCTION SCHEDULE

<table>
<thead>
<tr>
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<th>FY</th>
<th>S E</th>
<th>QTY</th>
<th>PROC</th>
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### Fiscal Year 08

#### Calendar Year 08

<table>
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#### MFR

- Reached
- Admin Lead Time
- MFR
- Total

### Fiscal Year 09

#### Calendar Year 09

Load, Assemble, Pack (LAP)

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</table>

REMARKS

- Ctg, Cal .50 SLAP-T, M962 (E99906) is produced on same line as Ctg, Cal .50 SLAP (F88000). Capacity is shared with 4 ball/1 tracer (F88000).

#### Production Rates

- Reached
- MFR
- Admin Lead Time
- MFR
- Total

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<td>80</td>
<td>200</td>
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Item No. 4 Page 33 of 43

Exhibit P-21

Production Schedule
Description:
The item consists of Cartridge, MK211 and Cartridge, M20 Armor Piercing Incendiary Tracer linked 4-to-1 in 100-rounds belts with the M9 link for use in the M2 Machine Gun. The cartridge provides improved penetration performance against light armor vehicles. The projectile consists of a brass jacket surrounding a steel body and tungsten core with incendiary and high explosive charges. This item is Code A, approved for service use.

Justification:
This is a war reserve item. FY 2007 procurement builds a war reserve inventory in accordance with the Army's procurement goals.

TYPE CLASSIFICATION: 1996
## Exhibit P-5, Weapon AMMO Cost Analysis

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

**P-1 Line Item Nomenclature:**
Ctg cal .50 API, MK211, MOD 0, Lkd 4/1 (F47400)

**Weapon System Type:**
Ctg cal .50 API, MK211, MOD 0, Lkd 4/1 (F47400)

**Date:**
February 2006

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<td>Qty</td>
<td>Unit Cost</td>
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<td>Qty</td>
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<td>$</td>
<td>$000 x1000</td>
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### Exhibit P-5a, Budget Procurement History and Planning

**Date:** February 2006

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

**Weapon System Type:**
P-1 Line Item Nomenclature:
Ctg cal .50 API, MK211, MOD 0, Lkd 4/1 (F47400)

**Load, Assemble, Pack**

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<th>Location of PCO</th>
<th>Award Date</th>
<th>Date of First Delivery</th>
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<th>Unit Cost</th>
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**Remarks:**
### FY 06 / 07 Budget Production Schedule

**Exhibit P-21**

**Date:** February 2006

**P-1 Item Nomenclature**

| Ctg cal .50 API, MK211, MOD 0, Lkd 4/1 (F47400) |

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<th><strong>S E</strong></th>
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#### Production Schedule

**Fiscal Year 06**

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| **1** | **FY 06** | **P** | **A** | 4.47    | 2.19      | 2.28   | 0.13  | 0.14  | 0.38  | 0.20  | 0.27  | 0.10  | 0.10  | 0.02  | 0.31  | 0.63  | 0.20  | 0.10  | 0.10  | 0.02  | 0.31  | 0.63  | 0.20  | 0.10  | 0.10  | 0.02  | 0.31  | 0.63  |
| **1** | **FY 05** | **P** | **A** | 0.37    | 0.00      | 0.37   | 0.06  | 0.30  | 0.01  |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |
| **1** | **FY 06** | **A** | **A** | 1.16    | 0.00      | 1.16   |        | 0.10  | 0.09  | 0.09  | 0.10  | 0.10  | 0.10  | 0.10  | 0.10  | 0.10  | 0.10  | 0.10  | 0.10  | 0.10  | 0.10  | 0.10  | 0.10  | 0.10  | 0.10  | 0.10  | 0.10  | 0.10  |
| **1** | **FY 07** | **A** | **A** | 1.20    | 0.00      | 1.20   |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |

Total: 7.20 2.19 5.01 0.13 0.14 0.38 0.20 0.27 0.10 0.10 0.02 0.37 0.30 0.01 0.16 0.09 0.09 0.10 0.10 0.10 0.10 0.10 0.10 0.10 1.20

**Load, Assemble, Pack**

#### Production Rates

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<th><strong>1-8-5</strong></th>
<th><strong>MAX</strong></th>
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**Remarks**

- Initial
- Reorder
**FY 08 / 09 BUDGET PRODUCTION SCHEDULE**

**P-1 ITEM NOMENCLATURE**

Ctg cal .50 API, MK211, MOD 0, Lkd 4/1 (F47400)

**Date:** February 2006

<table>
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<tr>
<th>M</th>
<th>F</th>
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**COST ELEMENTS**

LOAD, ASSEMBLE, PACK

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**COST ELEMENTS**

LOAD, ASSEMBLE, PACK

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**LOAD, ASSEMBLE, PACK**

**REMARKS**

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**DATE:** February 2006
Exhibit P-40, Budget Item Justification Sheet

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

P-1 Item Nomenclature
CTG CAL .50 SLAP M903 (SLAPT M962) (F88000)

Program Elements for Code B Items:

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Description:
The Saboted Light Armor Penetrator (SLAP), M903 cartridge consists of a low-drag, tungsten-alloy penetrator encased in a lightweight plastic sabot loaded into otherwise conventional Caliber .50 cartridge components. The projectile assembly is launched at approximately 4000 feet per second and the sabot is discarded shortly after muzzle exit. The companion M962 SLAP-Tracer cartridge is similar in configuration to the M903 except that the penetrator has a cavity containing tracer mix. The M962 provides the precision of delivery necessary to take full advantage of the penetrator cartridge capability. This ammunition is linked four M903 SLAP to one M962 tracer for use in the M2 Heavy Barrel Machine Gun. The item is Code A, approved for service use.

Justification:
This is a training standard item used in both training and combat. FY 2007 procurement supports annual training and builds a war reserve in accordance with the Army's procurement goals. The SLAP is used in combat against current and future light armored targets and Armored Attack Helicopters (AAHs). The M903 provides the M2 Machine Gun with a more effective capability against improved armored vehicles increasing penetration of light armor by a factor of two to three times at any given range over that of currently available ammunition.

TYPE CLASSIFICATION DATE: MARCH 1993

FY 2005 includes supplemental funding of $4.239 million to support the global war on terrorism.
### Exhibit P-5, Weapon AMMO Cost Analysis

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

**P-I Line Item Nomenclature:** CTG CAL .50 SLAP M903 (SLAPT M962) (F88000)

**Weapon System Type:** 

**Date:** February 2006

#### AMMO

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

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

**Weapon System Type:**
CTG CAL .50 SLAP M903 (SLAPT M962) (F88000)

**P-1 Line Item Nomenclature:**
CTG CAL .50 SLAP M903 (SLAPT M962) (F88000)

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**Remarks:**
## FY 06 / 07 BUDGET PRODUCTION SCHEDULE

**P-1 ITEM NOMENCLATURE**

CTG CAL .50 SLAP M903 (SLAPT M962) (F88000)

**Date:**

February 2006

### COST ELEMENTS

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| Later | 0 | 172 |

### ADMIN LEAD TIME

**MFR**

**Prior 1 Oct**

**After 1 Oct**

**Total**

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**REMARKS**

Capacity is shared with production of Bulk Packed CAL .50 SLAP-T (E99906.)

---

E08000 (F88000)  
CTG CAL .50 SLAP M903 (SLAPT M962)  
Item No. 4 Page 42 of 43  
Exhibit P-21  
Production Schedule
## FY 08 / 09 BUDGET PRODUCTION SCHEDULE

### P-1 ITEM NOMENCLATURE
- **CTG CAL .50 SLAP M903 (SLAPT M962)**
- **(F88000)**

### Date
February 2006

### COST ELEMENTS
- **Load, Assemble, Pack (LAP)**

| M | F | FY R | S E | QTY x1000 | PROC | ACCEP | BAL DUE | N D | O T C | F M A | M J | J A S | O N D | J F M A M J J A S | Later |
|---|---|------|-----|-----------|------|-------|---------|-----|-------|-------|-----|-------|-------|-------|-------|-------|------|
| 1 | FY 05 | P A | 1327 | 1327 |
| 1 | FY 05 | A | 641 | 641 |
| 1 | FY 06 | A | 881 | 709 | 172 | 150 | 22 |
| 1 | FY 07 | A | 980 | 0 | 980 | 128 | 150 | 150 | 150 | 150 | 102 |

**Total**
- 3829
- 2677
- 1152
- 150
- 150
- 150
- 150
- 150
- 150
- 102

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### REMARKS
- Capacity is shared with production of Bulk Packed CAL .50 SLAP-T (E99906.)
Exhibit P-40, Budget Item Justification Sheet

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Program Elements for Code B Items:

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Description:
This budget line includes 20MM ALL TYPES.

FY 2006 includes supplemental funding of $6.0 million to support the global war on terrorism.
### Exhibit P-5, Weapon AMMO Cost Analysis

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

**P-1 Line Item Nomenclature:**
CTG, 20MM, ALL TYPES (E08900)

**Weapon System Type:**

**Date:**
February 2006

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E08900
CTG, 20MM, ALL TYPES

Item No. 5 Page 2 of 6

Exhibit P-5

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

**Justification:**
This is a training standard item used in both training and combat. C-RAM is an air defense system using a trailer-mounted Phalanx gun to defeat incoming rocket, mortar and artillery rounds in flight. The operational scenario requires self destruct ammunition. The Army plans to field approximately 30 systems in FY 2006/2007 and a total of 44 systems by November 2008. The FY 2007 procurement supports engineering in support of production.

Type Classification Date: 1989

FY 2006 includes supplemental funding of $6.0 million to support the global war on terrorism.
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### Exhibit P-5a, Budget Procurement History and Planning

**Date:** February 2006

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<th>Weapon System Type:</th>
<th>P-I Line Item Nomenclature: CTG 20MM MPT-SD M940 (E08909)</th>
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**Remarks:**
## FY 06 / 07 BUDGET PRODUCTION SCHEDULE

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**Date:** February 2006

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<th>R</th>
<th>E</th>
<th>QTY</th>
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### ADMIN LEAD TIME

|-----|-------------|-------------|-------------|-------------|-----|-------------|-------------|-------------|-------------|---------|

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E08900 (E08909)  
CTG 20MM MPT-SD M940  
Production Schedule
Exhibit P-40, Budget Item Justification Sheet

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

**P-1 Item Nomenclature**
CTG, 25MM, ALL TYPES (E08200)

**Program Elements for Code B Items:**

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<tr>
<td>Net Proc P1</td>
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</tr>
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<tr>
<td>Total Proc Cost</td>
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</tr>
<tr>
<td>Flyaway U/C</td>
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</tr>
<tr>
<td>Weapon System Proc U/C</td>
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**Description:**
This budget line includes 25MM ALL TYPES.

FY 2005 includes supplemental funding of $4.523 million to support the global war on terrorism.
<table>
<thead>
<tr>
<th>AMMO</th>
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### Exhibit P-40, Budget Item Justification Sheet

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

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

**Date:**
February 2006

---

**Program Elements for Code B Items:**

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<tr>
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</tr>
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**Justification:**
This is a war reserve item. FY 2007 procurement supports engineering efforts in support of production.

**Type Classification Date:**
1980

**FY 2005 includes supplemental funding of $4.523 million to support the global war on terrorism.**

---

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## Exhibit P-5, Weapon AMMO Cost Analysis

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

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

**Weapon System Cost Analysis**

**Weapon System Type:**

**Date:**
February 2006

### AMMO Cost Elements

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<th>ID</th>
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**AMMUNITION HARDWARE**

- **Load, Assemble, & Pack:**
  - 7728 units, $66.05 per unit

- **PA 125 Containers:**
  - 195 containers, $50.00 per container

**SubTotal AMMO Hardware:**
7923

**PRODUCTION SUPPORT COSTS**

- **Production Engineering:**
  - 1118 units, $599 per unit

**SubTotal Production Support:**
1118

**NON-RECURRING COST**

- **Govt Verification/First Article:**
  - 482 units, $599 per unit

**SubTotal Non-Recurring Costs:**
482

**Total:**
9523

81.39

599

---

E08200 (E08201)  CTG 25MM HEI-T M792  Item No. 6 Page 4 of 16  Exhibit P-5

Weapon System Cost Analysis
## Exhibit P-5a, Budget Procurement History and Planning

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

**Weapon System Type:** CTG 25MM HEI-T M792 (E08201)

**P-1 Line Item Nomenclature:**

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<th>Location of PCO</th>
<th>Award Date</th>
<th>Date of First Delivery</th>
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<th>Unit Cost</th>
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**REMARKS:**

Date: February 2006
## FY 06 / 07 BUDGET PRODUCTION SCHEDULE

### P-1 ITEM NOMENCLATURE
CTG 25MM HEI-T M792 (E08201)

**Date:** February 2006

### LOAD, ASSEMBLE, & PACK

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#### COST ELEMENTS

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**CTG 25MM HEI-T M792**
**Production Schedule**

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**Item No. 6 Page 6 of 16**

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**Exhibit P-21**
Exhibit P-40, Budget Item Justification Sheet

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

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

Program Elements for Code B Items:

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

Justification:
This is a training unique item not used in combat. FY 2007 procurement supports annual training and builds a depot level in accordance with the Army's procurement goals.

TYPE CLASSIFICATION DATE: 1979
### Exhibit P-5, Weapon AMMO Cost Analysis

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

**Weapon System Type:** CTG 25MM TP-T M793 (E08203)

**Date:** February 2006

#### P-1 Line Item Nomenclature:

CTG 25MM TP-T M793 (E08203)

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| C/OPTION             |
| ROCK ISLAND, IL      |
| OCT-05               |
| NOV-05               |
| 18                   |
| 45.00                |
| Y                     |
| FY 2006              |
| TO BE SELECTED       |
| C/FP                 |
| ROCK ISLAND, IL      |
| MAY-06               |
| DEC-06               |
| 27                   |
| 42.32                |
| Y                     |
| FY 2007              |
| TO BE SELECTED       |
| C/FP                 |
| ROCK ISLAND, IL      |
| APR-07               |
| DEC-07               |
| 35                   |
| 47.29                |
| Y                     |

**REMARKS:** NOTE: THIS IS AN AVERAGE UNIT COST FOR MULTIPLE PRODUCERS
## FY 06 / 07 BUDGET PRODUCTION SCHEDULE

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## FY 08 / 09 BUDGET PRODUCTION SCHEDULE

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CTG 25MM TP-T M793 (E08203)  
**Date:** February 2006

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E08200 (E08203)  
CTG 25MM TP-T M793  
Item No. 6 Page 11 of 16  
Production Schedule
Appropriation / Budget Activity / Serial No:
Procurement of Ammunition, Army / 1 / Ammunition

CTG 25MM TPDS-T M910 (E08204)

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

Justification:
This is a training unique item not used in combat. FY 2007 procurement supports annual training and builds a depot level in accordance with the Army's procurement goals.

TYPE CLASSIFICATION DATE: 1988
### Exhibit P-5, Weapon AMMO Cost Analysis

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

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

**Weapon System Type:**

**Date:**
February 2006

### AMMO Cost Elements

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

**Date:** February 2006

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## CONTAINER PA125

| **FY 2005** |
| CONCO INC |
| LOUISVILLE, KY |
| C/OPTION |
| ROCK ISLAND, IL |
| OCT-05 |
| NOV-05 |
| 22 |
| 29.82 |
| Y |
| **FY 2006** |
| TO BE SELECTED |
| C/FP |
| ROCK ISLAND, IL |
| APR-06 |
| MAR-07 |
| 21 |
| 42.32 |
| Y |
| **FY 2007** |
| TO BE SELECTED |
| C/FP |
| ROCK ISLAND, IL |
| APR-07 |
| JAN-08 |
| 25 |
| 47.29 |
| Y |

## REMARKS:
## FY 06 / 07 BUDGET PRODUCTION SCHEDULE

### P-1 ITEM NOMENCLATURE
CTG 25MM TPDS-T M910 (E08204)

**CTG 25MM TPDS-T M910 159 Production Schedule**

**Exhibit P-21**

### FY 06 / 07 BUDGET PRODUCTION SCHEDULE

| Date: February 2006 |

### P-1 ITEM NOMENCLATURE

CTG 25MM TPDS-T M910 (E08204)

**CTG 25MM TPDS-T M910**

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| LOAD, ASSEMBLE, PACK |

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LAP LINES FOR EACH CONTRACTOR ARE SHARED WITH OTHER 25MM ITEMS.
### FY 08 / 09 BUDGET PRODUCTION SCHEDULE

**P-1 ITEM NOMENCLATURE**

CTG 25MM TPDS-T M910 (E08204)

Date: February 2006

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**COST ELEMENTS**

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**REMARKS**

LAP LINES FOR EACH CONTRACTOR ARE SHARED WITH OTHER 25MM ITEMS.
**Exhibit P-40, Budget Item Justification Sheet**

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

**P-1 Item Nomenclature:**
CTG, 30MM, ALL TYPES (ER8120)

**Date:**
February 2006

**Program Elements for Code B Items:**

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Less PY Adv Proc

Net Proc P1: 363.6 24.3 37.4 19.4 18.6 18.9 20.4 20.8 523.4

Initial Spares

Total Proc Cost: 363.6 24.3 37.4 19.4 18.6 18.9 20.4 20.8 523.4

Flyaway U/C

Weapon System Proc U/C

**Description:**
This budget line includes 30MM ALL TYPES.

FY 2005 and FY 2006 includes supplemental funding of $14.628 million and $20.0 million, respectively, to support the global war on terrorism.
### Exhibit P-5, Weapon AMMO Cost Analysis

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

**Weapon System Type:** CTG, 30MM, ALL TYPES (ER8120)

**Date:** February 2006

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**P-1 Line Item Nomenclature:**

CTG, 30MM, ALL TYPES (ER8120)
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### Description:

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

### Justification:

This is a training standard item. FY 2007 procurement supports engineering efforts in support of production.

TYPE CLASSIFICATION DATE: 1962

FY 2005 and FY 2006 includes supplemental funding of $7.162 million and $20.0 million, respectively, to support the global war on terrorism.
## Exhibit P-5, Weapon AMMO Cost Analysis

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

**Weapon System Type:**
Ammunition

**Date:**
February 2006

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<tr>
<th>AMMO Cost Elements</th>
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<th>FY 07</th>
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ER8120 (E09900)
CTG 30MM HEDP M789
Item No. 7 Page 4 of 11

Exhibit P-5
Weapon System Cost Analysis
## Exhibit P-5a, Budget Procurement History and Planning

Appropriation/Budget Activity/Serial No: Procurement of Ammunition, Army/
Weapon System Type: CTG 30MM HEDP M789 (E09900)
P-1 Line Item Nomenclature: CTG 30MM HEDP M789 (E09900)

### WBS Cost Elements:

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<tr>
<th>LOAD, ASSEMBLE, PACK</th>
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<th>Contract Method and Type</th>
<th>Location of PCO</th>
<th>Award Date</th>
<th>Date of First Delivery</th>
<th>QTY x1000</th>
<th>Unit Cost</th>
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*PBXN 5 TYPE II CLASS 3

| FY 2005              | STOCK ISSUE             | N/A                      | N/A             | N/A        | N/A        | 6        | 0.00      |                 |
| FY 2006              | STOCK ISSUE             | N/A                      | N/A             | N/A        | N/A        | 18       | 0.00      |                 |

*PBXN-5 TYPE I CLASS 3

| FY 2005              | STOCK ISSUE             | N/A                      | N/A             | N/A        | N/A        | 0        | 0.00      |                 |
| FY 2006              | STOCK ISSUE             | N/A                      | N/A             | N/A        | N/A        | 0        | 0.00      |                 |

RDX TYPE II CLASS 7

| FY 2006              | TO BE SELECTED          | C/FP                     | ROCK ISLAND, IL | MAR-06     | JUN-06     | 0        | 10.50     | Y               |

*RDX TYPE II CLASS 7

| FY 2005              | STOCK ISSUE             | N/A                      | N/A             | N/A        | N/A        | 0        | 0.00      |                 |

**REMARKS:** * GOVERNMENT FURNISHED MATERIAL
# FY 06 / 07 BUDGET PRODUCTION SCHEDULE

|   |   |     |   |   |     |      |       |     |     |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |

## COST ELEMENTS

**LOAD, ASSEMBLE, PACK**

| 1 |   | FY 05 | P | A | 550 | 400  | 150  | 100 | 50  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 1 |   | FY 06 | A | 97 | 97  | 27   | 100 | 50  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 1 |   | FY 06 | A | 263| 263 | 50   | 50  | 50  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |

## TOTAL

|   |   |     |   |   |     |      |       |     |     |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |

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<td>12</td>
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<td>THIS CARTRIDGE IS IN CRITICAL SHORT SUPPLY. ATK WILL ACCELERATE DELIVERIES TO BEGIN EIGHT MONTHS AFTER CONTRACT AWARD.</td>
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**Exhibit P-40, Budget Item Justification Sheet**

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

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

**Program Elements for Code B Items:**

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

**Justification:**
This is a training unique item not used in combat. FY 2007 procurement supports annual training and builds a depot level in accordance with the Army's procurement goals.

**TYPE CLASSIFICATION DATE:** 1982

FY 2005 includes supplemental funding of $7.466 million to support the global war on terrorism.
### Exhibit P-5, Weapon AMMO Cost Analysis

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

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

**Weapon System Type:**

**Date:** February 2006

#### AMMO Cost Elements

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

**Date:**
February 2006

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### REMARKS:

- COMPLETE ROUND:

- FY 2005: General Dynamics, Marion, IL, C/FP, ROCK ISLAND, IL, JUN-05-Jan-06, 802 units, Unit Cost: $14.49, Specs Avail Now?: Y

- FY 2006: TO BE SELECTED, C/OPTION, ROCK ISLAND, IL, MAR-06-OCT-06, 950 units, Unit Cost: $17.06, Specs Avail Now?: Y

- FY 2007: TO BE SELECTED, C/FP, ROCK ISLAND, IL, MAR-07-OCT-07, 1011 units, Unit Cost: $17.05, Specs Avail Now?: Y
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### COST ELEMENTS

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### COMPLETE ROUND

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### ADMIN LEAD TIME

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<th>MFR</th>
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<td>120</td>
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LAP LINE SHARED WITH OTHER 30MM ITEMS.
**Exhibit P-40, Budget Item Justification Sheet**

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

**P-1 Item Nomenclature**
CTG, 40MM, ALL TYPES (ER8001)

**Date:**
February 2006

<table>
<thead>
<tr>
<th>Program Elements for Code B Items:</th>
<th>Code:</th>
<th>Other Related Program Elements:</th>
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<th>FY 2006</th>
<th>FY 2007</th>
<th>FY 2008</th>
<th>FY 2009</th>
<th>FY 2010</th>
<th>FY 2011</th>
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**Description:**
This budget line includes 40MM ALL TYPES.

**Justification:**
FY 2005 and FY 2006 include supplemental funding of $104.2 million and $35.0 million, respectively, to support the global war on terrorism. An additional congressional add of $.5 million in FY 2006 supports day/night training cartridge.
## Exhibit P-5, Weapon AMMO Cost Analysis

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

**P-1 Line Item Nomenclature:**
CTG, 40MM, ALL TYPES (ER8001)

**Weapon System Type:**

**Date:**

**February 2006**

### AMMO Cost Elements

<table>
<thead>
<tr>
<th>ID</th>
<th>FY 05</th>
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<th>FY 07</th>
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<tbody>
<tr>
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<td>Qty</td>
<td>Unit Cost</td>
</tr>
<tr>
<td></td>
<td>$000</td>
<td>x1000</td>
<td>$</td>
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<tr>
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<tr>
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<tr>
<td>CTG 40MM PRACTICE M385A1</td>
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**Total**

219300 | 176165 | 129409
P-40 Item Nomenclature
CTG 40MM HEDP M430 F/MK19 MG (E11800)

Program Elements for Code B Items:

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

Justification:
This is a war reserve item used in both training and combat. FY 2007 procurement supports annual training and builds a war reserve inventory in accordance with the Army's procurement goals.

TYPE CLASSIFICATION DATE: 1971

FY 2005 and FY 2006 include supplemental funding of $20.971 million and $25.0 million, respectively, to support the global war on terrorism.
## Exhibit P-5, Weapon AMMO Cost Analysis

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

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

### Weapon System Type:

### Date:
February 2006

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<thead>
<tr>
<th>AMMO Cost Elements</th>
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### Exhibit P-5a, Budget Procurement History and Planning

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**REMARKS:** NOTE: THIS IS AN AVERAGE UNIT COST FOR MULTIPLE PRODUCERS.
## FY 06 / 07 BUDGET PRODUCTION SCHEDULE

### COST ELEMENTS

|     |    |   |   |   |     |      |       |     |          |            |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|     |    |   |   |   |     |      |       |     |          |            |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |

### COMPLETE ROUND

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### MFR

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<td>Reorder</td>
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### ADMIN LEAD TIME

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<tr>
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### MFR

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</table>
## FY 06 / 07 BUDGET PRODUCTION SCHEDULE

### COST ELEMENTS

| M | F | R | FY | S | E | PROC | O | C | T | N | D | E | V | F | M | A | P | R | Y | J | U | L | G | A | P | R | M | A | Y | J | U | L | G | P |
| 1 |   |   | FY 05 P | NS | 0.21 | 0.00 | 0.21 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 3 |   |   | FY 05 | NS | 0.08 | 0.00 | 0.08 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 2 |   |   | FY 05 | NS | 0.10 | 0.00 | 0.10 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 1 |   |   | FY 06 | NS | 0.06 | 0.00 | 0.06 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 1 |   |   | FY 06 | NS | 0.05 | 0.00 | 0.05 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 1 |   |   | FY 05 P | SOF | 0.03 | 0.00 | 0.03 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 3 |   |   | FY 07 | SOF | 0.02 | 0.00 | 0.02 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 2 |   |   | FY 07 | SOF | 0.02 | 0.00 | 0.02 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |

**Total**

|       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 5.70  | 0.06  | 5.64  | 0.02  | 0.07  | 0.04  | 0.20  | 0.42  | 0.52  | 0.52  | 0.24  | 0.24  | 0.40  | 0.91  | 1.15  | 0.91  |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |

### ADMIN LEAD TIME

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**Remarks**

REVISED ACQUISITION STRATEGY WILL SHORTEN LEADTIMES. THE NEW ACQUISITION STRATEGY IS A RESULT OF SYSTEMS CONTRACTING VERSUS THE PREVIOUS COMPONENT BREAKOUT BUYS. ACCELERATED SCHEDULES ARE BEING DEVELOPED.
## FY 08 / 09 BUDGET PRODUCTION SCHEDULE

### COST ELEMENTS

| 1 | FY 05 | P | A | 0.39 | 0.39 | 0.39 | Reached | MFR | Admin Lead Time | MFR | Prior 1 Oct | After 1 Oct | MFR | Prior 1 Oct | After 1 Oct | MFR | Prior 1 Oct | After 1 Oct | MFR | Prior 1 Oct | After 1 Oct | Remarks |
| 2 | FY 05 | A | 0.50 | 0.50 | 0.50 | Reached | MFR | Admin Lead Time | MFR | Prior 1 Oct | After 1 Oct | MFR | Prior 1 Oct | After 1 Oct | MFR | Prior 1 Oct | After 1 Oct | MFR | Prior 1 Oct | After 1 Oct | Remarks |
| 3 | FY 05 | A | 0.61 | 0.61 | 0.61 | Reached | MFR | Admin Lead Time | MFR | Prior 1 Oct | After 1 Oct | MFR | Prior 1 Oct | After 1 Oct | MFR | Prior 1 Oct | After 1 Oct | MFR | Prior 1 Oct | After 1 Oct | Remarks |
| 4 | FY 06 | A | 0.44 | 0.44 | 0.44 | Reached | MFR | Admin Lead Time | MFR | Prior 1 Oct | After 1 Oct | MFR | Prior 1 Oct | After 1 Oct | MFR | Prior 1 Oct | After 1 Oct | MFR | Prior 1 Oct | After 1 Oct | Remarks |
| 5 | FY 06 | A | 0.36 | 0.36 | 0.36 | Reached | MFR | Admin Lead Time | MFR | Prior 1 Oct | After 1 Oct | MFR | Prior 1 Oct | After 1 Oct | MFR | Prior 1 Oct | After 1 Oct | MFR | Prior 1 Oct | After 1 Oct | Remarks |
| 6 | FY 06 | A | 0.07 | 0.07 | 0.07 | Reached | MFR | Admin Lead Time | MFR | Prior 1 Oct | After 1 Oct | MFR | Prior 1 Oct | After 1 Oct | MFR | Prior 1 Oct | After 1 Oct | MFR | Prior 1 Oct | After 1 Oct | Remarks |
| 7 | FY 07 | A | 0.06 | 0.06 | 0.06 | Reached | MFR | Admin Lead Time | MFR | Prior 1 Oct | After 1 Oct | MFR | Prior 1 Oct | After 1 Oct | MFR | Prior 1 Oct | After 1 Oct | MFR | Prior 1 Oct | After 1 Oct | Remarks |

### COMPLETE ROUND

1. **FY 05 P**
   - A: Reached
   - MFR: Admin Lead Time
   - MFR: Total
   - Remarks: Revised Acquisition Strategy will shorten leadtimes. The new acquisition strategy is a result of systems contracting versus the previous component breakout buys. Accelerated schedules are being developed.
## FY 08 / 09 BUDGET PRODUCTION SCHEDULE

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

**Date:** February 2006

### COST ELEMENTS

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**Fiscal Year 08**

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### REMARKS

REVISED ACQUISITION STRATEGY WILL SHORTEN LEADTIMES. THE NEW ACQUISITION STRATEGY IS A RESULT OF SYSTEMS CONTRACTING VERSUS THE PREVIOUS COMPONENT BREAKOUT BUYS. ACCELERATED SCHEDULES ARE BEING DEVELOPED.
Exhibit P-40, Budget Item Justification Sheet

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

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

Program Elements for Code B Items:

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

Justification:
This is a training standard item used in both training and combat. FY 2007 procurement supports annual training and builds a war reserve inventory in accordance with the Army's procurement goals.

TYPE CLASSIFICATION DATE: 1985
## Exhibit P-5, Weapon AMMO Cost Analysis

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

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

**Weapon System Type:**
- (Blank)

**Date:**
- February 2006

### AMMO Cost Elements

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

### Date:
February 2006

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**REMARKS:** NOTE: THIS IS AN AVERAGE UNIT COST FOR MULTIPLE PRODUCERS.
## FY 06 / 07 BUDGET PRODUCTION SCHEDULE

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## FY 06 / 07 BUDGET PRODUCTION SCHEDULE

**CTG 40MM WHITE STAR PARA M583 (E12000)**

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### P-1 ITEM NOMENCLATURE

- CTG 40MM WHITE STAR PARA M583 (E12000)
- ER8001 (E12000)

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### Remark

REVISED ACQUISITION STRATEGY WILL SHORTEN LEADTIMES. THE NEW ACQUISITION STRATEGY IS A RESULT OF SYSTEMS CONTRACTING VERSUS PREVIOUS COMPONENT BREAKOUT BUYS. ACCELERATED SCHEDULES ARE BEING DEVELOPED.

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**Total:** 14.0 / 2 27.0 / 2 13.0 / 2 27.0 / 2

**Remarks:**

REVISED ACQUISITION STRATEGY WILL SHORTEN LEADTIMES. THE NEW ACQUISITION STRATEGY IS A RESULT OF SYSTEMS CONTRACTING VERSUS PREVIOUS COMPONENT BREAKOUT BUYS. ACCELERATED SCHEDULES ARE BEING DEVELOPED.
## FY 08 / 09 BUDGET PRODUCTION SCHEDULE

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## FY 08 / 09 BUDGET PRODUCTION SCHEDULE

### P-1 ITEM NOMENCLATURE
CTG 40MM WHITE STAR PARA M583 (E12000)

#### Date:
February 2006

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### REVISION OF ACQUISITION STRATEGY WILL SHORTEN LEAD TIMES. THE NEW ACQUISITION STRATEGY IS A RESULT OF SYSTEMS CONTRACTING VERSUS PREVIOUS COMPONENT BREAKOUT BUYS. ACCELERATED SCHEDULES ARE BEING DEVELOPED.
Exhibit P-40, Budget Item Justification Sheet

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

P-1 Item Nomenclature
CTG 40MM PRACTICE M385A1 (E12502)

Program Elements for Code B Items:  

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Description:
This cartridge is a fixed round of ammunition consisting of a one-piece solid aluminum projectile body with copper rotating band. The cartridge case is a bi-chambered aluminum cylinder with vents connecting the chambers. The propellant chamber is sealed with a base plug. A percussion primer (FED 215) is crimped into the center of the base plug. This item is Code A, approved for service use.

Justification:
This is a training unique item not used in combat. FY 2007 procurement supports annual training and builds a depot level in accordance with the Army's procurement goals.

TYPE CLASSIFICATION DATE: 1987
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## Exhibit P-5a, Budget Procurement History and Planning

**Date:** February 2006

### Appropriation/Budget Activity/Serial No:
Procurement of Ammunition, Army 1/4 Ammunition

### Weapon System Type:
CTG 40MM PRACTICE M385A1

### P-I Line Item Nomenclature:
ER8001 (E12502)

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| **PROJ M385** |
| FY 2005 | AVASAR Corp Perry, FL | C/FP ROCK ISLAND, IL | JUL-05 | MAR-06 | 98 | 3.95 | Y |
| FY 2006 | AVASAR Corp Perry, FL | C/OPTION ROCK ISLAND, IL | MAR-06 | MAR-07 | 144 | 6.44 | Y |
| FY 2007 | AVASAR Corp Perry, FL | C/OPTION ROCK ISLAND, IL | MAR-07 | MAR-08 | 127 | 4.70 | Y |

### REMARKS:

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ER8001 (E12502)  
CTG 40MM PRACTICE M385A1  
Item No. 8 Page 19 of 41  
190  
Budget Procurement History and Planning
## Cost Elements

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**Total** 1096 1096 580 516

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### COST ELEMENTS

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**ADMIN LEAD TIME**

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**REMARKS**

REVISED ACQUISITION STRATEGY WILL SHORTEN LEAD-TIMES. THE NEW ACQUISITION STRATEGY IS A RESULT OF SYSTEMS CONTRACTING VERSUS THE PREVIOUS COMPONENT BREAKOUT BUYS. ACCELERATED SCHEDULES ARE BEING DEVELOPED.

---

**Production Schedule**

Item No. 8 Page 21 of 41
### Exhibit P-40, Budget Item Justification Sheet

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

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

**Program Elements for Code B Items:**

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

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

**Type Classification Date:** 1971

FY 2005 and FY 2006 include supplemental funding of $1.083 million and $10.0 million, respectively, to support the global war on terrorism.
### Exhibit P-5, Weapon AMMO Cost Analysis

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

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

**Weapon System Type:**

**Date:**
February 2006

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## FY 06 / 07 BUDGET PRODUCTION SCHEDULE

**Exhibit P-21**

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

**Date:** February 2006

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**Flyaway U/C**

**Weapon System Proc U/C**

**Description:**
The 40MM Target Practice (TP) cartridge for the MK19 Machine Gun is a high velocity training projectile with realistic signature effects providing sufficient flash, smoke, and sound upon impact to be seen/heard out to 1200-meters. In addition to providing audible/visual signature for day or night firing, the TP for MK19 gun will minimize hazards to troops in the training area. This item is Code A, approved for service use.

**Justification:**
This is a training unique item not used in combat. FY 2007 procurement supports annual training and builds a depot level in accordance with the Army's procurement goals.

This cartridge is required since firing the standard service 40mm high-explosive dual-purpose (HEDP) M430 cartridge is prohibited at many training ranges. The M918 allows frequent and safe MK 19 MOD 3 40mm Grenade Machine Gun and M129 Grenade Launcher training.

**TYPE CLASSIFICATION DATE:** 1985

FY 2005 includes supplemental funding of $81.694 million to support the global war on terrorism.
## Exhibit P-5, Weapon AMMO Cost Analysis

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

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

**Weapon System Type:**

**Date:** February 2006

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**Date:** February 2006

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**REMARKS:** NOTE: THIS IS AN AVERAGE UNIT COST FOR MULTIPLE PRODUCERS.
## FY 06 / 07 Budget Production Schedule

**P-1 Item Nomenclature**  
CTG 40MM TP M918 LINKED F/MK19 MG (E71100)  
**Date:** February 2006

### Exhibit P-21

**CTG 40MM TP M918 LINKED F/MK19 MG**

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Later

## Later
## FY 06 / 07 BUDGET PRODUCTION SCHEDULE

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

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### Date:
February 2006

### COST ELEMENTS

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|     |    |   |   |   |   |          |                      |                    |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |

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### Remarks
REVISED ACQUISITION STRATEGY WILL SHORTEN LEADTIMES. THE NEW ACQUISITION STRATEGY IS A RESULT OF SYSTEMS CONTRACTING VERSUS THE PREVIOUS COMPONENT BREAKOUT BUYS. ACCELERATED SCHEDULES ARE BEING DEVELOPED.
## FY 08 / 09 BUDGET PRODUCTION SCHEDULE

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

### Date:
February 2006

### Production Schedule

#### Fiscal Year 08

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### COST ELEMENTS

#### LOAD, ASSEMBLE, PACK

| FY 05 P | A | 4.80 | 0.00 |
| FY 05 P | A | 1.30 | 0.00 |
| FY 05 A | 2.25 | 0.00 |
| FY 05 A | 2.76 | 0.00 |
| FY 06 A | 1.97 | 0.00 |
| FY 06 A | 2.40 | 0.00 |
| FY 07 A | 1.61 | 0.00 |
| FY 07 A | 1.32 | 0.00 |
| FY 05 AF | 0.07 | 0.00 |
| FY 06 AF | 0.04 | 0.00 |
| FY 06 AF | 0.04 | 0.00 |
| FY 07 AF | 0.04 | 0.00 |
| FY 07 AF | 0.04 | 0.00 |
| FY 05 P SOF | 0.04 | 0.00 |
| FY 07 SOF | 0.04 | 0.00 |
| FY 07 SOF | 0.04 | 0.00 |

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### REMARKS

REVISED ACQUISITION STRATEGY WILL SHORTEN LEAD TIMES. THE NEW ACQUISITION STRATEGY IS A RESULT OF SYSTEMS CONTRACTING VERSUS THE PREVIOUS COMPONENT BREAKOUT BUYS. ACCELERATED SCHEDULES ARE BEING DEVELOPED.
## FY 08 / 09 BUDGET PRODUCTION SCHEDULE

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| Date: | February 2006 |

**P-1 ITEM NOMENCLATURE**

CTG 40MM TP M918 LINKED F/MK19 MG (E71100)
**Exhibit P-40, Budget Item Justification Sheet**

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

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

**Program Elements for Code B Items:**

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<td><strong>Net Proc P1</strong></td>
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<td><strong>Flyaway U/C</strong></td>
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**Description:**
The M781 is a low-cost, unfuzed, fixed-round of practice ammunition ready for use as issued and is compatible with the M79 and M203 Grenade Launchers. The cartridge case is made of plastic material and the projectile is also plastic with an aluminum-rotating band. The ogive is made of a frangible plastic material and contains a colored dye in granular form, the consistency of talcum powder, which is used to generate a signature. The propulsion system consists of a standard .38 caliber blank. This item is Code A, approved for service use.

**Justification:**
This is a training unique item not used in combat. FY 2007 procurement supports annual training and builds a depot level in accordance with the Army's procurement goals.

**TYPE CLASSIFICATION DATE:** 1978
### Exhibit P-5, Weapon AMMO Cost Analysis

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

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

**Weapon System Type:**

**Date:**
February 2006

**Weapon System Type:**

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REMARKS: This is an average unit cost for multiple producers.
## FY 06 / 07 BUDGET PRODUCTION SCHEDULE

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### REMARKS

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---

CTG 40MM PRACTICE M781

Item No. 8 Page 36 of 41

Exhibit P-21

Production Schedule
## FY 06 / 07 BUDGET PRODUCTION SCHEDULE

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### Production Rates

- **Mast Tech, Independence, MO**: MIN 0.00, 1-8.5 0.23, MAX 0.50, D+ 0
- **Teknocraft Inc, Melbourne, FL**: MIN 0.00, 1-8.5 0.05, MAX 0.25, D+ 0
- **AMTECH Corp., Janesville, WI**: MIN 0.00, 1-8.5 0.23, MAX 0.46, D+ 0
- **DSE Inc. (Balimoy), Tampa, FL**: MIN 0.00, 1-8.5 0.23, MAX 0.46, D+ 0

### Remarks

- Revised Acquisition Strategy will shorten leadtimes. New Acquisition strategy is a result of systems contracting versus the component breakout buy. Accelerated schedules are being developed.
## FY 08 / 09 BUDGET PRODUCTION SCHEDULE

### P-1 ITEM NOMENCLATURE
CTG 40MM PRACTICE M781 (E74200)

### Date:
February 2006

#### COST ELEMENTS

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|-------|--------|-------------|

### COMPLETE ROUND

|   |   |   |   |   |   |   |   |   |   |   |   |   |

### PRODUCTION RATES

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<th>D+</th>
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<th>MFR</th>
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<th>TOTAL</th>
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### ADMIN LEAD TIME

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### MFR | TOTAL | After 1 Oct |
|-------|--------|-------------|

### REMARKS

REVISED ACQUISITION STRATEGY WILL SHORTEN LEADTIMES. NEW ACQUISITION STRATEGY IS A RESULT OF SYSTEMS CONTRACTING VERSUS THE COMPONENT BREAKOUT BUY. ACCELERATED SCHEDULES ARE BEING DEVELOPED.
## FY 08 / 09 BUDGET PRODUCTION SCHEDULE

### MFR Name - Location | Production Rates | Reached MFR | Admin Lead Time | MFR | Total | Remarks
---|---|---|---|---|---|---
1 Mast Tech, Independence, MO | 0.00 0.23 0.50 0 | 1 Initial | 6 6 13 19 | 6 6 10 16 | REvised Acquisition Strategy Will Shorten Leadtimes. New Acquisition Strategy is a Result of Systems Contracting Versus the Component Breakout Buy. Accelerated Schedules Are Being Developed.
2 Teknocrate Inc, Melbourne, FL | 0.00 0.05 0.25 0 | 2 Initial | 6 6 10 16 | 6 6 13 19 | 3 AMTECH Corp., Janesville, WI
3 AMTECH Corp., Janesville, WI | 0.00 0.23 0.46 0 | 3 Initial | 6 6 13 19 | 6 6 4 10 | 4 DSE Inc. (Balimoy), Tampa, FL
4 DSE Inc. (Balimoy), Tampa, FL | 0.00 0.23 0.46 0 | 4 Initial | 6 7 19 26 | 6 6 4 10 | |
## FY 10 / 11 BUDGET PRODUCTION SCHEDULE

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<th>FY</th>
<th>S</th>
<th>E</th>
<th>QTY</th>
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### Remarks

- Complete Round
- MFR
- Name - Location

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## FY 10 / 11 BUDGET PRODUCTION SCHEDULE

### P-1 ITEM NOMENCLATURE
CTG 40MM PRACTICE M781 (E74200)

| Date: February 2006 |

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## Exhibit P-40, Budget Item Justification Sheet

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

**P-1 Item Nomenclature**
60MM MORTAR, ALL TYPES (E89600)

### Program Elements for Code B Items:

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<tr>
<th>Code:</th>
<th>Other Related Program Elements:</th>
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<tbody>
<tr>
<td>P-1 Item Nomenclature</td>
<td>60MM MORTAR, ALL TYPES (E89600)</td>
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### Prior Years FY 2005 FY 2006 FY 2007 FY 2008 FY 2009 FY 2010 FY 2011 To Complete Total Prog

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**Description:**

This line includes 60mm Mortar Ammunition, All Types.

FY 2005 includes supplemental funding of $27.0 million to support the global war on terrorism.
<table>
<thead>
<tr>
<th>Cost Elements</th>
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Exhibit P-40, Budget Item Justification Sheet

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

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

Program Elements for Code B Items:

| Code: | A |

Other Related Program Elements:

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<th>FY 2007</th>
<th>FY 2008</th>
<th>FY 2009</th>
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**Description:**
The M769 60mm Full Range Practice Round is designed for use with the M224 Lightweight Company Mortar System (LWCMS) in all light infantry battalions including Airborne, Air Assault and Ranger. The M769 is a low-cost, full-range, practice round that will replace a percentage of the standard High Explosive (HE) rounds used in 60mm mortar training. It consists of a M775 point detonating practice fuze which simulates the multi-option fuze and provides flash, bang and smoke; a steel body that approximates the shape of the 60mm HE service round; and a fin assembly, ignition cartridge and propelling charge that make up the propulsion system. This item is code A, approved for service use.

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

TYPE CLASSIFICATION DATE: Sep 2001

FY 2005 includes supplemental funding of $9.0 million to support the global war on terrorism.
## Exhibit P-5, Weapon AMMO Cost Analysis

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

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

### Weapon System Type: 

### Date: 
February 2006

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

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

#### Weapon System Type:
CTG, MORTAR, 60MM, PRACTICE, M769 (E92200)

#### P-I Line Item Nomenclature:
CTG, MORTAR, 60MM, PRACTICE, M769 (E92200)

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**REMARKS:**
1. Shell bodies for the M720A1, M768 and M769 are combined on one contract. The M769 is a different configuration than the M720A1 and M768.
2. 60mm Mortar Horizontal Component Integration (HCI) hardware is as follows: M702 Ignition Cartridge, M235 Prop Charge and M27 fin.
## FY 05 / 06 BUDGET PRODUCTION SCHEDULE

### COST ELEMENTS

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- Initial
- Reorder
- Initial
- Reorder
- Initial
- Reorder
## Exhibit P-21

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### Description:

The 60MM Mortar High Explosive/Point Detonating (HE/PD) cartridges are designed for use with the M224 Lightweight Company Mortar System (LWCMS) in all light infantry battalions including Airborne, Air Assault and Ranger. It uses the new M783 dual-safety, point-detonating/delay fuze. It also uses PAX-21 insensitive explosive fill, and a new fuze adapter and packaging that will enable the round to meet most insensitive munitions requirements. Lethality is maintained by using a high-fragmentation, steel (HF-1) shell body. The tail assembly and propulsion system will be common to all other 60mm rounds. This round will be used primarily in training because it is significantly less expensive than the M720A1, the preferred war-fighting round. However, the M768 is highly lethal and can be used in combat. This item is code A, approved for service use.

### Justification:

This is a training standard item used in both training and combat. FY 2007 procurement supports annual training requirements and builds a war reserve inventory in accordance with the Army's procurement goals.

**TYPE CLASSIFICATION DATE:** Nov 2001.

FY 2005 includes supplemental funding of $10.0 million to support the global war on terrorism.
### Exhibit P-5, Weapon AMMO Cost Analysis

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

**Weapon System Type:** CTG MORTAR 60MM HE M768 W/M783PD FUZE

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

**Date:** February 2006

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

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

**Weapon System Type:**
CTG MORTAR 60MM HE M768 W/M783PD FUZE (E92900)

**P-I Line Item Nomenclature:**
CTG MORTAR 60MM HE M768 W/M783PD FUZE (E92900)

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**Date:** February 2006
### Exhibit P-5a, Budget Procurement History and Planning

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

**Weapon System Type:**  
CTG MORTAR 60MM HE M768 W/M783PD FUZE (E92900)

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

**Date:**  
February 2006

**Remarks:**  
1. LAP for the M720A1, and M768 share the same contract.
2. Shell bodies for the M720A1, M768 and M769 are combined on one contract.
3. 60mm Mortar Horizontal Component Integration (HCI) hardware are as follows: M702 Ignition Cartridge, M235 Prop Charge and M27 fin. HCI components are procured on the same contract.
4. Load, Assemble, Pack (LAP) acquisition strategy beginning in FY06 includes procurement of items previously order under separate contract.

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## FY 06 / 07 Budget Production Schedule

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

### Cost Elements

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**Total**

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### Production Rates

**MFR**

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- To Be Selected

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### Remarks

Production is alternated between the M720A1 and M768.
### FY 08 / 09 BUDGET PRODUCTION SCHEDULE

#### P-1 ITEM NOMENCLATURE
CTG MORTAR 60MM HE M768 W/M783PD FUZE (E92900)

**Date:**
February 2006

**CTG MORTAR 60MM HE M768 W/M783PD FUZE (E92900)**

**E89600 (E92900) Item No. 9 Page 13 of 18 Exhibit P-21**

**CTG MORTAR 60MM HE M768 W/M783PD FUZE**

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**Calendar Year 08**

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Production is alternated between the M720A1 and M768.

**CTG MORTAR 60MM HE M768 W/M783PD FUZE**

Item No. 9 Page 13 of 18

Exhibit P-21

Production Schedule
### Exhibit P-40, Budget Item Justification Sheet

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

**P-1 Item Nomenclature**
CTG, MORTAR, 60MM HE, M720A1 w/M734A1 MO FUZE (E93900)

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**Other Related Program Elements:**

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**Description:**
The M720A1 60mm High Explosive (HE) cartridge with multi-option fuze is designed for use with the M224 Lightweight Company Mortar System (LWCMS) in all light infantry battalions including Airborne, Air Assault and Ranger. The round is used against personnel and materiel providing both fragmentation and blast effect. This round uses a new insensitive main charge explosive called PAX-21. Additional changes have been made to the fuze adaptor, packaging and fuze explosive charge. Lethality is maintained by using a high fragmentation steel (HF-1) shell body. The M720A1 also incorporates the highly reliable and countermeasure resistant M734A1 multi-option fuze. When the fuze is set in the proximity mode, it functions at a height over the target that is optimized for lethality. The M720A1 is Code A, approved for service use.

**Justification:**
This is a training standard item used in both training and combat. FY 2007 procurement supports engineering efforts to meet insensitive munitions requirements.

**TYPE CLASSIFICATION DATE:** Nov 01

FY 2005 includes supplemental funding of $8.0 million to support the global war on terrorism.
### Exhibit P-5, Weapon AMMO Cost Analysis

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

**P-1 Line Item Nomenclature:**
CTG, MORTAR, 60MM HE, M720A1 w/M734A1 MO FUZE (E93900)

**Weapon System Type:**

**Date:**
February 2006

#### AMMO Cost Elements

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**AMMUNITION HARDWARE**

- **Load, Assemble, and Pack (LAP)**
  - 1221 28 43 123 3 42
- **Shell Body - HF1**
  - 1201 30 41 131 3 43
- **Fuze, Multi-Option M734A1**
  - 6503 30 219 613 3 202
- **Ignition Cartridge M702**
  - 439 30 15 46 3 15
- **Propelling Charge M235**
  - 508 44 12 142 12 12
- **Fin Assembly M27**
  - 159 30 5 17 3 5

**SubTotal AMMO Hardware:**

- 10031 1072

**Production Support Cost**

- **Production Engineering**
  - 2136 909
- **Quality Assurance**
  - 968 391
- **Acceptance Testing**
  - 334 177
- **Interim Transportation**
  - 84 48

**SubTotal Prod. Support:**

- 3522 1525

**Non-Recurring Cost**

- **Insensitive Munitions (IM) Compliance**
  - 2753

**Sub Total Non-Recurring Cost:**

- 2753

**Total:**

- 13553 476 2597 889 2753
## Exhibit P-5a, Budget Procurement History and Planning

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

### Weapon System Type:
CTG, MORTAR, 60MM HE, M720A1 w/M734A1 MO FUZE (E93900)

### P-1 Line Item Nomenclature:
CTG, MORTAR, 60MM HE, M720A1 w/M734A1 MO FUZE (E93900)

#### WBS Cost Elements:

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**REMARKS:**

1.  LAP for the M720A1, and M768 share the same contract.
2.  Shell bodies for the M720A1, M768 and M769 are combined on one contract.
3.  60mm Mortar Horizontal Component Integration (HCI) hardware are as follows:  M702 Ignition Cartridge, M235 Prop Charge and M27 fin. HCI components are procured on the same contract.
4.  The M734A1 fuze utilizes HCI and is common to the 60mm HE, 120mm HE and 120mm WP Smoke.
5.  Load, Assemble, Pack (LAP) acquisition strategy beginning in FY06 includes procurement of items previously order under separate contract.
## FY 06 / 07 BUDGET PRODUCTION SCHEDULE

### P-1 ITEM NOMENCLATURE
CTG, MORTAR, 60MM HE, M720A1 w/M734A1 MO FUZE (E93900)

| Date: | February 2006 |

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Production is alternated between the M720A1 and M768.
### FY 08 / 09 BUDGET PRODUCTION SCHEDULE

#### P-1 ITEM NOMENCLATURE
CTG, MORTAR, 60MM HE, M720A1 w/M734A1 MO FUZE (E93900)

#### Date:
February 2006

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#### REMARKS
Production is alternated between the M720A1 and M768.
## Exhibit P-40, Budget Item Justification Sheet

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<th>Procurement of Ammunition, Army / 1 / Ammunition</th>
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<th>81MM MORTAR, ALL TYPES (E76000)</th>
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### Program Elements for Code B Items:

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### Prior Years FY 2005 FY 2006 FY 2007 FY 2008 FY 2009 FY 2010 FY 2011 To Complete Total Prog

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<td>Plus CY Adv Proc</td>
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<tr>
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<tr>
<td>Weapon System Proc U/C</td>
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### Description:

This includes 81mm Mortar Ammunition, All Types.

FY 2005 includes supplemental funding of $44.4 million to support the global war on terrorism.
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**Exhibit P-40, Budget Item Justification Sheet**

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

**Justification:**
This is a training standard item used in both training and combat. FY 2007 procurement supports annual training and builds a war reserve inventory in accordance with the Army's procurement goals.

**Type Classification Date:** July 1991
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Exhibit P-5, Weapon AMMO Cost Analysis
Appropriation/Budget Activity/Serial No: Procurement of Ammunition, Army/ 1/ Ammunition
P-1 Line Item Nomenclature: CTG MORTAR 81MM HE M821 W/NO FUZE (E18403)
Weapon System Type: Date: February 2006
## Exhibit P-5a, Budget Procurement History and Planning

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**REMARKS:**
## FY 06 / 07 BUDGET PRODUCTION SCHEDULE

### P-1 ITEM NOMENCLATURE
- CTG MORTAR 81MM HE M821 W/MO FUZE (E18403)

### Date:
- February 2006

### COST ELEMENTS

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**Total**
- 144

**Remarks**
- Production is alternated between the M821A1 and M889A1.
# FY 08 / 09 BUDGET PRODUCTION SCHEDULE

**P-1 ITEM NOMENCLATURE**  
CTG MORTAR 81MM HE M821 W/MO FUZE (E18403)  

**Date:** February 2006

## Item Nominal

| CTG MORTAR 81MM HE M821 W/MO FUZE (E18403) |

## Production Schedule

### FY 08 / 09 BUDGET PRODUCTION SCHEDULE

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### Description:

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

### Justification:

This is a training standard item used in both training and combat. FY 2007 procurement supports annual training and builds a war reserve inventory in accordance with the Army's procurement goals.

TYPE CLASSIFICATION DATE: July 1991

FY 2005 includes supplemental funding of $1.4 million.
Exhibit P-5, Weapon AMMO Cost Analysis

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

P-1 Line Item Nomenclature: CARTRIDGE 81MM M889 IUK W/M935 PD FUZE (E18404)

Weapon System Type: 

Date: February 2006

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E76000 (E18404)
CARTRIDGE 81MM M889 IUK W/M935 PD FUZE

Item No. 10 Page 9 of 33
Exhibit P-5
Weapon System Cost Analysis
**Exhibit P-5a, Budget Procurement History and Planning**

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**REMARKS:** Contracts will be awarded for 60mm/81mm HE LAP and other component buys in FY 2006. FY 2007 will be option awards to contracts awarded in FY 2006.
## FY 06 / 07 BUDGET PRODUCTION SCHEDULE

**DATE:** February 2006

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CARTRIDGE 81MM M889 IUK W/M935 PD FUZE (E18404)

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### MFRs

- Initial
- Reorder

### REMARKS

- Production is alternated between the M821A1 and M889A1.
- FY07 production will be a reorder on the 81mm HE LAP contract to be awarded in FY06.
### FY 08 / 09 BUDGET PRODUCTION SCHEDULE

**Item No. 10**

**Date:** February 2006

**P-1 ITEM NOMENCLATURE**

CARTRIDGE 81MM M889 IUK W/M935 PD FUZE (E18404)

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**Load, Assemble, Pack (LAP)**

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**Load, Assemble, Pack (LAP)**

**MFR**

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Production is alternated between the M821A1 and M889A1.
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### Justification:

This is a training unique item. FY 2007 procurement supports annual training and builds a depot level in accordance with the Army's procurement goals.

**TYPE CLASSIFICATION DATE:** August 1986

FY 2005 includes supplemental funding of $2.7 million.
## Exhibit P-5, Weapon AMMO Cost Analysis

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

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

**Weapon System Type:** Ammunition

**Date:** February 2006

### AMMO Cost Elements

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**AMMUNITION HARDWARE**

- **Load, Assemble, Pack (LAP)**: 7292 (68) 108 3247 (29) 110
- **Shell Body**: 4296 (70) 61 1913 (31) 62
- **Fuze, Training**: 1755 (70) 25 781 (31) 25
- **Ignition Cartridge**: 2929 (70) 42 1304 (31) 43
- **Propellant Charge**: 2247 (277) 8 1000 (121) 8
- **Fin Assembly**: 2253 (70) 32 1003 (31) 33

**Production Support Costs**

- **Production Engineering**: 2100 2140
- **Quality Assurance**: 800 1169
- **Acceptance Testing**: 916 523
- **Interim Transportation**: 285 290

**COST - Nonrecurring**

- **First Article Testing**: 1713
- **Production Quality & Verification Tests**: 1000
- **Material Change**: 2700

**SubTotal COST - Nonrecurring**: 2700 2713

**Total**: 2700 27586 409 13370 453
### Exhibit P-5a, Budget Procurement History and Planning

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

**Weapon System Type:** CARTRIDGE 81MM IMP TRNG FULL RANGE M879 (E69600)

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

**Date:** February 2006

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**REMARKS:**
# FY 06 / 07 Budget Production Schedule

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

### Date:
February 2006

### Exhibit P-21

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### Production Schedule

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### Remarks

**To Be Selected**

- Reorder: 3 / 6 / 18 / 24

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E76000 (E69600)

Item No. 10 Page 16 of 33

Exhibit P-21

CARTRIDGE 81MM IMP TRNG FULL RANGE M879

246

Production Schedule
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| Total | 97    | 97  |

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**Production Schedule**

*Date: February 2006*

*Exhibit P-21*

*Item No. 10 Page 17 of 33*
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**Description:**
The M853A1 81mm Illumination Cartridge with Mechanical Time - Super Quick (MTSQ) Fuze is designed for use with the M252 81mm Light Battalion Mortar System, currently fielded to all Light Infantry units in the Army. The M252 system will also be included in the Stryker Brigade Combat Teams (SBCT). The round is used to illuminate targets during night operations. The round consists of a two-piece body filled with illuminating flare, M772 MTSQ fuze and tail assembly. The round is range-matched to the 81mm high explosive (HE) and smoke cartridges. This item is code A, approved for service use.

**Justification:**
This is a training standard item used in both training and war reserve. FY 2007 procurement supports annual training and builds a war reserve inventory in accordance with the Army's procurement goals.

**TYPE CLASSIFICATION DATE:** December 1986
## Exhibit P-5, Weapon AMMO Cost Analysis

**Exhibit P-5, Weapon AMMO Cost Analysis**

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

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

**Weapon System Type:**

**Date:**
February 2006

### AMMO Cost Elements

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**HARDWARE**

- LOAD, ASSEMBLE, PACK
  - 1749 8 210
- PROP CHG M219
  - 84 35 2
- CONTAINER ASSY M205
  - 42 14 3
- *CONTAINER ASSY M205
  - 107 35
- IGN CTG M752
  - 243 9 28
- *M9 FLAKE .010 (LB)
  - 7 35
- FUZE M772
  - 1515 9 175
- M29 FIN F/81MM
  - 169 9 20
- ILLUM CANDLE
  - 1019 9 117

**H/W SUBTOTAL**

4893 2093 1226

**PRODUCTION SUPPORT COSTS**

- PRODUCTION ENGINEERING
  - 375 391
- QUALITY ASSURANCE
  - 9 5
- ACCEPTANCE TESTING
  - 255 228

**PROD SUPPORT SUBTOTAL**

639 624 1679

**NON-RECURRING COSTS**

- *GOVERNMENT FURNISHED MATERIAL
  - -114

**NON-RECURRING SUBTOTAL**

-114 -4 -2

**Total**

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Exhibit P-5a, Budget Procurement History and Planning

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REMARKS: * Government Furnished Material
## FY 06 / 07 BUDGET PRODUCTION SCHEDULE

### P-1 ITEM NOMENCLATURE
- CTG, MORTAR, 81MM VISUAL LIGHT (VL) ILLUM M853A1 (E76100)

### Date:
February 2006

### Exhibit P-21

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E76000 (E76100)
CTG, MORTAR, 81MM VISUAL LIGHT (VL) ILLUM M853A1

Item No. 10 Page 22 of 33

Exhibit P-21
Production Schedule
## FY 08 / 09 Budget Production Schedule

**P-1 Item Nomenclature**
CTG, MORTAR, 81MM VISUAL LIGHT (VL) ILLUM M853A1 (E76100)  
**Date:** February 2006

### COST ELEMENTS

#### LOAD, ASSEMBLE, PACK

| M  | F | R | FY | S   | E   | QTY | PROC | ACCEP | BAL  | DUE | TO 1 OCT | 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  |
|----|---|---|----|-----|-----|-----|------|-------|------|-----|----------|-------------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
|    |   |   |    |     |     |     |      |       |      |     |          |         |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
|    |   |   |    |     |     |     |      |       |      |     |          |         |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 1  | FY 05 | P | A  | 33 | 33 |     |      |       |      |     |          |         |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 1  | FY 05 | A  | 8  | 8  |     |      |       |      |     |          |         |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 1  | FY 06 | A  | 3  | 3  |     |      |       |      |     |          |         |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 1  | FY 07 | A  | 2  | 0  | 2   |      |       |      |     |          |         |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 1  | FY 05 | P | AF | 2  | 2   |     |      |       |      |     |          |         |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 1  | FY 05 | AF | 1  | 1  |     |      |       |      |     |          |         |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 1  | FY 06 | AF | 1  | 1  |     |      |       |      |     |          |         |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 1  | FY 07 | AF | 1  | 0  | 1   |     |      |       |      |     |          |         |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 1  | FY 05 | MC | 59 | 59 |     |      |       |      |     |          |         |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 1  | FY 07 | MC | 18 | 0  | 18  |     |      |       |      |     |          |         |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |

**Total:** 128 107 21

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**LOAD, ASSEMBLE, PACK**

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

**Date:** February 2006

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

### P-1 Item Nomenclature
CTG MORTAR 81MM SMOKE RP M819 (E76200)

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### Description:
The M819 Red Phosphorous (RP) Smoke cartridge is designed for use with the M252 81mm Mortar Weapon System. The round is used to provide smoke for various screening uses. It consists of a body with RP pellets, fuze, and tail assembly. The M819 uses the highly reliable M772 Mechanical Time Super Quick (MTSQ) fuze. This item is code A, approved for service use. This cartridge was modified to prevent out-gassing of phosphine while in storage. Gas Absorbent Modules (GAMS) have been added to rounds in storage to minimize potential exposure to gas.

### Justification:
This is a training standard item and is used both in training and war reserve.

**TYPE CLASSIFICATION DATE:** December 1986

FY 2005 includes supplemental funding of $14.9 million to support the global war on terrorism.
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## Exhibit P-5a, Budget Procurement History and Planning

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

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

**P-1 Item Nomenclature**
CTG, MORTAR, 81MM INFRARED (IR) ILLUM M816 (E90000)

**Program Elements for Code B Items:**

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**Description:**
The M816 81mm Infrared Illumination Cartridge with Mechanical Time - Super Quick (MTSQ) Fuze is designed for use with the M252 81mm Mortar Weapon System, currently fielded to the Stryker Brigade Combat Teams and all light infantry units in the Army. The round is used to illuminate targets during night operations. Infrared illumination greatly enhances the effectiveness of night vision devices. The round consists of a 2-piece body filled with an illuminating flare, M772 MTSQ fuze and tail assembly. The round is ballistically similar to the 81mm High Explosive (HE) and smoke cartridges. This item is Code A, approved for service use.

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

FY 2007 procurement supports annual training and builds a war reserve inventory in accordance with the Army's procurement goals.

**TYPE CLASSIFICATION DATE:** September 2001

FY 2005 includes supplemental funding of $20.0 million to support the global war on terrorism.
## Exhibit P-5, Weapon AMMO Cost Analysis

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

**P-1 Line Item Nomenclature:**
- CTG, MORTAR, 81MM INFRARED (IR) ILLUM M816
- (E90000)

**Weapon System Type:**
- CTG, MORTAR, 81MM INFRARED (IR) ILLUM M816

**Date:**
- February 2006

### AMMO Cost Elements

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- **Load, Assemble, and Pack**
  - 2006: 8368, 30: 284, 1: 177, 1: 294
- **Body Tube and Tail Cone**
  - 2006: 1225, 31: 40, 1: 41, 1: 41
- **Fuze M772 MTSQ**
- **IR Canister Assembly**
- **Parachute**
  - 2006: 688, 31: 22, 13, 1: 15, 1: 23
- **Ignition Cartridge M752**
- **Propellant Charge M219**
  - 2006: 1461, 121: 12, 27, 2: 12, 31, 2: 13
- **Fin Assembly M29**

**SubTotal AMMO Hardware**
- 2006: 22301, 408, 473

#### Production Support Costs

- **Production Engineering**
  - 2006: 1527, 1054, 1108
- **Quality Assurance**
  - 2006: 489, 249, 253
- **Acceptance Testing**
  - 2006: 174, 89, 90
- **Interim Transportation**
  - 2006: 62, 32, 32

**SubTotal Prod. Support**
- 2006: 2252, 1424, 1483

**Total**
- 2006: 24553, 1832, 3451, 1956, 3244
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### Exhibit P-5a, Budget Procurement History and Planning

**Date:** February 2006

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

**Weapon System Type:** CTG, MORTAR, 81MM INFRARED (IR) ILLUM M816 (E90000)

**P-1 Line Item Nomenclature:** CTG, MORTAR, 81MM INFRARED (IR) ILLUM M816 (E90000)

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**REMARKS:**
## FY 06 / 07 BUDGET PRODUCTION SCHEDULE

**P-1 ITEM NOMENCLATURE**  
CTG, MORTAR, 81MM INFRARED (IR) ILLUM M816 (E90000)  

**Date:** February 2006  

### Load, Assemble, and Pack

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### COST ELEMENTS

Load, Assemble, and Pack

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## FY 08 / 09 Budget Production Schedule

### P-1 Item Nomenclature
CTG, MORTAR, 81MM INFRARED (IR) ILLUM M816 (E90000)

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### Cost Elements

**Load, Assemble, and Pack**

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|                      |     |       |     |     |        |     |                 |     |       |         |       |

**Date:** February 2006

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Exhibit P-21

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

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

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

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

FY 2005 includes supplemental funding of $44.914 million to support the global war on terrorism.
### Exhibit P-5, Weapon AMMO Cost Analysis

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

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

**Weapon System Type:**

**Date:**
February 2006

#### AMMO Cost Elements

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E25500
CTG, MORTAR, 120MM, ALL TYPES
Item No. 11 Page 2 of 30

Exhibit P-5
Weapon System Cost Analysis
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<td>The M933 High Explosive (HE) Cartridge with point detonating fuze is designed for use with the M120/M121 120mm Battalion Mortar System, currently fielded to all Armor and Mechanized Infantry units and for the Soltam Recoiling Mortar System that is planned for the Stryker Brigade Combat Teams. The round is used against personnel and materiel providing both fragmentation and blast effect. It consists of a point detonating fuze, tail assembly, and projectile body with composition B explosive fill. This item is code A, approved for service use.</td>
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### Justification:

This training standard item used in both training and combat. FY 2007 procurement supports annual training and builds a war reserve in accordance with the Army's procurement goals.

**TYPE CLASSIFICATION DATE:** JUNE 1996
## Exhibit P-5, Weapon AMMO Cost Analysis

**Appropriation/Budget Activity/Serial No:** Procurement of Ammunition, Army/1  
**P-1 Line Item Nomenclature:** CTG MORTAR 120MM HE M933A1 W/PD FUZE (E25502)  
**Weapon System Type:**  
**Date:** February 2006

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

**Appropriation/Budget Activity/Serial No:** Procurement of Ammunition, Army / 1 / Ammunition  
**Weapon System Type:** CTG MORTAR 120MM HE M933A1 W/PD FUZE (E25502)  
**P-I Line Item Nomenclature:** CTG MORTAR 120MM HE M933A1 W/PD FUZE (E25502)

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<th>Award Date</th>
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<th>Date Revsn Avail</th>
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**REMARKS:**
## FY 08 / 09 BUDGET PRODUCTION SCHEDULE

**P-1 ITEM NOMENCLATURE**  
CTG MORTAR 120MM HE M933A1 W/PD FUZE (E25502)  

**Date:** February 2006

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### Cost Elements

- **LOAD, ASSEMBLE, PACK (LAP)**

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### Remarks

- Initial
- Reorder
- Initial
- Reorder
- Initial
- Reorder
- Initial
## Exhibit P-40, Budget Item Justification Sheet

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

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

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

### Program Elements for Code B Items:

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### Description:
The M930 Illumination Cartridge with Mechanical Time - Super Quick (MTSQ) Fuze is designed for use with the M120/M121 120mm Battalion Mortar System, currently fielded to all Armor and Mechanized Infantry units in the Army, and for the Soltam Recoiling Mortar System which is planned for the Stryker Brigade Combat Teams. The round is used to illuminate targets during night operations. It consists of a 2-piece body filled with an illuminating flare, M776 MTSQ fuze and tail assembly. It bursts over a target producing one million candela of illumination. This round is ballistically similar to the 120mm high explosive (HE) and smoke cartridges. This item is Code A, approved for service use.

### Justification:
This is a training standard item used in both training and combat. FY 2007 procurement supports training and builds war reserve inventory in accordance with the Army's procurement goals.

**TYPE CLASSIFICATION DATE: STD 2QFY03**

FY 2005 includes supplemental funding of $17.0 million to support the global war on terrorism.
## Exhibit P-5, Weapon AMMO Cost Analysis

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

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

**Weapon System Type:**

**Date:** February 2006

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<td>$000</td>
<td>Each</td>
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**REMARKS:**
## FY 06 / 07 BUDGET PRODUCTION SCHEDULE

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**Urgent need for cartridge required offshore production in order to meet operational requirements in FY05.**
## FY 08 / 09 BUDGET PRODUCTION SCHEDULE

**P-1 ITEM NOMENCLATURE**  
CTG MORTAR 120MM VISUAL LIGHT ILLUM M930 W/MTSQ FZ (E25503)  
Date: February 2006

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#### MFR 1

- **Name / Location**: Pine Bluff Arsenal, Pine Bluff, AR  
- **MIN**: 5  
- **1-8-5**: 10  
- **MAX**: 30  
- **D+**: 0  
- **MFR**: Initial  
- **Reached**
  - **1**: 6  
  - **After 1 Oct**: 6  
  - **After 1 Oct**: 21  
  - **After 1 Oct**: 27  
- **ADMIN LEAD TIME**
  - **Prior 1 Oct**: 3  
  - **After 1 Oct**: 6  
  - **After 1 Oct**: 16  
  - **After 1 Oct**: 22  

#### MFR 11

- **Name / Location**: IMI, Israel  
- **MIN**: 5  
- **1-8-5**: 20  
- **MAX**: 30  
- **D+**: 0  
- **MFR**: Initial  
- **Reached**
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  - **After 1 Oct**: 8  
- **ADMIN LEAD TIME**
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**REMARKS**

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E25500 (E25503)  
CTG MORTAR 120MM VISUAL LIGHT ILLUM M930 W/MTSQ FZ  
Item No. 11 Page 12 of 30  
Exhibit P-21  
Production Schedule
### Program Elements for Code B Items:

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

### Justification:
This is a training unique item not used in combat. FY 2007 procurement supports annual training and builds a depot level in accordance with the Army's procurement goals.

TYPE CLASSIFICATION DATE: August 1996

FY 2005 includes supplemental funding of $20.0 million to support the global war on terrorism.
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## Exhibit P-5a, Budget Procurement History and Planning

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**Weapon System Type:** CTG, MORTAR, 120MM PRACTICE, M931 (E25507)  
**P-1 Line Item Nomenclature:** CTG, MORTAR, 120MM PRACTICE, M931 (E25507)

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### REMARKS:

- [Details related to procurement history and planning as mentioned in the table.]
### FY 06 / 07 BUDGET PRODUCTION SCHEDULE

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#### COST ELEMENTS

**Load, Assemble, Pack (LAP)**

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## FY 08 / 09 BUDGET PRODUCTION SCHEDULE

### P-1 ITEM NOMENCLATURE
CTG, MORTAR, 120MM PRACTICE, M931 (E25507)

### Date:
February 2006

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### REMARKS
FY06/FY07 production will be alternated between the M934A1, M933, and M931.
**Exhibit P-40, Budget Item Justification Sheet**

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

**P-1 Item Nomenclature**
120MM MORTAR HE M934A1 (E91400)

**Program Elements for Code B Items:**

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**Description:**
The M934A1 High Explosive (HE) Cartridge with multi option fuze is designed for use with the M120/M121 120mm Battalion Mortar System, currently fielded to all Armor and Mechanized Infantry units and for the Soltam Recoiling Mortar System that is planned for the Stryker Brigade Combat Team. The round is used against personnel and materiel providing both fragmentation and blast effect. It consists of a multi-option fuze, tail assembly, and projectile body with composition B explosive fill. The M934A1 uses the highly reliable and countermeasure resistant M734A1 multi-option fuze. The proximity setting will burst the round at a height over the target that is optimized for lethality. The round increases the lethality to 1.5 times the 4.2-inch high explosive round it replaces. This item is code A, approved for service use.

**Justification:**
This is a training standard item used in both training and combat. FY 2007 procurement supports annual training and builds a war reserve inventory in accordance with the Army's procurement goals.

**TYPE CLASSIFICATION DATE:** JUNE 1996
# Exhibit P-5, Weapon AMMO Cost Analysis

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| AMMO Nomenclature: | 120MM MORTAR HE M934A1 (E91400) |

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

## P-1 Line Item Nomenclature:
- 120MM MORTAR HE M934A1 (E91400)

## Weapon System Cost Analysis

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

**Date:** February 2006

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

### Weapon System Type:
- 120MM MORTAR HE M934A1 (E91400)

### P-1 Line Item Nomenclature:
- E25500 (E91400) Item No. 11

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- Load, Assemble, and Pack (LAP)
  - FY 2005: SNC Technologies, LeGardeur, PQ, Canada
  - FY 2006: To Be Selected
  - FY 2007: To Be Selected
- Shell Body
  - FY 2005: Chamberlain Mfg, Scranton, PA
  - FY 2006: Chamberlain Mfg, Scranton, PA
  - FY 2007: To Be Selected
- Fuze, M734A1
  - FY 2005: L3-KDI, Cincinnati, OH
  - FY 2006: L3-KDI, Cincinnati, OH
  - FY 2007: To Be Selected
- Propellant Charge M234
  - FY 2005: General Dynamics OTS, Marion, IL
  - FY 2006: General Dynamics OTS, Marion, IL
  - FY 2007: General Dynamics OTS, Marion, IL
- Ignition Cartridge M1020
  - FY 2005: POCAL Industries, Scranton, PA
  - FY 2006: POCAL Industries, Scranton, PA
  - FY 2007: To Be Selected
- Fuze Adapter
  - FY 2005: MaTech, Salisbury, MO

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

**Weapon System Type:** 120MM MORTAR HE M934A1 (E91400)

**P-1 Line Item Nomenclature:**

<table>
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<tr>
<th>FY</th>
<th>Line Item Nomenclature</th>
<th>Contractor and Location</th>
<th>Contract Method and Type</th>
<th>Location of PCO</th>
<th>Award Date</th>
<th>Date of First Delivery</th>
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<th>Unit Cost $</th>
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**Fin Assembly M31**

| FY 2005 | Lockheed-Martin Naval Electron | SS/Option | Picatinny, NJ | Mar 05 | Feb 06 | 15 | 29 | Yes |
| FY 2006 | Lockheed-Martin Naval Electron | SS/Option | Picatinny, NJ | Mar 06 | Feb 07 | 9 | 31 | Yes |
| FY 2007 | Lockheed-Martin Naval Electron | SS/Option | Picatinny, NJ | Mar 07 | Feb 08 | 16 | 33 | Yes |

**Inner Container PA167**

| FY 2005 | United Ammo Container | SS/Option | Picatinny, NJ | Mar 05 | Feb 06 | 15 | 10 | Yes |

**Metal Container PA154**

| FY 2005 | BWAY | SS/Option | Picatinny, NJ | Mar 05 | Feb 06 | 8 | 43 | Yes |

**REMARKS:**
1. 120mm Mortar Horizontal Component Integration (HCI) hardware are as follows: M1020 Ignition Cartridge, M234 Prop Charge, M31 Fin Assembly, PA 153 Fiber Container and PA 154 Metal Container. HCI components are procured on the same contract.
2. The M734A1 fuze utilizes HCI and is common to the 60mm HE 120mm WP Smoke.
### FY 06 / 07 BUDGET PRODUCTION SCHEDULE

**P-1 ITEM NOMENCLATURE**  
120MM MORTAR HE M934A1 (E91400)  

**Date:** February 2006

**COST ELEMENTS**

|   |   |   |   |    |   |      |    |       |       |    |    |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
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**Load, Assemble, and Pack (LAP)**

|   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |

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**Date:** February 2006

**Production Schedule**

|   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |

**MFR:**

1. SNC Technologies, LeGardeur, PQ, Canada
2. To Be Selected

**REMARKS:**

FY 2006/2007 production will be alternated between the M934A1, M933, and M931.
### FY 08 / 09 BUDGET PRODUCTION SCHEDULE

**P-1 ITEM NOMENCLATURE**  
120MM MORTAR HE M934A1 (E91400)  
**Date:** February 2006

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| COST ELEMENTS | J | F | M | A | P | U | E | C | N | D | J | F | M | A | M | J | J | A | S |
|               | O | C | E | N | B | R | Y | N | L | G | P | T | V | C | O | E | N | B | R | Y | N | L | G | P |
| **Load, Assemble, and Pack (LAP)** | J | F | M | A | P | U | E | C | N | B | R | Y | N | L | G | P | T | V | C | O | E | N | B | R | Y | N | L | G | P |

| Date: | February 2006 |

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Program Elements for Code B Items:

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Proc Qty 10 15 3 2 2 3 3 3 41
Gross Cost 28.8 17.4 5.6 5.3 6.3 7.3 8.1 8.9 87.7
Less PY Adv Proc
Plus CY Adv Proc
Net Proc P1 28.8 17.4 5.6 5.3 6.3 7.3 8.1 8.9 87.7
Initial Spares
Total Proc Cost 28.8 17.4 5.6 5.3 6.3 7.3 8.1 8.9 87.7
Flyaway U/C
Weapon System Proc U/C

Description:
The M983 Infrared Illumination Cartridge with Mechanical Time - Super Quick (MTSQ) Fuze is designed for use with the M120/M121 120mm Battalion Mortar System, currently fielded to all Armor and Mechanized Infantry units in the Army, and for the Soltam Recocking Mortar System which is planned for the Stryker Brigade Combat Teams. The round is used to illuminate targets during night operations. Infrared Illumination greatly enhances the effectiveness of night vision devices. The round consists of a 2-piece body filled with an illuminating flare, M776 Mechanical Time (MT) fuze and tail assembly. The round is ballistically similar to the 120mm High Explosive (HE) and smoke cartridges. This item is code A, approved for service use.

Justification:
This is a training standard item used in both training and combat. FY 2007 procurement supports annual training and builds a war reserve inventory in accordance with the Army's procurement goals.

TYPE CLASSIFICATION DATE: June 2000

FY 2005 includes supplemental funding of $17.0 million to support the global war on terrorism.
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## Exhibit P-5a, Budget Procurement History and Planning

**Date:** February 2006

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**Propellant Charge M234**

| FY 2005           | General Dynamics OTS Marion, IL | SS/Option                | Picatinny, NJ   | Mar 05    | Feb 06                 | 59       | 14         | Yes             |                 |                |
| FY 2006           | General Dynamics OTS Marion, IL | SS/Option                | Picatinny, NJ   | Mar 06    | Feb 07                 | 10       | 15         | Yes             |                 |                |
| FY 2007           | General Dynamics OTS Marion, IL | SS/Option                | Picatinny, NJ   | Mar 07    | Feb 08                 | 9        | 16         | Yes             |                 |                |

**Fin Assembly M31**

| FY 2005           | Lockheed-Martin Naval Electron Archbald, PA | SS/Option                | Picatinny, NJ   | Mar 05    | Feb 06                 | 15       | 29         | Yes             |                 |                |
| FY 2006           | To Be Selected                         | SS/Option                | Picatinny, NJ   | May 06    | Feb 07                 | 3        | 31         | Yes             |                 |                |
| FY 2007           | To Be Selected                         | SS/Option                | Picatinny, NJ   | Mar 07    | Feb 08                 | 2        | 33         | Yes             |                 |                |

**Inner Container PA 167**

| FY 2005           | United Ammo Container Milan, TN        | SS/Option                | Picatinny, NJ   | Mar 05    | Feb 06                 | 15       | 10         | Yes             |                 |                |
| FY 2006           | United Ammo Container Milan, TN        | SS/Option                | Picatinny, NJ   | Mar 06    | Feb 07                 | 3        | 11         | Yes             |                 |                |
| FY 2007           | United Ammo Container Milan, TN        | SS/Option                | Picatinny, NJ   | Mar 07    | Feb 08                 | 2        | 11         | Yes             |                 |                |

**Metal Container PA154**

| FY 2005           | BWAY Atlanta, GA                       | SS/Option                | Picatinny, NJ   | Mar 05    | Feb 06                 | 8        | 43         | Yes             |                 |                |
| FY 2006           | BWAY Atlanta, GA                       | SS/Option                | Picatinny, NJ   | Mar 06    | Feb 07                 | 1        | 46         | Yes             |                 |                |
| FY 2007           | BWAY Atlanta, GA                       | SS/Option                | Picatinny, NJ   | Mar 07    | Feb 08                 | 1        | 50         | Yes             |                 |                |

**REMARKS:** LAP and canister unit cost in FY 2005 were discounted by PBA and CAAA as a result of additional supplemental funds. FY 2006 and FY 2007 LAP and Canister unit cost reflect normal price estimate.
## FY 06 / 07 BUDGET PRODUCTION SCHEDULE

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### Production Schedule

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- Initial
- Reorder
- Initial
- Reorder
- Initial
- Reorder
- Initial
## FY 08 / 09 BUDGET PRODUCTION SCHEDULE

### P-1 ITEM NOMENCLATURE
CTG, MORTAR, 120MM INFRARED (IR) ILLUM M983 (E91500)

**Date:** February 2006

### COST ELEMENTS

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**Description:**

This budget line includes CARTRIDGE, TANK, 105MM ALL TYPES.
### Exhibit P-5, Weapon AMMO Cost Analysis

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

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

**Weapon System Type:**
CTG TANK 105MM: ALL TYPES

**Date:**
February 2006

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

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

**P-1 Item Nomenclature**
CTG, 105MM, HEP-TP (E22300)

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

**Justification:**
This is a training unique item not used in combat. FY 2007 procurement supports annual training and builds a depot level in accordance with the Army's procurement goals.

**TYPE CLASSIFICATION:** August 2004
## Exhibit P-5, Weapon AMMO Cost Analysis

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

Date: February 2006

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REMARKS: The acquisition strategy for FY2007-2011 is a 5-year multiyear production contract.
## FY 06 / 07 BUDGET PRODUCTION SCHEDULE

**P-1 ITEM NOMENCLATURE**
CTG, 105MM, HEP-TP (E22300)

**Date:**
February 2006

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<th>E</th>
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<th>ACCEP</th>
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<th>DUE</th>
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**FY 08 / 09 BUDGET PRODUCTION SCHEDULE**

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**P-1 ITEM NOMENCLATURE**
CTG, 105MM, HEP-TP (E22300)

**Date:**
February 2006

**COST ELEMENTS**

| Date: | February 2006 |

**Production Schedule**

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**Complete Round**

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| FY 06 | A | 15 | 15 | 0 |
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**Total**

| 43 | 39 | 4 | 4 |

**ADMIN LEAD TIME**

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**PRODUCTION RATES**

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**REMARKS**
Deliveries reflect continuous production but are combined into acceptable lot quantities and reflect actual rounds accepted into the Army's field service account.
**Exhibit P-40, Budget Item Justification Sheet**

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

**P-1 Item Nomenclature**
CTG, TANK, 105MM, HEP-T, W/FUZE M393A2 (E24300)

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**Description:**
The next generation 105mm High Explosive Plastic w/Tracer (HEP-T) M393A3 cartridge will replace the current, aged stockpile of M393A2 High Explosive Plastic (HEP) 105mm tank ammunition cartridges. This updated high explosive cartridge will be fired from the 105mm main armament of the Mobile Gun System (MGS) variant of the Stryker. A Key Performance Parameter (KPP) for the MGS is that the primary armament system must create an opening in a double reinforced concrete wall through which infantry can pass. The 105mm M393A3 will be the ammunition cartridge to achieve this KPP. The MGS is the Stryker variant providing the Stryker Brigade Combat Team with direct fire support to dismounted infantry. The M393A3 incorporates components that meet current safety and fuze requirements and meet improved insensitive munitions characteristics. This item is Code A, approved for service use.

**Justification:**
This is a war reserve item used in combat. Procurement builds a war reserve inventory in accordance with the Army's procurement goals.

**TYPE CLASSIFICATION:** August 2004
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**REMARKS:**
### FY 06 / 07 Budget Production Schedule

#### P-1 Item Nomenclature
CTG, TANK, 105MM, HEP-T, W/FUZE M393A2 (E24300)

**Date:** February 2006

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**Item No. 12 Page 11 of 15**

**Exhibit P-21**

**Production Schedule**
Date: February 2006

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

Justification:
This is a training standard item used in both training and combat. FY 2007 procurement supports annual training and builds a war reserve inventory in accordance with the Army’s procurement goals. The cartridge will enable the MGS in the Stryker Brigade Combat Team to satisfy the Main Gun Operation Requirements Document (ORD) to immediately suppress dismounted infantry assaults.

TYPE CLASSIFICATION: February 2005
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# Exhibit P-5a, Budget Procurement History and Planning

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**REMARKS:**

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CTG, 105MM, APERS-T F/TANK GUN

Item No. 12 Page 14 of 15

Budget Procurement History and Planning

E22203 (E24400)
## FY 06 / 07 BUDGET PRODUCTION SCHEDULE

### CTG, 105MM, APERS-T F/TANK GUN (E24400)

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### Complete Round

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### REMARKS

Deliveries reflect continuous production but are combined into acceptable lot quantities and reflect actual rounds accepted into the Army's field service account.
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**Description:**
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<td>28824</td>
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Exhibit P-5, Weapon AMMO Cost Analysis

Appropriation/Budget Activity/Serial No:
120MM TANK TRAINING, ALL TYPES (E89700)

P-1 Line Item Nomenclature:
Ammunition

Weapon System Type: Ammunition

Date: February 2006
### Program Elements for Code B Items:

<table>
<thead>
<tr>
<th>Code</th>
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<tr>
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#### Appropriation / Budget Activity / Serial No:
Procurement of Ammunition, Army / 1 / Ammunition

#### P-1 Item Nomenclature
Cartridge, 120mm, TP-T: XM1002 (E73201)

#### Date: February 2006

#### Program Elements for Code B Items:

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<th>Prior Years</th>
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<th>FY 2007</th>
<th>FY 2008</th>
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<td>65.2</td>
<td>78.1</td>
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#### Description:
The Cartridge, 120mm, Target Practice Multi Purpose-Tracer (TPMP-T) XM1002 is a target practice cartridge that simulates the size, weight, ballistics and the loader's function of setting the nose switch of the multi-purpose chemical energy cartridge M830A1. This cartridge is fired from the M256 120mm smooth bore cannon on the M1A1/M1A2/M1A2 Systems Enhancement Program Abrams Tank. The projectile is inert and composed of an aluminum body, steel nose with dummy plastic switch, aluminum conical stabilizer, aluminum sabot, nylon obturators and tracer. The stabilizer imparts spin to the projectile in flight for stabilization and provides the mechanism to limit the projectile's maximum range. This item is Code B, not approved for service use.

#### Justification:
This is a training unique item not for use in combat. FY 2007 procurement supports annual training requirements and builds a depot level in accordance with the Army's procurement goals. The XM1002 will replace the M831A1 cartridge. Tank crews will conduct live fire training with the cartridge to achieve and maintain gunnery proficiency.

#### TYPE CLASSIFICATION: June 2006
## 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, TP-T: XM1002 (E73201)

**Weapon System Type:**

**Date:** February 2006

### AMMO Cost Elements

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<tr>
<th>ID</th>
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<tr>
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#### AMMUNITION HARDWARE

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#### COST - NON-RECURRING

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

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

**Weapon System Type:** Cartridge, 120mm, TP-T: XM1002 (E73201)  

**P-1 Line Item Nomenclature:** Cartridge, 120mm, TP-T: XM1002 (E73201)  

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<th>Location of PCO</th>
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<th>Date of First Delivery</th>
<th>QTY x1000</th>
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**REMARKS:** The FY 2006 buy will be split between the developing producer (Alliant Tech) and the second source (General Dynamics).
### FY 06 / 07 BUDGET PRODUCTION SCHEDULE

**P-1 ITEM NOMENCLATURE**
Cartridge, 120mm, TP-T: XM1002 (E73201)

**Date:** February 2006

#### COST ELEMENTS

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<th>E</th>
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|   |   |    |   | Date: February 2006 |
|---|---|---|---|

#### MFR — PRODUCTION RATES

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<th>D+</th>
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<th>MFR</th>
<th>ADMIN LEAD TIME</th>
<th>MFR</th>
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<th>REMARKS</th>
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<td>After 1 Oct</td>
<td>After 1 Oct</td>
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**E89700 (E73201)**
Cartridge, 120mm, TP-T: XM1002
### FY 08 / 09 Budget Production Schedule

**P-1 Item Nomenclature**
Cartridge, 120mm, TP-T: XM1002 (E73201)

**Date:** February 2006

**Exhibit P-21**

#### Cartridge, 120mm, TP-T: XM1002 (E73201)

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**Production Schedule**

#### MFR Production Rates

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<th>Reached</th>
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<th>ADMIN LEAD TIME</th>
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<td>MFR</td>
<td>After 1 Oct</td>
<td>After 1 Oct</td>
<td>After 1 Oct</td>
<td>Deliveries reflect continuous production but are combined into acceptable lot quantities and reflect actual rounds accepted into the Army's field service account.</td>
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1. Alliant Techsystems, Minneapolis, MN  
   - Initial: 3, 8, 15, 23
   - Reorder: 3, 9, 13, 22
2. General Dynamics Ord & Tac, St Petersburg, Fl  
   - Initial: 3, 6, 29, 35
   - Reorder: 3, 6, 6, 12
3. TBS  
   - Initial: 3, 4, 12, 16
   - Reorder: 3, 4, 12, 16

---

E89700 (E73201)  
Cartridge, 120mm, TP-T: XM1002  
Item No. 13 Page 7 of 16  
315  
Exhibit P-21  
Production Schedule
### Exhibit P-40, Budget Item Justification Sheet

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#### Program Elements for Code B Items:

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#### Other Related Program Elements:

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#### Description:

The 120mm M831A1 Target Practice-Tracer (TP-T) is a target practice round that simulates the ballistics of the chemical energy service round (M830). This round is fired from the M256 120mm smooth bore cannon on the M1A1/M1A2 Abrams tank. The projectile is inert and is composed of a steel spike aluminum body, ring, stabilizer, nylon obturator and tracer. The stabilizer spins the round in flight. This item is Code A, approved for service use.

#### Justification:

This is a training unique item not used in combat. FY 2007 funding supports engineering in support of production.

#### TYPE CLASSIFICATION DATE: 1983
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### Exhibit P-5a, Budget Procurement History and Planning

**Date:** February 2006

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

**Weapon System Type:** CTG TANK 120MM TP-T M831/M831A1 (E73300)

**P-1 Line Item Nomenclature:**

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**REMARKS:**

NOTE: THIS IS AN AVERAGE UNIT COST FOR MULTIPLE PRODUCERS

## FY 06 / 07 Budget Production Schedule

### Date:
February 2006

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**Production Rates**

- **Alliant Tech Sys Inc, Plymouth, MN**
  - MIN: 0.1
  - MAX: 1.0
  - D+: 27.0
  - Reorder: 5
  - MFR: 1 Initial
  - Prior 1 Oct: 6
  - After 1 Oct: 4
  - MFR: 13

- **General Dynamics Ord & Tac, St Petersburg, FL**
  - MIN: 0.1
  - MAX: 1.0
  - D+: 27.0
  - Reorder: 5
  - MFR: 2 Initial
  - Prior 1 Oct: 6
  - After 1 Oct: 4
  - MFR: 13

**Remarks**

- M865/M831A1 TRAINING ROUNDS LINE SHARE AT IOWA AAP AND HAVE A 50/50 SPLIT MULTIYEAR PROCUREMENT BETWEEN ATK AND GENERAL DYNAMICS. LEADTIME REFLECTS ENTIRE ROUND CYCLE FOR ALL BUYS COMBINED.
### Exhibit P-40, Budget Item Justification Sheet

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

**P-1 Item Nomenclature**
CTG TANK 120MM TPCSDS-T M865 (E73400)

**Program Elements for Code B Items:**

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**Description:**
The 120mm M865 Target Practice Cone-Stabilized Discarding Sabot with Tracer (TPCSDS-T) is a target practice round that simulates the ballistics of the 120mm M829 series Armor Piercing Fin-Stabilized Discarding Sabot with Tracer (APFSDS-T) round. This round is fired from the M256 120mm cannon on the M1A1/M1A2 Abrams tank. This item is Code A, approved for service use.

**Justification:**
This is a training unique item; not used in combat. FY2007 procurement supports annual training and builds a depot level in accordance with the Army's procurement goals.

The requested ammunition is required to support annual tank proficiency training for 120mm gunned tanks. Training with this round simulates the firing of the Army's most lethal armor-defeating kinetic energy round in support of Army readiness objectives.

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

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

**Weapon System Type:** CTG TANK 120MM TPCSDS-T M865 (E73400)

**P-1 Line Item Nomenclature:**

- E89700 (E73400)
- CTG TANK 120MM TPCSDS-T M865

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**REMARKS:**

- NOTE: THIS IS AN AVERAGE UNIT COST FOR MULTIPLE PRODUCERS
## FY 06 / 07 BUDGET PRODUCTION SCHEDULE

**P-1 ITEM NOMENCLATURE**
CTG TANK 120MM TPCSDS-T M865 (E73400)  
**Date:** February 2006

### Fiscal Year 06

|     |    |   |   |         |             |         | C | T | E | N | B | R | Y | N | L | G | P | T | V | E | N | B | R | Y | N | L | G | P |

**Cost Elements**

|     |    |   |   |   |   |         |             |         | C | T | E | N | B | R | Y | N | L | G | P | T | V | E | N | B | R | Y | N | L | G | P | |

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**Cost Elements**

|     |    |   |   |   |   |         |             |         | C | T | E | N | B | R | Y | N | L | G | P | T | V | E | N | B | R | Y | N | L | G | P | |

**Total**

|     |    |   |   |   |   |         |             |         | C | T | E | N | B | R | Y | N | L | G | P | T | V | E | N | B | R | Y | N | L | G | P | |

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## FY 08 / 09 BUDGET PRODUCTION SCHEDULE

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#### CTG TANK 120MM TPCSDS-T M865 (E73400)

**Date:** February 2006

#### Production Schedule

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**REMARKS**

M865/M831A1: TRAINING ROUNDS LINE SHARE AT IOWA AAP AND HAVE A 50/50 SPLIT MULTIYEAR PROCUREMENT BETWEEN ATK AND GENERAL DYNAMICS. LEADTIME REFLECTS ENTIRE ROUND CYCLE FOR ALL BUYS COMBINED.

---

CTG TANK 120MM TPCSDS-T M865

E89700 (E73400)

Item No. 13 Page 16 of 16

Exhibit P-21

Production Schedule
### Exhibit P-40, Budget Item Justification Sheet

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

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

**Date:** February 2006

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**Description:**
This budget line item includes CARTRIDGE, TANK, 120MM TACTICAL, ALL TYPES.

FY 2006 funding includes a congressional increase of $1.0 million.
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### 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 2007 supports engineering in support of production.

### FY 2006 funding includes a congressional increase of $1.0 million.
### Exhibit P-5, Weapon AMMO Cost Analysis

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

**Appropriation/Budget Activity/Serial No:**
Procurement of Ammunition, Army/1 Ammunition  
**Weapon System Type:**
Cartridge, 120mm, Canister, M1028 (E78011)  
**P-1 Line Item Nomenclature:**
Cartridge, 120mm, Canister, M1028

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**REMARKS:**

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Date: February 2006
### FY 06 / 07 BUDGET PRODUCTION SCHEDULE

#### P-1 ITEM NOMENCLATURE
Cartridge, 120mm, Canister, M1028 (E78011)

Date: February 2006

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**ADMIN LEAD TIME**

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**PRODUCTION RATES**

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**REMARKS**

Delivers reflect continuous production but are combined into acceptable lot quantities and reflect actual rounds accepted into the Army's field service account.
### Exhibit P-40, Budget Item Justification Sheet

**Date:** February 2006

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

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

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### Description:

The 120mm M829A3 Armor Piercing, Fin Stabilized, Discarding Sabot with Tracer (APFSDS-T) cartridge is the follow-on to the M829A2 APFSDS-T cartridge. The M829A3 is the most effective anti-armor kinetic energy round fired from the M256 120mm smoothbore cannon mounted on the Abrams Main Battle Tank. This cartridge has been specifically developed to counter advances in armor protection technologies, to include explosive reactive armor. The propulsion system consists of a high-energy propellant and a combustible cartridge case with an electric primer. The projectile system consists of a Depleted Uranium (DU) penetrator mated to a drag reducing windshield and flight stabilizing multi-bladed tail fin, all secured for launch by a composite sabot. The M829A3 utilizes similar components to the M829A1 and M829A2 series of APFSDS-T cartridges, but incorporates technological advancements to provide significantly more effective antiarmor 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 2007 procurement builds a war reserve inventory in accordance with the Army's procurement goals.

Procurement of the M829A3 supports the Abrams Main Battle Tank as the Army's premier lethal battlefield direct fire assault fighting vehicle. The Abrams' 120mm gun will remain in the bulk of the tank inventory until year 2050. The M829A3 ammunition is essential in maintaining the battlefield overmatch capabilities of the Abrams Tank. Production and fielding of the M829A3 will maintain the ability of the Abrams Main Battle Tank to defeat current and postulated armor threats. This round incorporates revolutionary advances in technology and represents the most lethal antiarmor tank cartridge in production/inventory.

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

> **Date:** February 2006

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

**Weapon System Type:**
Ctg, 120mm APFSDS M829A3 (E78013)

**P-I Line Item Nomenclature:**
Ctg, 120mm APFSDS M829A3 (E78013)

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**REMARKS:**

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**Date:** February 2006

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

**Weapon System Type:**
Ctg, 120mm APFSDS M829A3 (E78013)

**P-I Line Item Nomenclature:**
Ctg, 120mm APFSDS M829A3 (E78013)

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**REMARKS:**

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**Date:** February 2006

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

**Weapon System Type:**
Ctg, 120mm APFSDS M829A3 (E78013)

**P-I Line Item Nomenclature:**
Ctg, 120mm APFSDS M829A3 (E78013)

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**REMARKS:**
### FY 06 / 07 BUDGET PRODUCTION SCHEDULE

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### FY 08 / 09 BUDGET PRODUCTION SCHEDULE

#### P-1 ITEM NOMENCLATURE
Ctg, 120mm APFSDS M829A3 (E78013)

Date: February 2006

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#### COST ELEMENTS

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Deliveries reflect continuous production but are combined into acceptable lot quantities and reflect actual rounds accepted into the Army's field service account.
## FY 10 / 11 BUDGET PRODUCTION SCHEDULE

### P-1 ITEM NOMENCLATURE

**Ctg, 120mm APFSDS M829A3** (E78013)

| Date: | February 2006 |

**Complete Round**

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### REMARKS

Deliveries reflect continuous production but are combined into acceptable lot quantities and reflect actual rounds accepted into the Army's field service account.
**Appropriation / Budget Activity / Serial No:**
Procurement of Ammunition, Army / 1 / Ammunition

**P-1 Item Nomenclature**
CTG, ARTY, 75MM: ALL TYPES (E15101)

---

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**Description:**
This budget line includes 75mm All Types. The 75mm blank cartridge is used on the Pack 75 howitzer for ceremonies and parades. The cartridge consists of a brass or aluminum cartridge case containing loosely packed black powder and a press-fitted percussion primer. A fiber wad is inserted over the black powder and a polystyrene closing cap is cemented in place with a polyester resin adhesive. This item is Code A, approved for service use.

**Justification:**
The FY 2007 procurement supports ceremonial requirements and builds a depot level in accordance with the Army's procurement goals.
## Exhibit P-5, Weapon AMMO Cost Analysis

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

**P-1 Line Item Nomenclature:**
CTG, ARTY, 75MM: ALL TYPES (E15101)

**Weapon System Type:**

**Date:**
February 2006

### AMMO Cost Elements

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**E15101**

CTG, ARTY, 75MM: ALL TYPES

Item No. 15 Page 2 of 2

Exhibit P-5

Weapon System Cost Analysis
### Exhibit P-40, Budget Item Justification Sheet

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

**P-1 Item Nomenclature**
CTG, ARTY, 105MM: ALL TYPES (E21101)

**Program Elements for Code B Items:**

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**Description:**
This budget line includes Ctg, Artillery, 105mm, All Types.
### AMMO Cost Elements

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

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

#### P-1 Item Nomenclature
CTG, ARTILLERY, 105MM HE, M1 W/O FUZE (E21501)

#### Program Elements for Code B Items:

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<tr>
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#### Description:
The 105mm HE M1 cartridge contains a High Explosive (HE) (either Comp B or TNT) and is used for fragmentation and blast in support of ground troops and armored columns. This is also used for mining operations. The round is loaded with an M67 propellant charge, consisting of seven numbered increment bags sewn together in numerical order. Projectile function is dependent upon the fuze used and may function on impact (instantaneous or delay), above ground at a predetermined height or in proximity to the target area. Fuze function detonates the HE projectile filler resulting in projectile fragmentation and blast. Range varies from 3.5 to 11.3 kilometers, depending on the number of charge bags used. This item is Code A, approved for service use.

#### Justification:
This is a training standard item used in both training and combat. FY 2007 procurement supports annual training and builds a war reserve inventory in accordance with the Army's procurement goals. This program will accomplish the remanufacture/recapitalization of 150,000 rounds per year at Blue Grass Army Depot, McAlester Army Ammunition Plant, and Hawthorne Army Depot by replacing the deteriorating propelling charge with a new charge made from a longer lasting material and replacing old primer with a new one.

**TYPE CLASSIFICATION DATE:** 1966
### Program Elements for Code B Items

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### Description:
The 105mm M314A3 Illumination Cartridge is used to illuminate a designated target area. It has a hollow, steel-forged body with a streamlined ogive, gliding metal rotating band, and a pinned base plug. The projectile cavity contains the expelling charge, illuminating canister, and parachute assembly. The projectile is assembled with either a Mechanical Time Super Quick (MTSQ) or Electronic Time (ET) fuze. The round is fired in the M101, M101A1, M102 and M19 Howitzers. This item is Code A, approved for service use.

### Justification:
This is a training standard item used in both training and combat. FY 2007 procurement supports annual training and builds war reserve inventory in accordance with the Army's procurement goals.

### Type Classification Date:
1970
## Exhibit P-5, Weapon AMMO Cost Analysis

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

P-1 Line Item Nomenclature: CTG, ARTILLERY, 105MM ILLUM, M314A3 (E21700)

Weapon System Type:  

Date: February 2006

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<th>Date of First Delivery</th>
<th>QTY x1000</th>
<th>Unit Cost</th>
<th>Specs Avail Now?</th>
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<td>FY 2007</td>
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REMARKS: * Government Furnished Material
### FY 06 / 07 BUDGET PRODUCTION SCHEDULE

**P-1 ITEM NOMENCLATURE**
CTG, ARTILLERY, 105MM ILLUM, M314A3 (E21700)

**Date:** February 2006

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<td>2</td>
<td>FY 06</td>
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<td>2</td>
<td>FY 07</td>
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**Total:**
95.0 | 18.0 | 77.0 | 6.0 | 20.0 | 1.0 | 8.0 | 8.0 | 5.0 | 5.0 | 6.0 | 18.0

### ADMIN LEAD TIME

**MFR**
- Prior 1 Oct: 6
- After 1 Oct: 14
- After 1 Oct: 20

### REMARKS

- To Be Selected
  - Reorder
  - Reorder
  - Initial
  - Initial

---

**PRODUCTION RATES**

- **MIN:** 1.0
- **MAX:** 9.6
- **1-8-5:** 24.0
- **D+:** 0

**MFR**
- Initial
- Reorder
- Initial
- Reorder

**TOTAL**
- After 1 Oct: 17
- After 1 Oct: 17
- After 1 Oct: 17
- After 1 Oct: 17

---

**DESCRIPTION**

- LOAD, ASSEMBLE, PACK
## FY 08 / 09 BUDGET PRODUCTION SCHEDULE

**P-1 ITEM NOMENCLATURE**
CTG, ARTILLERY, 105MM ILLUM, M314A3 (E21700)

**Date:** February 2006

### COST ELEMENTS

**LOAD, ASSEMBLE, PACK**

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<th>R</th>
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**CTG, ARTILLERY, 105MM ILLUM, M314A3**

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

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

**P-1 Item Nomenclature**
CTG, ARTY, 155MM, ALL TYPES (E89500)

**Program Elements for Code B Items:**

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<th>Other Related Program Elements:</th>
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<td>Plus CY Adv Proc</td>
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<tr>
<td>Net Proc P1</td>
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<tr>
<td>Initial Spares</td>
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<tr>
<td>Total Proc Cost</td>
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<tr>
<td>Flyaway U/C</td>
<td>4345.8</td>
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<tr>
<td>Weapon System Proc U/C</td>
<td>4345.8</td>
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**Description:**
This budget line includes Cartridge, Artillery, 155mm All Types.

FY 2006 funding includes a congressional increase of $2.0 million.
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### Exhibit P-40, Budget Item Justification Sheet

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

*PROJ, ARTILLERY, 155MM ILLUM, M485* (E26900)

**Date:** February 2006

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

**Program Elements for Code B Items:**

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**Less PY Adv Proc**

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**Initial Spares**

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**Flyaway U/C**

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**Description:**
The M485 is fired from 155mm howitzers and used to illuminate the battlefield. The projectile has a hollow, steel-forged body containing an illumination canister, a canister expelling charge in the nose and a drogue parachute in the base. The illuminate canister contains the main parachute and lines, the illuminate candle assembly and secondary expelling charge and a delay element holder. The outer shell of the canister is fitted with four longitudinal fins. The projectile uses a Mechanical or Electronic Time fuze. When the fuze functions, the primary expelling charge ignites forcing the drogue parachute and canister assembly against the base plate, rupturing the base pins and expelling the canister and parachute. The drogue parachute then deploys and the canister fins extend. The expelling charge also ignites the delay element in the canister nose. The delay element ignites the secondary expelling charge within the canister after 8 seconds igniting the candle and expelling the main parachute. With the main chute open, the illuminate candle descends at 15 feet per second and burns for 120 seconds producing approximately 1,000,000 candlepower. This item is Code A, approved for service use.

**Justification:**
This is a training standard item used in both training and combat. The FY 2007 procurement supports annual training and builds war reserve inventory in accordance with the Army's procurement goals.

**TYPE CLASSIFICATION DATE:** 1970
### PROJ, ARTILLERY, 155MM ILLUM, M485 (E26900)

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

**Weapon System:** PROJ, ARTILLERY, 155MM ILLUM, M485 (E26900)

**Date:** February 2006

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

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**REMARKS:** * Government Furnished Material  
* FY 2005 funding was reprogrammed out of this line to support urgent Operations and Maintenance, Army (OMA) Global War on Terrorism (GWOT) requirements at the end of FY 2005. As a result, funds were not available to load, assemble, and pack (LAP) components. LAP will be covered in FY 2006 by a reprogramming action.
<table>
<thead>
<tr>
<th>M</th>
<th>F</th>
<th>PRODUCTION RATES</th>
<th>Reached</th>
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## FY 09 / 10 BUDGET PRODUCTION SCHEDULE

**P:1 ITEM NOMENCLATURE**

PROJ, ARTILLERY, 155MM ILLUM, M485 (E26900)

**Date:** February 2006

### COST ELEMENTS

| MFR | FY | S | E | QTY | PROC | ACCEP | BAL | DUE | AS OF 1 OCT | TO 1 OCT | AS OF 1 OCT | O | C | N | D | J | F | M | A | M | J | A | S | O | N | M | J | A | S | L | G | P |
|     |    |   |   |     |      |       |     |     |              |          |              |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |

### SYSTEM BUY

- **2 FY 07**: A 9.00 4.00 5.00 1.00 28.00 (Later)

### LOAD, ASSEMBLE, PACK

| MFR | FY | S | E | QTY | PROC | ACCEP | BAL | DUE | AS OF 1 OCT | TO 1 OCT | AS OF 1 OCT | O | C | N | D | J | F | M | A | M | J | A | S | O | N | M | J | A | S | L | G | P |
|     |    |   |   |     |      |       |     |     |              |          |              |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |

### ADMIN LEAD TIME

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### REMARKS

- **2 FY 07**: A 9.00 4.00 5.00 1.00 28.00 (Later)
## Exhibit P-40, Budget Item Justification Sheet

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

**P-1 Item Nomenclature**
- PROJ, ARTILLERY, 155MM HE, M107 (E27601)

### Program Elements for Code B Items:

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<th>Other Related Program Elements:</th>
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<td>Plus CY Adv Proc</td>
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<td>Total Proc Cost</td>
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</table>

### Description:

The 155mm M107 is a multi-purpose High Explosive (HE) projectile fired from 155mm howitzers. It is used for blast effect and fragmentation. The projectile may be loaded with either 14.6 pounds of TNT or 15.4 pounds of composition B explosives. The deep-cavity model has a supplementary charge of .3 pounds that may be removed to allow the use of proximity fuzes. This item is Code A, approved for service use.

### Justification:

This is a training standard item used in both training and combat. FY 2007 procurement supports annual training and builds a war reserve inventory in accordance with the Army's procurement goals.

### Type Classification Date:

1958
## Exhibit P-5, Weapon AMMO Cost Analysis

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

### Weapon System Nomenclature:
PROJ, ARTILLERY, 155MM HE, M107 (E27601)

### Date:
February 2006

**AMMO Cost Elements**

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<td>Location of PCO</td>
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## Exhibit P-5a, Budget Procurement History and Planning

**Date:** February 2006

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

**Weapon System Type:** PROJ, ARTILLERY, 155MM HE, M107 (E27601)

**P-1 Line Item Nomenclature:** PROJ, ARTILLERY, 155MM HE, M107 (E27601)

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<th>Location of PCO</th>
<th>Contract Method and Type</th>
<th>Award Date</th>
<th>Date of First Delivery</th>
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**REMARKS:** *GOVERNMENT FURNISHED MATERIAL*
# FY 06 / 07 Budget Production Schedule

## P-1 Item Nomenclature

**PROJ, ARTILLERY, 155MM HE, M107 (E27601)**

**Date:** February 2006

### Exhibit P-21

#### FY 06 / 07 Budget Production Schedule

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<th>DUE</th>
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#### COST ELEMENTS

**LOAD, ASSEMBLE, PACK**

- **7** FY 05 P A 77 19 58 22 36 0
- **7** FY 05 A 246 0 246 1 24 50 65 106 44 256
- **7** FY 06 A 300 0 300 A
- **7** FY 07 A 289 0 289 A 289
- **7** FY 05 MC 56 0 56 25 15 16 0
- **7** FY 06 MC 44 0 44 A 44 0

**Total**

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#### Production Rates

- **AMERICAN ORDNANCE (IAAP), MIDDLETOWN, IA**
  - **9** 25 42 0
  - **7** Initial 6 12 6 18
  - **Reorder** 6 9 15 24

**Remarks**

The M107 is produced at Iowa AAP on the same line as the M795. Iowa AAP delivers on a quarterly basis to allow for production flexibility between the two programs.
## FY 08 / 09 Budget Production Schedule

### P:1 Item Nomenclature
PROJ, ARTILLERY, 155MM HE, M107 (E27601)

**Date:**
February 2006

### Load, Assemble, Pack

|    |    |     | FY   |   E |     |           |      |        |         |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 7  | FY 05 | P  | A    | 77  | 77  |          |      |        |         |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 7  | FY 05 | A  | 246  | 246 | 0   |          |      |        |         |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 7  | FY 06 | A  | 300  | 44  | 256 | 102      | 102  | 52    |         |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 7  | FY 07 | A  | 289  | 0   | 289 | 45       | 102  | 102   | 40     |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 7  | FY 05 | MC | 56   | 56  | 0   |          |      |        |         |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 7  | FY 06 | MC | 44   | 44  | 0   |          |      |        |         |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |

Total:

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|   |   |   | 1012 | 467 | 545 | 102 | 102 | 97  | 102 | 102 | 40 |

### Cost Elements

**LOAD, ASSEMBLE, PACK**

| 7  | FY 05 | P  | A    | 77  | 77  |          |      |        |         |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 7  | FY 05 | A  | 246  | 246 | 0   |          |      |        |         |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 7  | FY 06 | A  | 300  | 44  | 256 | 102      | 102  | 52    |         |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 7  | FY 07 | A  | 289  | 0   | 289 | 45       | 102  | 102   | 40     |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 7  | FY 05 | MC | 56   | 56  | 0   |          |      |        |         |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 7  | FY 06 | MC | 44   | 44  | 0   |          |      |        |         |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |

**Total:**

|   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|   |   |   | 1012 | 467 | 545 | 102 | 102 | 97  | 102 | 102 | 40 |

### Production Rates

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**Remarks**

The M107 is produced at Iowa AAP on the same line as the M795. Iowa AAP delivers on a quarterly basis to allow for production flexibility between the two programs.
### Description:
The 155mm Smoke WP M110A2 projectile is a steel shell body filled with 15.6 pounds of White Phosphorous (WP), a M54A1 burster extending through the center, an adapter in the nose of the projectile that is threaded to receive the fuze and an aluminum plug sealing the base of the tube. A lifting plug is installed in the fuze cavity for shipping. A Point Detonating Fuze is normally used; however, a Mechanical Time Super Quick fuze may also be employed. This round is fired from 155mm howitzer platforms to provide immediate screening smoke and marking. This item is Code A, approved for service use.

### Justification:
This is a training standard item used in both training and combat. The FY 2007 procurement supports annual training and builds a war reserve inventory in accordance with the Army's procurement goals.

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

**Date:** February 2006

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

**Weapon System Type:** PROJ, ARTILLERY, 155MM, WP SMOKE, M110 (E27900)

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**Remarks:**
# FY 06 / 07 Budget Production Schedule

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Item No. 17 Page 18 of 20
Exhibit P-21
Production Schedule
## FY 08 / 09 BUDGET PRODUCTION SCHEDULE

### P-1 ITEM NOMENCLATURE

**PROJ, ARTILLERY, 155MM, WP SMOKE, M110 (E27900)**

**Date:**
February 2006

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- Initial
- Reorder
- Initial
- Reorder
- Initial
- Reorder

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Exhibit P-40, Budget Item Justification Sheet

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Description:
The 155mm Recap program funds the refurbishment of M864 Basebleed Extended Range Dual Purpose Improved Conventional Munition (ER-DPICM) artillery projectiles to provide the Stryker Brigade Combat Teams with a self-destruct DPICM capability. The program strategy is to download M42 and M46 DPICM grenades from M864 projectiles, remove existing M223 grenade fuzes and incorporate a Self-Destruct Fuze (SDF) to the grenades to greatly reduce hazardous duds on the battlefield, as evidenced with the use of DPICM during Operation Desert Storm and Operation Iraqi Freedom, and then Load, Assemble and Pack (LAP) the rounds. The rounds will also include the application of an extended range ordnance (ERO) obturator for increased gun tube life.

The current M864 projectile consists of three components: An ogive, containing an expulsion charge (or self registration charge) at the base of the fuze well; the warhead, a payload of 72 M42/M46 DPICM grenades contained within a hollow steel body; and a solid propellant baseburn unit containing a composite propellant grain and igniter. The grain is ignited by the hot propellant charge gases in the gun chamber and self sustained by the igniter. Burning continues for approximately thirty seconds, significantly reducing base drag resulting in extended range. The M864 is compatible with all 155mm howitzers. The round is compatible with the M203A1 maximum charge and the Modular Artillery Charge System (MACS). This item is Code A, approved for service use.

Justification:
This is a war reserve item. The FY 2007 procurement supports the remanufacture and retrofit of 5,000 M864 Basebleed ER-DPICM projectiles.

TYPE CLASSIFICATION DATE: December 1987
### Description:

This budget line item includes the Excalibur family of munitions for the use in the Lightweight 155mm, Paladin, and the Non-Line of Sight-Cannon (NLOS-C).

FY 2006 includes supplemental funding of $4.5 million to support the global war on terrorism.

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### Exhibit P-5, Weapon AMMO Cost Analysis

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

**P-1 Line Item Nomenclature:**
PROJ 155MM EXTENDED RANGE XM982 (E80100)

**Weapon System Type:**

**Date:**
February 2006

### AMMO Cost Elements

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E80100
PROJ 155MM EXTENDED RANGE XM982

Item No. 18 Page 2 of 9

Weapon System Cost Analysis
**Exhibit P-40, Budget Item Justification Sheet**

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

**Program Elements for Code B Items:**

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**Description:**
Excalibur provides improved fire support through a Precision Guided Extended Range family of munitions with greatly increased accuracy and reduced collateral damage. The Excalibur will be compatible with the M777A2 Lightweight 155mm Howitzer (LW155), the Paladin howitzer, and the Future Combat Systems (FCS) Non-Line of Sight Cannon (NLOS-C). Excalibur will provide a 33% range increase over current Rocket Assisted Projectiles and 10 meter accuracy (circular error probable (CEP)) at all ranges. Excalibur is also highly resistant to GPS jamming. This item is Code B, not approved for service use.

**Justification:**
This is a war reserve item. The FY 2007 procurement supports testing and initial capability of Excalibur (Block I) with the M777A2 LW155 Howitzers organic to SBCT #5 and Paladin. Excalibur is an international program, teamed with the Kingdom of Sweden (KoS), which contributes resources towards the development in accordance with an established Project Agreement. The Excalibur guided projectile program is using an incremental development approach to provide a combat capability to the Soldier as quickly as possible and to deliver advanced capabilities at lower costs as technology continues to mature and additional cost-reduction opportunities are developed. Block Ia-2 delivered in FY08 will provide greatly increased range to LW155, Paladin and FCS Cannon forces Army-wide when fielded. The third planned increment, Block Ib, will be fielded in FY11 and will provide a further performance improvement while significantly lowering unit costs.

**TYPE CLASSIFICATION DATE:** November 2006

FY 2006 includes supplemental funding of $4.5 million to support the global war on terrorism.
**Exhibit P-5, Weapon AMMO Cost Analysis**

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

**P-1 Line Item Nomenclature:**
PROJ 155MM EXTENDED RANGE: XM982-U EXCALIBUR (E80103)

**Weapon System Type:**

**Date:**
February 2006

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**E80100 (E80103)**
PROJ 155MM EXTENDED RANGE: XM982-U EXCALIBUR

Item No. 18 Page 4 of 9

Exhibit P-5

Weapon System Cost Analysis
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REMARKS:
### FY 06 / 07 Budget Production Schedule

#### Project 155mm Extended Range: XM982-U Excalibur (E80103)

**Date:** February 2006

**Exhibit P-21**

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**Total:** 3294 units

**Remarks:**
Production capacity will increase as production awards increase. When the yearly quantities increase, the contractor will self-facilitate to higher rates utilizing replicate individual pieces of tooling.

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#### Production Rates

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**Remarks:** Production capacity will increase as production awards increase. When the yearly quantities increase, the contractor will self-facilitate to higher rates utilizing replicate individual pieces of tooling.
## FY 08 / 09 Budget Production Schedule

**P:1 Item Nomenclature**

PROJ 155MM Extended Range: XM982-U Excalibur (E80103)

**Date:** February 2006

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### FY 12 / 13 BUDGET PRODUCTION SCHEDULE

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### COST ELEMENTS

**PROJ 155MM EXTENDED RANGE: XM982-U EXCALIBUR (E80103)**

**Date:** February 2006

<table>
<thead>
<tr>
<th>Name - Location</th>
<th>PRODUCTION RATES</th>
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<th>MFR</th>
<th>ADMIN LEAD TIME</th>
<th>MFR</th>
<th>TOTAL</th>
<th>REMARKS</th>
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<tr>
<td>Raytheon, Tucson, AZ</td>
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**P-1 ITEM NOMENCLATURE**

**PROJECT 155MM EXTENDED RANGE: XM982-U EXCALIBUR (E80103)**
### Exhibit P-40, Budget Item Justification Sheet

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

**P-1 Item Nomenclature:** Modular Artillery Charge System (MACS), All Types (E27501)

**Program Elements for Code B Items:**

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<th>Code:</th>
<th>Other Related Program Elements:</th>
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<tbody>
<tr>
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<table>
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<tr>
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<td>406.2</td>
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<td>82.5</td>
<td>73.9</td>
<td>84.7</td>
<td>81.3</td>
<td>91.2</td>
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<tr>
<td>Less PY Adv Proc</td>
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<tr>
<td>Total Proc Cost</td>
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<td>71.8</td>
<td>82.5</td>
<td>73.9</td>
<td>84.7</td>
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<td>958.3</td>
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<tr>
<td>Flyaway U/C</td>
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<td>91.2</td>
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<td>81.3</td>
<td>91.2</td>
<td>66.8</td>
<td>958.3</td>
<td></td>
</tr>
</tbody>
</table>

**Description:**
This budget line item funds MACS, All Types.

FY 2006 includes supplemental funding of $0.6 million to support the global war on terrorism.

FY 2006 funding includes a congressional increase of $15.0 million.
### Exhibit P-5, Weapon AMMO Cost Analysis

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

**P-1 Line Item Nomenclature:**
Modular Artillery Charge System (MACS), All Types (E27501)

**Weapon System Type:**

**Date:**
February 2006

#### AMMO Cost Elements

<table>
<thead>
<tr>
<th>ID CD</th>
<th>FY 05</th>
<th>FY 06</th>
<th>FY 07</th>
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<tr>
<td></td>
<td>Total Cost</td>
<td>Qty</td>
<td>Unit Cost</td>
</tr>
<tr>
<td></td>
<td>$000 x1000</td>
<td>$</td>
<td>$000 x1000 $</td>
</tr>
<tr>
<td>E27502 MACS M231</td>
<td>33325 391 85</td>
<td>34612 395 88</td>
<td>36300 405 90</td>
</tr>
<tr>
<td>ER8021 MACS M232</td>
<td>38437 312 123</td>
<td>47841 408 117</td>
<td>37585 314 120</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>71762</strong></td>
<td><strong>82453</strong></td>
<td><strong>73885</strong></td>
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**E27501 Modular Artillery Charge System (MACS), All Types**

Item No. 19 Page 2 of 12

Exhibit P-5

Weapon System Cost Analysis
Date: February 2006

Program Elements for Code B Items:

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</tr>
<tr>
<td>Plus CY Adv Proc</td>
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</tr>
<tr>
<td>Initial Spares</td>
<td>217.5</td>
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<tr>
<td>Total Proc Cost</td>
<td>217.5</td>
</tr>
<tr>
<td>Flyaway U/C</td>
<td></td>
</tr>
<tr>
<td>Weapon System Proc U/C</td>
<td></td>
</tr>
</tbody>
</table>

**Description:**
The Modular Artillery Charge System (MACS), M231 "Low Zone" is intended for use with all US 155mm cannon field artillery systems. The M231 is a "low-zone" increment designed to achieve ranges from 3.0 to 12 kilometers. Each MACS increment includes propellant, an ignition system, and a combustible case. Packaging permits long-term storage and helps protect the items from unplanned stimuli. This item is Code A, approved for service use.

**Justification:**
This is a training standard item used in both training and combat. The FY 2007 procurement supports annual training, and builds war reserve in accordance with the Army's procurement goals. MACS is required to achieve logistics improvements to 155MM cannon field artillery and operational flexibility, rate-of-fire, system accuracy and insensitive munitions (IM) compliance when used in host artillery systems. In addition, MACS is less expensive to procure than the current family of artillery propelling charges and is projected to decrease operation and support costs associated with artillery propelling charges at least 10% once fielded.

**TYPE CLASSIFICATION DATE:** Oct 99
## Exhibit P-5, Weapon AMMO Cost Analysis

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

**P-1 Line Item Nomenclature:**
- MODULAR ARTILLERY CHARGE SYSTEM (MACS), M231 (E27502)

**Weapon System Type:**
- MODULAR ARTILLERY CHARGE SYSTEM (MACS), M231

**Date:**
- February 2006

### AMMO Cost Elements

<table>
<thead>
<tr>
<th>ID CD</th>
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<th>FY 06</th>
<th>FY 07</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Total Cost</td>
<td>Qty</td>
<td>Unit Cost</td>
</tr>
<tr>
<td>AMMUNITION HARDWARE</td>
<td></td>
<td></td>
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<tr>
<td>Load, Assemble, and Pack</td>
<td>5662</td>
<td>391</td>
<td>14.48</td>
</tr>
<tr>
<td>Combustible Case Sets</td>
<td>10248</td>
<td>403</td>
<td>25.43</td>
</tr>
<tr>
<td>Propellant, Single Base, M231</td>
<td>5476</td>
<td>1369</td>
<td>4.00</td>
</tr>
<tr>
<td>Lap Containers</td>
<td>3700</td>
<td>98</td>
<td>37.76</td>
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<tr>
<td>Misc Components</td>
<td>120</td>
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<td>201</td>
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<td><strong>SubTotal AMMO Hardware</strong></td>
<td>25361</td>
<td>26925</td>
<td>27507</td>
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</table>

### Production Support Costs

| | FY 05 | FY 06 | FY 07 |
| | Total Cost | Qty | Unit Cost | Total Cost | Qty | Unit Cost | Total Cost | Qty | Unit Cost |
| Production Engineering | 5114 | 5467 | 5623 | | | | | | |
| Quality Assurance | 370 | 370 | 370 | | | | | | |
| Testing | 1400 | 800 | 1400 | | | | | | |
| Value Engineering | 300 | 50 | 100 | | | | | | |
| Fielding | 780 | 1000 | 1300 | | | | | | |
| **SubTotal Prod. Support** | 7964 | 7687 | 8793 | | | | | | |

**Total** | 33325 | 85.23 | 34612 | 87.63 | 36300 | 89.63
## Exhibit P-5a, Budget Procurement History and Planning

**Date:** February 2006

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

### Weapon System Type:
MODULAR ARTILLERY CHARGE SYSTEM (MACS), M231 (E27502)

### P.I. Line Item Nomenclature:
MODULAR ARTILLERY CHARGE SYSTEM (MACS), M231 (E27502)

### Load, Assemble, and Pack

<table>
<thead>
<tr>
<th>Fiscal Year</th>
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<th>Location</th>
<th>Method and Type</th>
<th>Award Date</th>
<th>Delivery Date</th>
<th>QTY</th>
<th>Unit Cost</th>
<th>Specs Avail Now?</th>
</tr>
</thead>
<tbody>
<tr>
<td>FY 2005</td>
<td>American Ordnance</td>
<td>Middletown, IA</td>
<td>SS/Option</td>
<td>Feb-05</td>
<td>Jul-06</td>
<td>391</td>
<td>14.48</td>
<td>Y</td>
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<tr>
<td>FY 2006</td>
<td>American Ordnance</td>
<td>Middletown, IA</td>
<td>SS/Option</td>
<td>Feb-06</td>
<td>Jan-07</td>
<td>395</td>
<td>14.48</td>
<td>Y</td>
</tr>
<tr>
<td>FY 2007</td>
<td>To Be Selected</td>
<td>Picatinny, NJ</td>
<td>C/FP</td>
<td>Jan-07</td>
<td>Aug-07</td>
<td>405</td>
<td>14.48</td>
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### Combustible Case Sets

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<tr>
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<th>Location</th>
<th>Method and Type</th>
<th>Award Date</th>
<th>Delivery Date</th>
<th>QTY</th>
<th>Unit Cost</th>
<th>Specs Avail Now?</th>
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<tbody>
<tr>
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<td>Coachella, CA</td>
<td>CM-3/FP</td>
<td>Feb-05</td>
<td>Jun-05</td>
<td>403</td>
<td>25.43</td>
<td>Y</td>
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<td>Coachella, CA</td>
<td>CM-4/FP</td>
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<td>Jun-06</td>
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<td>Coachella, CA</td>
<td>CM-5/FP</td>
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<td>May-07</td>
<td>417</td>
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### Propellant, Single Base, M231

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<th>Method and Type</th>
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<th>QTY</th>
<th>Unit Cost</th>
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### Ignition System Propellant

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<td>6.45</td>
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<td>Mar-07</td>
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### Lap Containers

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<th>Unit Cost</th>
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<tr>
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<td>Conco</td>
<td>Louisville, KY</td>
<td>C/Option</td>
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### REMARKS:
## MODULAR ARTILLERY CHARGE SYSTEM (MACS), M231
### FY 06 / 07 BUDGET PRODUCTION SCHEDULE
#### P-1 ITEM NOMENCLATURE

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<th>M</th>
<th>F</th>
<th>R</th>
<th>FY</th>
<th>S</th>
<th>E</th>
<th>PROC QTY</th>
<th>ACCEP PRIOR</th>
<th>BAL DUE</th>
<th>MFR</th>
<th>NAME - LOCATION</th>
<th>MIN</th>
<th>1-8-5</th>
<th>MAX</th>
<th>D+</th>
<th>Reached</th>
<th>MFR</th>
<th>ADMIN LEAD TIME</th>
<th>MFR</th>
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<table>
<thead>
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### Cost Elements

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<th>Fiscal Year 07</th>
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<tbody>
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<td><strong>Total</strong></td>
<td><strong>Total</strong></td>
<td><strong>Total</strong></td>
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<td>2957</td>
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</table>

### Production Rates

- **To Be Selected**
  - Name: American Ordnance, Middletown, IA
  - MIN: 30
  - MAX: 60
  - 1-8-5: 125
  - D+: 0
  - Reached: 8
  - MFR: Initial
  - Admin Lead Time: Prior 1 Oct 3, After 1 Oct 4
  - MFR: Reorder
  - Total: After 1 Oct 11
  - Remarks: Initial

- **Initial**
  - Name: American Ordnance, Middletown, IA
  - MIN: 30
  - MAX: 60
  - 1-8-5: 125
  - D+: 0
  - Reached: 0
  - MFR: Initial
  - Admin Lead Time: Prior 1 Oct 3, After 1 Oct 4
  - MFR: Initial
  - Total: 11
  - Remarks: Initial

- **Reorder**
  - Name: American Ordnance, Middletown, IA
  - MIN: 30
  - MAX: 60
  - 1-8-5: 125
  - D+: 0
  - Reached: 0
  - MFR: Initial
  - Admin Lead Time: Prior 1 Oct 3, After 1 Oct 4
  - MFR: Initial
  - Total: 11
  - Remarks: Initial

### Remarks

**Load, Assemble, and Pack**

- **Later**
  - FY 05: P 1582, A 391, A 395, A 405, MC 184
  - FY 06: A 395, A 405, A 395, A 405, A 184

---

E27501 (E27502) MODULAR ARTILLERY CHARGE SYSTEM (MACS), M231

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Exhibit P-21 Production Schedule
# FY 08 / 09 Budget Production Schedule

## Cost Elements

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<thead>
<tr>
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<th>Calendar Year 08</th>
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| 2957 | 2662 | 295 | 60 | 60 | 60 | 55 | 0 |

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

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**Description:**
The Modular Artillery Charge System (MACS), M232 "High Zone" is intended for use with all US 155mm cannon field artillery systems. The M232 "high zone" increment is designed to achieve ranges from 10-40+ kilometers. Each MACS increment includes propellant, an ignition system, and a combustible case. Performance enhancing additives are included in the M232 "high zone" increment. Packaging permits long-term storage and helps protect the items from unplanned stimuli. This item is type classified Code A, approved for service use.

**Justification:**
This is a training standard item used for both training, war reserve and test requirements for the Light Weight (LW) 155mm Howitzer. FY 2007 procurement supports annual training requirement for LW 155mm. MACS is required to achieve logistics improvements to 155MM cannon field artillery and operational flexibility, rate-of-fire, system accuracy and Insensitive Munitions (IM) compliance when used in host artillery systems. In addition, MACS is less expensive to procure than the current family of artillery propelling charges and is projected to decrease operation and support costs associated with artillery propelling charges at least 10% once fielded.

**TYPE CLASSIFICATION DATE:** Aug 01

FY06 includes supplemental funding of $600K to support the global war on terrorism.

FY 2006 includes supplemental funding of $0.6 million to support the global war on terrorism.

FY 2006 funding includes a congressional increase of $15.0 million.
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**REMARKS:**
## FY 06 / 07 BUDGET PRODUCTION SCHEDULE

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### Load, Assemble and Pack

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| FY 05 A | 312 | 0 | 312 | 35 | 50 | 50 | 50 | 50 | 27 | 0 |
| FY 06 A | 408 | 0 | 408 | | | | | | | |
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| FY 05 P MC | 64 | 0 | 64 | 49 | 15 | 0 |

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### Production Schedule

- **Date:** February 2006
- **Exhibit:** P-21

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E27501 (ER8021)
MODULAR ARTILLERY CHARGE SYSTEM (MACS), M232
Item No. 19 Page 11 of 12
Exhibit P-21
Production Schedule
## FY 08 / 09 BUDGET PRODUCTION SCHEDULE

### P-1 ITEM NOMENCLATURE

MODULAR ARTILLERY CHARGE SYSTEM (MACS), M232 (ER8021)

Date: February 2006

### COST ELEMENTS

#### Load, Assemble and Pack

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**Total**: 1959

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<th>1-8-5</th>
<th>MAX</th>
<th>D+</th>
<th>Reached</th>
<th>MFR</th>
<th>ADMIN LEAD TIME</th>
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<td>125</td>
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### TOTAL

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**Total**: 387
**Exhibit P-40, Budget Item Justification Sheet**

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

**P-1 Item Nomenclature** ARTILLERY FUZES, ALL TYPES (ER8000)

Date: February 2006

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<tr>
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<tr>
<td>Net Proc P1</td>
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<td>41.2  22.6  4.1  15.4  35.0  40.3  52.8  1033.9</td>
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<tr>
<td>Initial Spares</td>
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<tr>
<td>Total Proc Cost</td>
<td>822.5</td>
<td>41.2  22.6  4.1  15.4  35.0  40.3  52.8  1033.9</td>
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<tr>
<td>Flyaway U/C</td>
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<td></td>
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<tr>
<td>Weapon System Proc U/C</td>
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**Description:**

This budget line includes Artillery Fuzes, All Types.
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<th>FY 07</th>
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Appropriation/Budget Activity/Serial No: Procurement of Ammunition, Army/1
Ammunition

P-1 Line Item Nomenclature: ARTILLERY FUZES, ALL TYPES (ER8000)

Weapon System Type: Ammunition

Date: February 2006
### Exhibit P-40, Budget Item Justification Sheet

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

**P-1 Item Nomenclature**
FUZE, ELECTRONIC TIME, M767A1 (E99100)

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<th>FY 2006</th>
<th>FY 2007</th>
<th>FY 2008</th>
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<th>FY 2010</th>
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**Description:**
The M767A1 Electronic Time (ET) Fuze is used with 105mm and 155mm bursting projectiles. The M767A1 ET Fuze is a boosted version of the M762A1 ET Fuze. The M767A1 retains the existing dual setting capability (1) hand set without need for any tool, and (2) remote inductive setting for higher rates of fire. In addition to US requirements, the fuze also complies with NATO Rationalization, Standardization, and Interoperability (RSI) agreements for artillery weapon systems. The fuze utilizes a quartz crystal for its time base providing greater accuracy without increased cost. Because of the faster and easier setting methods, employment of the M767A1 Fuze will result in fewer setting errors over the M582A1 Mechanical Time Super Quick (MTSQ) Fuze that it replaces. The M767A1 Fuze is also considerably more accurate than the MTSQ, especially over extended ranges. This item is code A, approved for service use.

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

**TYPE CLASSIFICATION DATE:** February 2001
### Exhibit P-5, Weapon AMMO Cost Analysis

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

**P-1 Line Item Nomenclature:**
- FUZE, ELECTRONIC TIME, M767A1 (E99100)

**Weapon System Type:**

**Date:**
- February 2006

#### AMMO Cost Elements

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<th>FY 06</th>
<th>FY 07</th>
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<td>Unit Cost</td>
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## Exhibit P-5a, Budget Procurement History and Planning

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<th>P-1 Line Item Nomenclature:</th>
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<td>FUZE, ELECTRONIC TIME, M767A1 (E99100)</td>
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<th>Unit Cost</th>
<th>Specs Avail Now?</th>
<th>Date Revsn Avail</th>
<th>RFP Issue Date</th>
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<td>Picatinny Arsenal</td>
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*Box, Metal, M2A1 (GFM)  

REMARKS: FY 2005 is the last year of the 5-year multi-year contract.
## FY 06 / 07 Budget Production Schedule

### P-1 Item Nomenclature
- **FUZE, ELECTRONIC TIME, M767A1** (E99100)

**Exhibit P-21**

### Cost Elements

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<th>FY</th>
<th>S</th>
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**COST ELEMENTS**

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### Production Schedule

**Fiscal Year 06**

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**Calendar Year 06**

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<th>FY</th>
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<th>E</th>
<th>QTY</th>
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**Fuze, ET M767A1**

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### Production Rates

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<th>REMARKS</th>
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**MFR**

- Initial
- Reorder

**Remarks**

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

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

**P-1 Item Nomenclature**
FUZE, ELECTRONIC TIME, M762A1 (E99200)

**Program Elements for Code B Items:**

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| Description: |
| The M762A1 Electronic Time (ET) Fuze is used with the 105mm and 155mm cargo carrying artillery projectiles. The M762A1 retains the existing dual setting capability: (1) Hand set without need for any tool, and (2) remote inductive setting for higher rates of fire. In addition to the US requirements, the Fuze complies with NATO Rationalization, Standardization and Interoperability (RSI) agreements for artillery weapon systems. The fuze utilizes a quartz crystal for its time base providing greater accuracy without increased cost with the faster setting methods, employment of the M762A1 Fuze will result in fewer setting errors over the current M762 Fuze and the M577A1 Mechanical Time (MT) Fuze that it replaces. The M762A1 Fuze is also considerably more accurate than the MT, especially over extended ranges. This item is code A, approved for service use. |

| Justification: |
| This is a training standard item used in both training and combat. The FY 2007 procurement supports training and builds a war reserve inventory in support of the Army's procurement goals. |

**TYPE CLASSIFICATION DATE:** February 2001
### Exhibit P-5, Weapon AMMO Cost Analysis

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

**P-1 Line Item Nomenclature:**
- FUZE, ELECTRONIC TIME, M762A1 (E99200)

**Weapon System Type:**
- Date: February 2006

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

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

**Weapon System Type:**
Fuze, Electronic Time, M762A1

**P-1 Line Item Nomenclature:**
Fuze, Electronic Time, M762A1 (E99200)

### WBS Cost Elements:

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<th>Location of PCO</th>
<th>Award Date</th>
<th>Date of First Delivery</th>
<th>QTY x1000</th>
<th>Unit Cost $</th>
<th>Specs Avail Now?</th>
<th>Date Revsn Avail</th>
<th>RFP Issue Date</th>
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<td>Picatinny Arsenal</td>
<td>Feb-07</td>
<td>Feb-08</td>
<td>23</td>
<td>135</td>
<td>Yes</td>
<td></td>
</tr>
<tr>
<td>* Box, Metal, M2A1</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
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</tr>
<tr>
<td>FY 2005</td>
<td>Stock Issue</td>
<td>NA</td>
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<td></td>
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<tr>
<td>FY 2006</td>
<td>Stock Issue</td>
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<td>FY 2007</td>
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**REMARKS:**

---

ER8000 (E99200)
FUZE, ELECTRONIC TIME, M762A1

Item No. 20 Page 9 of 16
Budget Procurement History and Planning

Exhibit P-5a
<table>
<thead>
<tr>
<th>Fiscal Year 06</th>
<th>Fiscal Year 07</th>
</tr>
</thead>
<tbody>
<tr>
<td>Calendar Year 06</td>
<td>Calendar Year 07</td>
</tr>
</tbody>
</table>

| 1 | FY 05 | A | 75 | 0 | 75 | 12 | 26 | 19 | 18 | 0 |
| 1 | FY 06 | A | 194 | 0 | 194 | A | 22 | 22 | 22 | 22 | 22 | 22 | 18 | 0 |
| 1 | FY 07 | A | 23 | 0 | 23 | A | 23 | 0 |
| 1 | FY 05 | MC | 42 | 0 | 42 | 22 | 20 | 0 |
| 1 | FY 06 | MC | 13 | 0 | 13 | A | 13 | 0 |
| 1 | FY 07 | MC | 5 | 0 | 5 | A | 5 |

**Total:** 351 (FY 06) 351 (FY 07) 12 26 19 18 22 22 44 42 22 22 22 22 18 13 28

**COST ELEMENTS**

- Fuze ET, M762A1

**PRODUCTION RATES**

<table>
<thead>
<tr>
<th>Name - Location</th>
<th>MIN</th>
<th>1-8-5</th>
<th>MAX</th>
<th>D+</th>
<th>Reached</th>
<th>MFR</th>
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<tr>
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**ADMIN LEAD TIME**

- Prior 1 Oct: 4
- After 1 Oct: 7

**MFR**

- 4
- 5
- 12
- 19

**TOTAL**

- 17

**REMARKS**

- Initial
- Reorder
- Initial
- Reorder
- Initial
- Reorder
- Initial
- Reorder
<table>
<thead>
<tr>
<th>M</th>
<th>F</th>
<th>R</th>
<th>COST ELEMENTS</th>
<th>MFR</th>
<th>TOTAL</th>
<th>REMARKS</th>
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<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td>Fuze ET, M762A1</td>
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<td></td>
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<tr>
<td>FY 05 A</td>
<td>75</td>
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<tr>
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<tr>
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<td>FY 06 MC</td>
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**Total:** 351 324 28 23 5

**Production Rates**

Name: Bulova, Lancaster, PA

- **MIN:** 10
- **1-8-5:** 22
- **MAX:** 30
- **D+:** 0

**Reached:** Initial

**MFR:** 1

**Admin Lead Time:**

- **Prior 1 Oct:** 4
- **After 1 Oct:** 7
- **After 1 Oct:** 12
- **Total:** 19

**Remarks:**

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

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

**P-1 Item Nomenclature**
FUZE, MULTI OPTION, ARTILLERY (MOFA) (ER8017)

**Program Elements for Code B Items:**

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
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<th></th>
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<tbody>
<tr>
<td>Proc Qty</td>
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<td>84</td>
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<td>Gross Cost</td>
<td>176.6</td>
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<td>199.7</td>
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<tr>
<td>Less PY Adv Proc</td>
<td></td>
<td></td>
<td></td>
<td></td>
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<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Plus CY Adv Proc</td>
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<td></td>
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<td></td>
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<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Net Proc P1</td>
<td>176.6</td>
<td>23.1</td>
<td></td>
<td></td>
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<td></td>
<td></td>
<td>199.7</td>
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</tr>
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<td>Total Proc Cost</td>
<td>176.6</td>
<td>23.1</td>
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<td></td>
<td></td>
<td></td>
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<td>Flyaway U/C</td>
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<td></td>
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<tr>
<td>Weapon System Proc U/C</td>
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<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Description:**
The Multi Option Fuze for Artillery (MOFA) is compatible with all bursting projectile ammunition fired from all 105mm and 155mm cannon systems including M109A6 (Paladin), M198 Towed Howitzer, and XM777 Lightweight 155mm Towed Howitzer. The MOFA provides proximity, precision time, delay and impact functions in a single fuze. 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.

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

**TYPE CLASSIFICATION DATE:** 13 Dec 1999
<table>
<thead>
<tr>
<th>AMMO Cost Elements</th>
<th>FY 05</th>
<th>FY 06</th>
<th>FY 07</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Total Cost</td>
<td>Qty</td>
<td>Unit Cost</td>
</tr>
<tr>
<td>AMMUNITION HARDWARE</td>
<td>$000</td>
<td>Units</td>
<td>$000</td>
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<tr>
<td>M782 Complete Fuze</td>
<td>18362</td>
<td>84</td>
<td>219</td>
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<tr>
<td>*M2A1 AMMO Cans</td>
<td>120</td>
<td>11</td>
<td>12</td>
</tr>
<tr>
<td>SubTotal AMMO Hardware</td>
<td>18482</td>
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<tr>
<td>Production Support Costs</td>
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<td>Production Engineering</td>
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<td>Logistics and Packaging</td>
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<td>Quality Assurance, Safety and Environ.</td>
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<td>Lot Acceptance Testing</td>
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<td>SubTotal Prod. Support</td>
<td>4764</td>
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<td></td>
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<tr>
<td>*Government Furnished Material</td>
<td>-120</td>
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<td>Total</td>
<td>23126</td>
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## Exhibit P-5a, Budget Procurement History and Planning

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

<table>
<thead>
<tr>
<th>Appropriation/Budget Activity/Serial No:</th>
<th>Weapon System Type:</th>
<th>P-I Line Item Nomenclature:</th>
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<tbody>
<tr>
<td>Procurement of Ammunition, Army/1/ Ammunition</td>
<td>FUZE, MULTI OPTION, ARTILLERY (MOFA) (ER8017)</td>
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<table>
<thead>
<tr>
<th>WBS Cost Elements:</th>
<th>Contractor and Location</th>
<th>Contract Method and Type</th>
<th>Location of PCO</th>
<th>Award Date</th>
<th>Date of First Delivery</th>
<th>QTY x1000</th>
<th>Unit Cost $</th>
<th>Specs Avail Now?</th>
<th>Date Revsn Avail</th>
<th>RFP Issue Date</th>
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<tbody>
<tr>
<td>M782 Complete Fuze FY 2005</td>
<td>Alliant Techsystems Inc. Janesville, WI.</td>
<td>CM-4/FP</td>
<td>Picatinny Arsenal</td>
<td>Jan-05</td>
<td>Jun-06</td>
<td>84</td>
<td>219</td>
<td>Y</td>
<td>Feb-02</td>
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**REMARKS:**

| Date | February 2006 |
| M | F | R | FY | S | E | QTY x1000 | PROC TO | ACCEP AS OF | BAL DUE | O | N | D | T | V | C | M | A | P | R | Y | N | L | G | P | J | A | E | R | U | U | L | G | P |
| M782 Complete Fuze |
| 1 | FY 05 | P | A | 651 | 282 | 369 | 3 | 4 | 5 | 10 | 13 | 24 | 5 | 8 | 25 | 10 | 25 | 25 | 25 | 25 | 25 | 25 | 12 | 0 | 9 |
| 1 | FY 05 | A | 84 | 0 | 84 | 5 | 15 | 25 | 26 | 0 |
| 1 | FY 05 | MC | 45 | 0 | 45 | 22 | 22 | 1 | 0 |
| 1 | FY 06 | MC | 9 | 0 | 9 | A | 9 |

<table>
<thead>
<tr>
<th>M</th>
<th>F</th>
<th>R</th>
<th>FY</th>
<th>S</th>
<th>E</th>
<th>QTY</th>
<th>COST ELEMENTS</th>
<th>Reached</th>
<th>MFR</th>
<th>ADMIN LEAD TIME</th>
<th>MFR</th>
<th>TOTAL</th>
<th>REMARKS</th>
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<tbody>
<tr>
<td>1</td>
<td>Alliant Techsystems Inc., Janesville, WI</td>
<td>10</td>
<td>22</td>
<td>30</td>
<td>0</td>
<td>1 Initial</td>
<td>3</td>
<td>12</td>
<td>18</td>
<td>30</td>
<td>18</td>
<td>12</td>
<td>3</td>
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**FY 06 / 07 BUDGET PRODUCTION SCHEDULE**

**P.1 ITEM NOMENCLATURE**

**FUZE, MULTI OPTION, ARTILLERY (MOFA) (ER8017)**

**Date:** February 2006

**Exhibit P-21**

**FUZE, MULTI OPTION, ARTILLERY (MOFA)**
## FY 08 / 09 BUDGET PRODUCTION SCHEDULE

<table>
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<tr>
<th>M/F</th>
<th>FY</th>
<th>S/E</th>
<th>QTY</th>
<th>PRIOR</th>
<th>BAL</th>
<th>DUE</th>
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<tbody>
<tr>
<td>F/E</td>
<td>R</td>
<td>V</td>
<td>x1000</td>
<td>TO 1 OCT</td>
<td>AS OF 1 OCT</td>
<td></td>
</tr>
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</table>

### COST ELEMENTS

<table>
<thead>
<tr>
<th>M782 Complete Fuze</th>
</tr>
</thead>
<tbody>
<tr>
<td>FY 05 P</td>
</tr>
<tr>
<td>FY 05</td>
</tr>
<tr>
<td>FY 05</td>
</tr>
<tr>
<td>FY 06</td>
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</table>

**Total: 789**

### ADMIN LEAD TIME

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<th>After 1 Oct</th>
<th>After 1 Oct</th>
<th>After 1 Oct</th>
</tr>
</thead>
<tbody>
<tr>
<td>FY 05 P</td>
<td>A</td>
<td>3</td>
<td>12</td>
<td>18</td>
</tr>
<tr>
<td>FY 05</td>
<td>A</td>
<td>3</td>
<td>4</td>
<td>18</td>
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**Total: 780**

### PRODUCTION RATES

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<tr>
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<th>1-8-5</th>
<th>MAX</th>
<th>D+</th>
<th>Reached</th>
<th>MFR</th>
<th>ADMIN LEAD TIME</th>
<th>MFR</th>
<th>TOTAL</th>
<th>REMARKS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Alliant Techsystems Inc., Janesville, WI</td>
<td>10</td>
<td>22</td>
<td>30</td>
<td>0</td>
<td>Initial</td>
<td>1</td>
<td>Initial</td>
<td>3</td>
<td>12</td>
<td>18</td>
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</table>

**403**

Item No. 20 Page 16 of 16

Exhibit P-21

Production Schedule
### Exhibit P-40, Budget Item Justification Sheet

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

**P-I Item Nomenclature**
MINE, TRAINING, ALL TYPES (EA0800)

<table>
<thead>
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<th>Program Elements for Code B Items:</th>
<th>Code:</th>
<th>Other Related Program Elements:</th>
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<td></td>
<td>Prior Years</td>
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<td>Proc Qty</td>
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</tr>
<tr>
<td>Gross Cost</td>
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<td>1.3</td>
</tr>
<tr>
<td>Less PY Adv Proc</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Net Proc P1</td>
<td>55.9</td>
<td>1.3</td>
</tr>
<tr>
<td>Initial Spares</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Total Proc Cost</td>
<td>55.9</td>
<td>1.3</td>
</tr>
<tr>
<td>Flyaway U/C</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Weapon System Proc U/C</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Description:**
This budget line buys hand-emplaced/dispensed training mines, All Types. This includes the M68 trainer for the M18A1 Claymore and the M88 trainer for the M87A1 Volcano.
<table>
<thead>
<tr>
<th>AMMO Cost Elements</th>
<th>ID</th>
<th>FY 05</th>
<th>FY 06</th>
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</thead>
<tbody>
<tr>
<td></td>
<td>CD</td>
<td>Total Cost</td>
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<td>Unit Cost</td>
</tr>
<tr>
<td>E43700 MINE AP PRACTICE M68 (CLAYMORE)</td>
<td>980</td>
<td>3</td>
<td>387</td>
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<td>E72194 MINE PRACTICE M88 (VOLCANO)</td>
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<td><strong>Total</strong></td>
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<th>FY 2007</th>
<th>FY 2008</th>
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<th>FY 2010</th>
<th>FY 2011</th>
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<td>4.2</td>
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<td>5.0</td>
<td>0.0</td>
<td>152.9</td>
</tr>
<tr>
<td>Less PY Adv Proc</td>
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<td></td>
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</tr>
<tr>
<td>Gross Cost</td>
<td>123.5</td>
<td>3.4</td>
<td>4.0</td>
<td>4.2</td>
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<tr>
<td>Total Proc Cost</td>
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<td>4.2</td>
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<tr>
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<td>0.3</td>
<td>0.3</td>
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</tbody>
</table>

**Description:**

Mines (Conventional), All Types includes funding for the M18A1 Anti-Personnel Munition (Claymore).
## Exhibit P-5, Weapon AMMO Cost Analysis

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

**P-1 Line Item Nomenclature:**
MINES (CONVENTIONAL), ALL TYPES (E43799)

**Weapon System Type:**
MINES (CONVENTIONAL), ALL TYPES

**Date:**
February 2006

### AMMO Cost Elements

<table>
<thead>
<tr>
<th>ID CD</th>
<th>FY 05</th>
<th>FY 06</th>
<th>FY 07</th>
</tr>
</thead>
<tbody>
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<td>Qty</td>
<td>Unit Cost</td>
</tr>
<tr>
<td></td>
<td>$000 x1000</td>
<td>$</td>
<td>$000 x1000</td>
</tr>
<tr>
<td>Mine, Anti Personnel, M18A1 (Claymore)</td>
<td>3379 9</td>
<td>378</td>
<td>3955 6</td>
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<tr>
<td>Total</td>
<td>3379</td>
<td>9 378</td>
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### Exhibit P-40, Budget Item Justification Sheet

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

**P-1 Item Nomenclature**
- MINE, CLEARING CHARGE, ALL TYPES (E75100)

**Program Elements for Code B Items:**

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<th>FY 2005</th>
<th>FY 2006</th>
<th>FY 2007</th>
<th>FY 2008</th>
<th>FY 2009</th>
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**Description:**
This budget includes Mine Clearing Charges, All Types. It includes the M68A2 Inert Line Charge for MICLIC Training.
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<th>FY 06</th>
<th>FY 07</th>
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<tr>
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<tr>
<td>Plus CY Adv Proc</td>
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<tr>
<td>Weapon System Proc U/C</td>
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**Description:**
This budget line includes Antipersonnel Landmine Alternatives (APLA), All Types.
### Exhibit P-5, Weapon AMMO Cost Analysis

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

**P-1 Line Item Nomenclature:**
ANTIPERSONNEL LANDMINE ALTERNATIVES (E95900)

**Weapon System Type:**

**Date:**
February 2006

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### Description:
The Spider is a hand emplaced, remotely controlled, anti-personnel munition system used for the detection, identification, and engagement of selected targets in accordance with the commander's intent. A Spider munition system consists of a control station, a communications repeater, and munitions that apply both lethal and non-lethal anti-personnel effects. Missions include providing force protection, shaping the battlefield, providing warning and delaying and attriting enemy forces. The Spider is designed to mitigate the indiscriminate engagement of the lethal mechanism. Spider ammunition components include: munition assemblies, extended range tripwire sensors, and miniature grenade launchers. A soldier/marine makes a conscious decision to engage a target with the lethal mechanism. The envisioned obstacle can either be a permanent obstacle, such as the Korean Barrier System (KBS), or a temporary obstacle intended to be reused in other locations, such as forward airbases. This item is code B, not approved for service use.

### Justification:
This is a war reserve item used in combat. FY 2007 procurement builds war reserve inventory in accordance with the Army's procurement goals. Spider is a DOD special interest program as a result of Presidential Decision Directives requiring OSD to search aggressively for alternatives to the M14 and M16, legacy non-self destruct antipersonnel landmines.

### TYPE CLASSIFICATION:
March 2006 - LRIP

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

### P-1 Item Nomenclature:
SPIDER NETWORKED MUNITIONS SYSTEM (E91700)

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

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<td>SPIDER NETWORKED MUNITIONS SYSTEM (E91700)</td>
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<th>Award Date</th>
<th>Date of First Delivery</th>
<th>QTY Each</th>
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**REMARKS:**
## FY 06 / 07 BUDGET PRODUCTION SCHEDULE

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### COST ELEMENTS

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### TOTAL

| TOTAL | 290 | 290 | 290 |

### MFR PRODUCTION RATES

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<th>MFR After 1 Oct</th>
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- **P-1 ITEM NOMENCLATURE**
  - SPIDER NETWORKED MUNITIONS SYSTEM (E91700)

- **Date:** February 2006

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Item No. 24 Page 6 of 7

SPIDER NETWORKED MUNITIONS SYSTEM

415

Exhibit P-21

Production Schedule
### FY 08 / 09 BUDGET PRODUCTION SCHEDULE

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#### Cost Elements

**Spider Systems**

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P-1 ITEM NOMENCLATURE

SPIDER NETWORKED MUNITIONS SYSTEM (E91700)

Date: February 2006

Item No. 24 Page 7 of 7

E95900 (E91700)

SPIDER NETWORKED MUNITIONS SYSTEM

Production Schedule
### Program Elements for Code B Items:

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<thead>
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<th>Prior Years</th>
<th>FY 2005</th>
<th>FY 2006</th>
<th>FY 2007</th>
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<th>FY 2009</th>
<th>FY 2010</th>
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### Description:

This budget line includes Shoulder Fired Rockets, All Types.

FY2006 includes supplemental funding of $5.0M to support the global war on terrorism.
## Exhibit P-5, Weapon AMMO Cost Analysis

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

**P-1 Line Item Nomenclature:**
SHOULDER FIRED ROCKETS, ALL TYPES (EA4000)

**Weapon System Type:**

### Date:
February 2006

#### AMMO

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<thead>
<tr>
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EA4000

SHOULDER FIRED ROCKETS, ALL TYPES

Item No. 25 Page 2 of 11

Exhibit P-5

Weapon System Cost Analysis
### Exhibit P-40, Budget Item Justification Sheet

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

**P-1 Item Nomenclature**
AT4 - Confined Space (E36101)

#### Program Elements for Code B Items:

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**Description:**
The AT4 is the Army's primary shoulder-launched, lightweight, anti-tank weapon. This procurement is for the AT4-Confined Space (CS) weapon, a safety enhanced version of the M136 AT4 Multipurpose Weapon. The AT4-CS is a self-contained weapon consisting of a free-flight, fin-stabilized, rocket packed in an expendable, 1-piece launch tube. The recoilless design permits accurate delivery of the 84mm High Explosive Anti-Armor warhead out to 250 meters.

The AT4-CS incorporates a safety modification to the propulsion system that significantly reduces the weapon's back blast and launch signature. This will allow the user to safely fire the weapon from a protected area or enclosed space during close combat operations. This item is Code B, not approved for service use.

**Justification:**
This is a training standard item used in both training and combat. FY 2007 procurement supports annual training and builds a war reserve inventory in accordance with the Army's procurement goals.

**TYPE CLASSIFICATION (TC) DATE:** August 2006
## Exhibit P-5, Weapon AMMO Cost Analysis

**P-1 Line Item Nomenclature:**
AT4 - Confined Space (E36101)

**Weapon System Type:**
Ammunition

**Date:**
February 2006

### AMMO Cost Elements

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

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

**Weapon System Type:**
- AT4 - Confined Space (E36101)

**P-1 Line Item Nomenclature:**
- AT4 - Confined Space (E36101)

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**REMARKS:** FY05-07 are priced options to the FY04 contract. Prices are subject to currency fluctuations.
## FY 06 / 07 Budget Production Schedule

**Exhibit P-21**

**P-1 Item Nomenclature:** AT4 - Confined Space (E36101)

**Date:** February 2006

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**COST ELEMENTS**

|   |      |      |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |

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**Production Rates**

| M | F | R | Name - Location | MIN | 1-8-5 | MAX | D+ | Reached | MFR | ADMIN LEAD TIME | MFR | TOTAL | REMARKS |
|---|---|---|-----------------|-----|-------|-----|----|---------|-----|               |-----|--------|---------|
|   |   |   | SAAB Bofors Dynamics AB, Karlskoga, Sweden | 5   | 2750  | 8300 | 0  | Initial | 6   | 14     | 21   |
|   |   |   |                  | 6   | 7     | 12  | 18  | Initial | Reorder | 6     | 6     | 18     |

|   |   |   |                  | 6   | 7     | 12  | 18  | Initial | Reorder | 6     | 6     | 18     |
|   |   |   |                  | 6   | 7     | 12  | 18  | Initial | Reorder | 6     | 6     | 18     |
|   |   |   |                  | 6   | 7     | 12  | 18  | Initial | Reorder | 6     | 6     | 18     |
|   |   |   |                  | 6   | 7     | 12  | 18  | Initial | Reorder | 6     | 6     | 18     |
|   |   |   |                  | 6   | 7     | 12  | 18  | Initial | Reorder | 6     | 6     | 18     |

**Item No. 25 Page 6 of 11**

**Exhibit P-21**

**Production Schedule**
### FY 08 / 09 BUDGET PRODUCTION SCHEDULE

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Exhibit P-40, Budget Item Justification Sheet

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

P-1 Item Nomenclature
BUNKER DEFEAT MUNITION (E88401)

Program Elements for Code B Items: Code: B Other Related Program Elements:

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<th>FY 2007</th>
<th>FY 2008</th>
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Description:
The Bunker Defeat Munition (BDM) is a single-shot, disposable, shoulder-launched munition used to defeat earth and timber field fortifications (bunkers) out to 250 meters. The system also defeats lightly armored vehicles and breaches masonry walls using its 83mm High Explosive, Dual-Purpose rocket. Additionally, each telescoping launcher has an integral night-vision device mount to accept any sight or laser aiming light with rail-grabber attachment. BDM is authorized for use by contingency forces. The item is Code B, not approved for service use.

Justification:
This is a training standard item used in both training and combat. FY2007 funds support engineering in support of production.

TYPE CLASSIFICATION: Limited Procurement - September 1994

FY 2006 includes supplemental funding of $5.0 million to support the global war on terrorism.
## Exhibit P-5, Weapon AMMO Cost Analysis

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**Exhibit P-5, Weapon AMMO Cost Analysis**

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

**P-1 Line Item Nomenclature:**
- BUNKER DEFEAT MUNITION (E88401)

**Weapon System Type:**
- Exhibition

**Date:**
- February 2006
## Exhibit P-5a, Budget Procurement History and Planning

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**REMARKS:** FY06 program was Bridge Supplemental only.
## FY 06 / 07 BUDGET PRODUCTION SCHEDULE

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**COST ELEMENTS**

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**Complete Round**

- FY 05: A 828 0 828
- FY 06: A 441 0 441

**Total**

- FY 06: 1269
- FY 07: 1269
- FY 06: 700
- FY 07: 128
- FY 06: 441
- FY 07: 0

**ADMIN LEAD TIME**

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**REMARKS**

- Initial
- Reorder
- Initial
- Reorder
Exhibit P-40, Budget Item Justification Sheet

Date: February 2006

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

P-1 Item Nomenclature
ROCKET, HYDRA 70, ALL TYPES (E37300)

Program Elements for Code B Items:

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<td>Weapon System Proc U/C</td>
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**Description:**

This budget line procures all Hydra 70 rocket types in support of training and war reserve requirements. The system provides combat overmatch capability and ensures a near-term war fighting readiness posture. This system of aerial rockets is used by Army aircraft (AH-64A/D Apache, OH-58D Kiowa Warrior, Armed Reconnaissance Helicopter, and Special Operations aircraft) to perform a number of roles including anti-materiel, anti-personnel, and air-to-ground suppression.

FY 2005 includes $12,941 in supplemental funding to support the global war on terrorism.
### Exhibit P-5, Weapon AMMO Cost Analysis

**P-1 Line Item Nomenclature:**
ROCKET, HYDRA 70, ALL TYPES (E37300)

**Weapon System Type:**

**Date:**
February 2006

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

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E37300
ROCKET, HYDRA 70, ALL TYPES

Item No. 26 Page 2 of 31
429

Exhibit P-5
Weapon System Cost Analysis
Program Elements for Code B Items:

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Net Proc P1: 41.3 14.1 13.7 14.0 14.3 14.6 14.9 142.5 269.2

Total Proc Cost: 41.3 14.1 13.7 14.0 14.3 14.6 14.9 142.5 269.2

Initial Spares: 2.1 1.1 1.1 1.1 1.2 1.2 1.2 1.6

Flyaway U/C: 2.1 1.1 1.1 1.1 1.2 1.2 1.2 1.6

Description:
The HYDRA-70 family of rockets is used by Army aircraft (AH-64A/D Apache, OH-58D Kiowa Warrior, Armed Reconnaissance Helicopter, and Special Operations aircraft) to perform a number of roles including anti-materiel, anti-personnel and air-to-ground suppression. The M255A1 Flechette warhead is a cargo warhead consisting of a nose cone assembly, a warhead case, an integral fuze, 1,179 60-grain flechettes and an expulsion charge assembly. The primary fuze (M439) is remotely set with Aerial Rocket Control System (ARCS), Multifunctional Display (MFD) or Rocket Management System (RMS) to provide range from 500 meters to 7200 meters. At expulsion, the 1,179 60-grain, hardened-steel flechettes separate and form a disk-like mass which breaks up with each flechette assuming an independent trajectory. The flechette uses kinetic energy derived from the velocity of the rocket to produce the desired impact and penetration on the target. The warhead weight is 20.3 pounds, and when mated to the MK66 motor, the weight is 27.5 pounds. The overall length of the M255A1 Rocket is 66.1 inches. This item is Code A, approved for service use.

Justification:
This is a war reserve item used in combat. FY 2007 procurement builds a war reserve inventory in accordance with the Army's procurement goals.

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

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

| Date: | February 2006 |

| Appropriation/Budget Activity/Serial No: | Procurement of Ammunition, Army/1/ Ammunition |
| Weapon System Type: | P-1 Line Item Nomenclature: |
| | ROCKET HYDRA 70 FLECHETTE M255A1 W/MK66 MOTOR (ALL (E05302) |

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**REMARKS:**
## FY 05 / 06 BUDGET PRODUCTION SCHEDULE

**P-1 ITEM NOMENCLATURE**
ROCKET HYDRA 70 FLECHETTE M255A1 W/MK66 MOTOR (ALL)

**Date:** February 2006

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- **QTY:** 110.9
- **PRIOR:** 36.0
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- Reorder
- Initial
- Reorder
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- Reorder

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**P-1 ITEM NOMENCLATURE**

ROCKET HYDRA 70 FLECHETTE M255A1 W/MK66 MOTOR (ALL)

**Exhibit P-21**

**Date:** February 2006

**8.0 FY 07 / 08 BUDGET PRODUCTION SCHEDULE**

**COST ELEMENTS**

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**ADMIN LEAD TIME**

**MFR**

**TOTAL**

**REMARKS**

**PRODUCTION RATES**

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**Item No. 26 Page 7 of 31**

**ROCKET HYDRA 70 FLECHETTE M255A1 W/MK66 MOTOR (ALL)**

**Exhibit P-21**

**Production Schedule**
## FY 09 / 10 BUDGET PRODUCTION SCHEDULE

### P-1 ITEM NOMENCLATURE
ROCKET HYDRA 70 FLECHETTE M255A1 W/MK66 MOTOR (ALL)

**Exhibit P-21**

**Date:** February 2006

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**Production Schedule**
### FY 11 / 12 BUDGET PRODUCTION SCHEDULE

**P-1 ITEM NOMENCLATURE**
- ROCKET HYDRA 70 FLECHETTE M255A1 W/MK66 MOTOR (ALL)

**Date:** February 2006

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- S: Fiscal Year 12
- E: Complete Round
- R: Later
## FY 13 / 14 BUDGET PRODUCTION SCHEDULE

### P-1 ITEM NOMENCLATURE
ROCKET HYDRA 70 FLECHETTE M255A1 W/MK66 MOTOR (ALL)

**Date:** February 2006

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ROCKET HYDRA 70 MPSM PRAC M267

Description:
The HYDRA-70 family of rockets is used by Army aircraft (AH-64A/D Apache, OH-58D Kiowa Warrior, Armed Reconnaissance Helicopter, and Special Operations aircraft) to perform a number of roles including anti-materiel, anti-personnel, and air-to-ground suppression. The M267 Multipurpose Submunition (MPSM) practice round is identical in operation to the M261 tactical warhead except that it has three M75 practice submunitions, with a flash powder smoke signature, that takes the place of the nine M73 submunitions. Six inert submunitions are used to complete the weight and balance requirements. The M267 uses the M439 remote fuze, is mated to the MK66 Mod 4 rocket motor, and is required to train with the fire control and rocket management systems on attack helicopters. This item is Code A, approved for service use.

Justification:
This is a training unique item not used in combat. Procurement supports annual training.

TYPE CLASSIFICATION DATE: 1982
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### Exhibit P-5a, Budget Procurement History and Planning

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

**Weapon System Type:**
- ROCKET HYDRA 70 MPSM PRAC M267 (E37334)

**P-1 Line Item Nomenclature:**
- ROCKET HYDRA 70 MPSM PRAC M267 (E37334)

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**ROCKET HYDRA 70 MPSM PRAC M267 (E37334)**  
**Date:** February 2006

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**E37300 (E37334)**  
**ROCKET HYDRA 70 MPSM PRAC M267**
## FY 07 / 08 BUDGET PRODUCTION SCHEDULE

### Item No. 26

#### P-1 ITEM NOMENCLATURE
ROCKET HYDRA 70 MPSM PRAC M267 (E37334)

#### Date:
February 2006

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

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

**P-1 Item Nomenclature**
ROCKET HYDRA 70 HE/PD M151/M423 (E37335)

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#### Appropriation / Budget Activity / Serial No:
PROCUREMENT OF AMMUNITION, ARMY / 1 / AMMUNITION

#### P-1 Item Nomenclature
ROCKET HYDRA 70 HE/PD M151/M423 (E37335)

### Appropriation / Budget Activity / Serial No:
PROCUREMENT OF AMMUNITION, ARMY / 1 / AMMUNITION

#### P-1 Item Nomenclature
ROCKET HYDRA 70 HE/PD M151/M423 (E37335)

### Program Elements for Code B Items:

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### Description:
The HYDRA-70 family of rockets is used by Army aircraft (AH-64A/D Apache, OH-58D Kiowa Warrior helicopters, Armed Reconnaissance Helicopter, and Special Operations aircraft) to perform a number of roles including anti-materiel, anti-personnel, and air-to-ground suppression. The M151 HEPD is a unitary fragmenting 10-lb anti-personnel warhead with the M423 Point Detonating Fuze. Upon detonation, the warhead fragments into thousands of small, high velocity fragments. This item is Code A, approved for service use.

### Justification:
This is a training standard item used in both training and combat. FY 2007 procurements supports annual training and builds a war reserve inventory in accordance with the Army's procurement goals.

### TYPE CLASSIFICATION DATE: 26 February 1982
Exhibit P-5, Weapon AMMO Cost Analysis

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

**Appropriation/Budget Activity/Serial No:** Procurement of Ammunition, Army/1/ Ammunition  
**Weapon System Type:** P-1 Line Item Nomenclature: ROCKET HYDRA 70 HE/PD M151/M423 (E37335)

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**Remarks:**
## FY 05 / 06 BUDGET PRODUCTION SCHEDULE

**ROCKET HYDRA 70 HE/PD M151/M423 (E37335)**

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**E37300 (E37335)**

**ROCKET HYDRA 70 HE/PD M151/M423**

**Item No. 26 Page 19 of 31**

**Exhibit P-21**

**Production Schedule**
### FY 07 / 08 BUDGET PRODUCTION SCHEDULE

**P-1 ITEM NOMENCLATURE**
ROCKET HYDRA 70 HE/PD M151/M423 (E37335)

**Date:**
February 2006

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E37300 (E37335)
ROCKET HYDRA 70 HE/PD M151/M423

Item No. 26 Page 20 of 31
Exhibit P-21
Production Schedule
## FY 09 / 10 BUDGET PRODUCTION SCHEDULE

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| Date: | February 2006 |

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E37300 (E37335)
ROCKET HYDRA 70 HE/PD M151/M423
Exhibit P-21
Production Schedule
### FY 11 / 12 BUDGET PRODUCTION SCHEDULE

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### MFR PRODUCTION RATES

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**General Dynamics, Burlington, VT**

- **MIN**: 0.3
- **1-8.5**: 15.0
- **MAX**: 46.0
- **D+**: 0
- **Reached**: 1
- **MFR**: Initial
- **Admin Lead Time**: 6 (Prior 1 Oct), 7 (After 1 Oct), 22 (After 1 Oct), 29 (After 1 Oct)
- **Total**: 6 (Prior 1 Oct), 5 (After 1 Oct), 16 (After 1 Oct), 21 (After 1 Oct)

**Remarks**: Initial, Reorder
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**Remarks**

- Initial
- Reorder
- Initial
- Reorder
- Initial
- Reorder
Exhibit P-40, Budget Item Justification Sheet

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

P-1 Item Nomenclature
ROCKET HYDRA 70 SIG PRAC M274 (E37337)

Program Elements for Code B Items:

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Less PY Adv Proc

Plus CY Adv Proc

Net Proc P1

790.3  104.6  84.7  90.7  92.6  94.5  96.4  98.4  943.0  2395.1

Initial Spares

Total Proc Cost

790.3  104.6  84.7  90.7  92.6  94.5  96.4  98.4  943.0  2395.1

Flyaway U/C

Weapon System Proc U/C

0.4  0.6  0.6  0.7  0.7  0.7  0.7  0.7  0.8  0.6

Description:
The HYDRA-70 family of rockets is used by Army aircraft (AH-64A/D Apache, OH-58D Kiowa Warrior, Armed Reconnaissance Helicopter, and Special Operations aircraft) to perform a number of roles including anti-materiel, anti-personnel, and air-to-ground suppression. The M274 warhead is a smoke/flash signature practice warhead used for pilot/gunner training missions and consists of a cast iron warhead modified with vent holes, an aluminum nose cap with firing pin, a M423 fuze safe and arming device, and a smoke/flash cartridge. The M274, with the MK66 Mod 4 rocket motor and electromagnetic radiation protection, can be fired by all aircraft. This item is Code A, approved for service use.

Justification:
This is a training unique item not used in combat. FY 2007 procurement supports annual training and builds a depot level in accordance with the Army's procurement goals.

TYPE CLASSIFICATION DATE: 1986

FY 2005 includes supplemental funding of $12.941 million to support the global war on terrorism.
### Exhibit P-5, Weapon AMMO Cost Analysis

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

**P-I Line Item Nomenclature:**
ROCKET HYDRA 70 SIG PRAC M274 (E37337)

**Weapon System Type:**

**Date:**
February 2006

#### AMMO Cost Elements

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

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#### WBS Cost Elements:
- Contractor and Location
- Complete Round

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### REMARKS:

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E37300 (E37337)  
ROCKET HYDRA 70 SIG PRAC M274

Item No. 26 Page 26 of 31

Exhibit P-5a
Budget Procurement History and Planning
### FY 05 / 06 BUDGET PRODUCTION SCHEDULE

**P-1 ITEM NOMENCLATURE**  
ROCKET HYDRA 70 SIG PRAC M274 (E37337)  
Date: February 2006

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**Fiscal Year 06**

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**ADMIN LEAD TIME**  
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**REMARKS**  
FY 05 buy was extended beyond Oct 07 due to FY 05 supplemental award of $12.941 million with a Nov 07 and Dec 07 delivery.

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**COST ELEMENTS**

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**ADMIN LEAD TIME**  
**MFR**

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**REMARKS**  
FY 05 buy was extended beyond Oct 07 due to FY 05 supplemental award of $12.941 million with a Nov 07 and Dec 07 delivery.
## FY 07 / 08 BUDGET PRODUCTION SCHEDULE

**P-1 ITEM NOMENCLATURE**
ROCKET HYDRA 70 SIG PRAC M274 (E37337)

**Exhibit P-21**

### Date:
February 2006

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**ROCKET HYDRA 70 SIG PRAC M274 (E37337)**

**Date:** February 2006

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#### Production Schedule

- **ROCKET HYDRA 70 SIG PRAC M274 (E37337)**
- **E37300 (E37337)**

**P-1 ITEM NOMENCLATURE**

**Date:** February 2006

**Production Schedule**

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## FY 11 / 12 BUDGET PRODUCTION SCHEDULE

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ROCKET HYDRA 70 SIG PRAC M274 (E37337)

| Date: | February 2006 |

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E37300 (E37337)
ROCKET HYDRA 70 SIG PRAC M274

Item No. 26 Page 30 of 31

Exhibit P-21
Production Schedule
**ROCKET HYDRA 70 SIG PRAC M274 458 Production Schedule**

**FY 13 / 14 BUDGET PRODUCTION SCHEDULE**

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| Date: February 2006 |

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**ITEM NOMENCLATURE**

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**Item No. 26 Page 31 of 31**

**Production Schedule**

E37300 (E37337)

ROCKET HYDRA 70 SIG PRAC M274

Exhibit P-21
### Exhibit P-40, Budget Item Justification Sheet

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

**P-1 Item Nomenclature**

DEMOLITION MUNITIONS, ALL TYPES (E55400)

**Date:** February 2006

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**Description:**

This budget line includes Demolition Munitions, All Types.

FY 2005 and FY2006 includes supplemental funding of $6.02 million and $2.9 million, respectively, to support the global war on terrorism.

FY 2006 funding includes an congressional increase of $8.2 million.
### Exhibit P-5, Weapon AMMO Cost Analysis

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

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Exhibit P-40, Budget Item Justification Sheet

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

P-1 Item Nomenclature
CHG DEMO BLK COMP C-4 1-1/4 LB M112 (E50601)

Program Elements for Code B Items:

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Description:
Composition C4 is the primary demolition explosive used by the U.S. Army. The M112 Demolition Block is used for general demolition and in particular for destruction of captured enemy ammunition. The block demolition charge consists of 1-1/4 pounds of composition C4 plastic explosive packed in a Mylar-film bag. Pressure sensitive adhesive tape is provided on one of the rectangular surfaces, allowing quick emplacement by the individual soldier on the object to be destroyed. The explosive may be cut and/or removed from its wrapper and hand molded into a desired shape suited to the target. Upon detonation, the shock wave destroys the target by cutting, breaching or cratering. This item is Code A, approved for service use.

Justification:
This is a training standard item used in both training and combat. FY 2007 procurement supports annual training, supports demilitarization requirements, and builds a war reserve inventory in accordance with the Army's procurement goals.

TYPE CLASSIFICATION DATE: Prior to 1960

FY 2005 includes supplemental funding of $2.52 million to support the global war on terrorism.
**Exhibit P-5, Weapon AMMO Cost Analysis**

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

**Weapon System Cost Analysis**

**P-1 Line Item Nomenclature:**
CHG DEMO BLK COMP C-4 1-1/4 LB M112 (E50601)

**Weapon System Type:**

**Date:**
February 2006

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

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#### LOAD, ASSEMBLE, PACK

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**REMARKS:**
## FY 06 / 07 BUDGET PRODUCTION SCHEDULE

### P-1 ITEM NOMENCLATURE
**CHG DEMO BLK COMP C-4 1-1/4 LB M112 (E50601)**

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**CHG DEMO BLK COMP C-4 1-1/4 LB M112**

Item No. 27 Page 6 of 12

Exhibit P-21

Production Schedule
## FY 08 / 09 BUDGET PRODUCTION SCHEDULE

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| CHG DEMO BLK COMP C-4 1-1/4 LB M112 (E50601) | | | |
| Date: | February 2006 | | |

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</table>
### Exhibit P-40, Budget Item Justification Sheet

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

**P-1 Item Nomenclature**
CUTTER CTG ACTUATED 2 SEC DELAY M21 (E60200)

<table>
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<tr>
<th>Program Elements for Code B Items:</th>
<th>Code: A</th>
<th>Other Related Program Elements:</th>
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<tr>
<td>Proc Qty</td>
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<tr>
<td>Prior Years</td>
<td>FY 2005</td>
<td>FY 2006</td>
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<td></td>
<td>213</td>
<td>16</td>
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<td>Gross Cost</td>
<td>13.2</td>
<td>5.5</td>
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<td>Less PY Adv Proc</td>
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<td>Plus CY Adv Proc</td>
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<td>Net Proc P1</td>
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<td>5.5</td>
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<td>Flyaway U/C</td>
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<tr>
<td>Weapon System Proc U/C</td>
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**Description:**
The M21 Cutter is a cartridge actuated device that is used in aerial delivery systems for cargo. It severs a reefing line which allows a parachute to fully deploy. The cutter is installed in a mounting bracket which is attached to the parachute. Major components consist of a case, firing pin assembly, lanyard, knife assembly, delay assembly, and cotter pin. This item is Code A, approved for service use.

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

**TYPE CLASSIFICATION DATE:** 1980

FY 2005 includes supplemental funding of $3 million to support the global war on terrorism.
### Exhibit P-5, Weapon AMMO Cost Analysis

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

P-1 Line Item Nomenclature: CUTTER CTG ACTUATED 2 SEC DELAY M21 (E60200)

Weapon System Type: Cost Analysis

Date: February 2006

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<tr>
<th>AMMO Cost Elements</th>
<th>ID/CD</th>
<th>FY 05</th>
<th>FY 06</th>
<th>FY 07</th>
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<td></td>
<td>Total Cost</td>
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<td>Unit Cost</td>
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<td><strong>HARDWARE</strong></td>
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<td>$312</td>
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<td><strong>NON-RECURRING COSTS</strong></td>
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<td>PROGRAM SUPPORT</td>
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# Exhibit P-5a, Budget Procurement History and Planning

**Date:** February 2006

| Appropriation/Budget Activity/Serial No: |
| Procurement of Ammunition, Army/1/ Ammunition |
| Weapon System Type: |
| CUTTER CTG ACTUATED 2 SEC DELAY M21 (E60200) |

| P-I Line Item Nomenclature: |
| E55400 (E60200) |
| CUTTER CTG ACTUATED 2 SEC DELAY M21 |

## WBS Cost Elements:

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<th>Contract Method and Type</th>
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<th>Award Date</th>
<th>Date of First Delivery</th>
<th>QTY x1000</th>
<th>Unit Cost $</th>
<th>Specs Avail Now?</th>
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**REMARKS:**
## FY 06 / 07 BUDGET PRODUCTION SCHEDULE

### P-1 ITEM NOMENCLATURE
- CUTTER CTG ACTUATED 2 SEC DELAY M21 (E60200)

### Date:
- February 2006

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### MFR

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### NAVY SURFACE WARFARE CENTER, INDIAN HEAD, MD

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<tr>
<th>Name - Location</th>
<th>PRODUCTION RATES</th>
<th>Reached</th>
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<td>1 Initial</td>
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## FY 08 / 09 BUDGET PRODUCTION SCHEDULE

### P-1 ITEM NOMENCLATURE
- CUTTER CTG ACTUATED 2 SEC DELAY M21 (E60200)

### Production Schedule

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#### Fiscal Year 09

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### Cost Elements

### Production Rates

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<th>REMARKS</th>
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### Exhibit P-40, Budget Item Justification Sheet

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

**P-1 Item Nomenclature**
GRENADES, ALL TYPES (E34000)

**Date:** February 2006

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**Description:**
This budget line includes Grenades, All Types.

FY 2005 includes supplemental funding of $4.119 million to support the global war on terrorism.
## Exhibit P-5, Weapon AMMO Cost Analysis

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

**P-I Line Item Nomenclature:**
GRENADES, ALL TYPES (E34000)

**Weapon System Type:**

**Date:**
February 2006

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## Exhibit P-40, Budget Item Justification Sheet

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

**P-1 Item Nomenclature**
FUZE GRENADE HAND PRAC M228 (E31900)

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**Description:**
The M228 Fuze is used with the M69 practice hand grenade. The individual soldier uses it to simulate the M67 Fragmentation Grenade. It is a pyrotechnic, delay-igniting fuze that is placed by the soldier into the reusable grenade body. This item is Code A, approved for service use.

**Justification:**
This is a training unique item; not used in combat. FY 2007 procurement supports annual training and builds a depot level in accordance with the Army's procurement goals.

**TYPE CLASSIFICATION DATE:** 1971
### Exhibit P-5, Weapon AMMO Cost Analysis

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

**P-1 Line Item Nomenclature:**
- FUZE GRENADE HAND PRAC M228 (E31900)

**Weapon System Type:**

**Date:**
- February 2006

#### AMMO Cost Elements

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

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**Remarks:** Acquisition strategy for the Army is a 60/40 split award with one award going to small business.
## FY 06 / 07 BUDGET PRODUCTION SCHEDULE

**P-1 ITEM NOMENCLATURE**
FUZE GRENADE HAND PRAC M228 (E31900)

**Date:** February 2006

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**FUZE GRENADE HAND PRAC M228**

Item No. 28 Page 6 of 21
476
Exhibit P-21
Production Schedule
## FY 06 / 07 BUDGET PRODUCTION SCHEDULE

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### Remarks

- MARTIN ELECTRONICS INC, PERRY FL: Initial
- ALLIANT TECHSYSTEMS, ROCKET CENTER WV: Initial

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**E34000 (E31900)**  
FUZE GRENADE HAND PRAC M228  
Production Schedule
### FY 08 / 09 BUDGET PRODUCTION SCHEDULE

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#### P-1 ITEM NOMENCLATURE

**FUZE GRENADE HAND PRAC M228 (E31900)**

**Production Schedule**

**Date:** February 2006

### FY 08 / 09 BUDGET PRODUCTION SCHEDULE

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#### Summary

- **MFR** represents the manufacture location.
- **Production Rates** include MIN, 1-8-5, and MAX production rates.
- **Reached** indicates the production volumes reached.
- **ADMIN LEAD TIME** includes Prior 1 Oct and After 1 Oct.
- **MFR** represents the lead time for production.
- **Total** production is calculated after 1 Oct.
- **Remarks** provide additional notes for the production schedule.

---

**E34000 (E31900)**

**FUZE GRENADE HAND PRAC M228**

**Production Schedule**

Item No. 28 Page 8 of 21

---

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Exhibit P-21
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## FY 10 / 11 Budget Production Schedule

### P-1 Item Nomenclature
**FUZE GRENADE HAND PRAC M228 (E31900)**

#### Date:
February 2006

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**Note:** The table continues with similar entries for other dates and quantities.
### FY 10 / 11 BUDGET PRODUCTION SCHEDULE

#### P-1 ITEM NOMENCLATURE
**FUZE GRENADE HAND PRAC M228 (E31900)**

**Date:** February 2006

#### COST ELEMENTS

| MFR | FY   | R  | S | E | QTY | PROC | ACCEP | BAL | PRIOR | AS | DUE | O  | C  | D | E | N | T | N | D | E | C | O | V |
|-----|------|----|---|---|-----|------|-------|-----|-------|----|-----|----|----|---|---|---|---|----|---|----|---|----|---|----|---|
|     |      |    |   |   |     |       |       |     |       |    |     |    |    |   |   |   |   |    |   |    |   |    |   |    |   |
| F   | Y   | R  | S | E | QTY | PROC | ACCEP | BAL | PRIOR | AS | DUE | O  | C  | D | E | N | T | N | D | E | C | O | V |
|     | F   | Y | R | S | E | QTY | PROC | ACCEP | BAL | PRIOR | AS | DUE | O  | C  | D | E | N | T | N | D | E | C | O | V |
|     | FY 06 | SOF | 20 | 20 |     |       |       |     |       |    |     |    |    |   |   |   |   |    |   |    |   |    |   |    |   |
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**REMARKS**

| MFR | FY   | R  | S | E | QTY | PROC | ACCEP | BAL | PRIOR | AS | DUE | O  | C  | D | E | N | T | N | D | E | C | O | V |
|-----|------|----|---|---|-----|------|-------|-----|-------|----|-----|----|----|---|---|---|---|----|---|----|---|----|---|----|---|
|     |      |    |   |   |     |       |       |     |       |    |     |    |    |   |   |   |   |    |   |    |   |    |   |    |   |
| F   | Y   | R  | S | E | QTY | PROC | ACCEP | BAL | PRIOR | AS | DUE | O  | C  | D | E | N | T | N | D | E | C | O | V |
|     | F   | Y | R | S | E | QTY | PROC | ACCEP | BAL | PRIOR | AS | DUE | O  | C  | D | E | N | T | N | D | E | C | O | V |
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**Exhibit P-40, Budget Item Justification Sheet**

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<td>Procurement of Ammunition, Army / 1 / Ammunition</td>
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<td>P-1 Item Nomenclature</td>
<td>GRENADE HAND FRAG DELAY M67 (E32000)</td>
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**Program Elements for Code B Items:**

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<th>Description</th>
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Less PY Adv Proc

Plus CY Adv Proc

Net Proc P1

Initial Spares

Total Proc Cost

Initial Spares

Flyaway U/C

Weapon System Proc U/C

**Description:**
The M67 Hand Grenade is used in close combat situations by dismounted soldiers who throw the grenade at the enemy. The grenade body is a 2.5-inch diameter steel sphere that is designed to burst into numerous fragments when detonated. The grenade body contains 5.4 ounces of high explosive, Composition B. Each grenade is fitted with an M213 fuze that initiates the explosive charge four to five seconds after release of safety lever. This item is Code A, approved for service use.

**Justification:**
This is a training standard item used in both training and combat. FY 2007 procurement supports annual training and builds a war reserve inventory in accordance with the Army's procurement goals.

**TYPE CLASSIFICATION DATE:** 1971

FY 2005 includes supplemental funding of $1.9 million to support the global war on terrorism.
### Exhibit P-5, Weapon AMMO Cost Analysis

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

**P-1 Line Item Nomenclature:** GRENADE HAND FRAG DELAY M67 (E32000)

**Weapon System Type:**

**Date:** February 2006

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

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

**Weapon System Type:**
- GRENADE HAND FRAG DELAY M67 (E32000)

**P/I Line Item Nomenclature:**
- COMPLETE GRENADE

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***COMP B TYPE 1 GRADE A**

| FY 2005           | STOCK ISSUE             | N/A                     | N/A             | N/A        | N/A                    | 5        | 0        |                 |                 |                |
| FY 2006           | STOCK ISSUE             | N/A                     | N/A             | N/A        | N/A                    | 159      | 0        |                 |                 |                |
| FY 2007           | STOCK ISSUE             | N/A                     | N/A             | N/A        | N/A                    | 164      | 0        |                 |                 |                |

**REMARKS:** *GOVERNMENT FURNISHED MATERIAL*

FY06/07 BUYS WILL BE A COMPETITIVE FIXED PRICE OPTION TO THE FY05 CONTRACT.
## FY 06 / 07 BUDGET PRODUCTION SCHEDULE

### P-1 ITEM NOMENCLATURE
**GRENADE HAND FRAG DELAY M67 (E32000)**

**Date:** February 2006

### Fiscal Year 06

|    |   |   |     |   |     |          |      |       |         |     |           |            |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |

#### COMPLETE GRENADE

1. FY 05 P  A  423  0  423  60  80  120  120  43
2. FY 05  A  12  0  12  A  
3. FY 06  A  354  0  354  A  
4. FY 07  A  365  0  365  A  
5. FY 06  AF  2  0  2  A  
6. FY 07  AF  10  0  10  A  
7. FY 07  MC  77  0  77  A  
8. Total  1243  1243  60  80  120  120  43  14  50  50  706

### Fiscal Year 07

| M  | F | R | FY | S | E  | QTY x1000 | PROC | ACCEP | BAL DUE | QTY | PRIOR DUE | 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 | U | U | U | P | Later |
|    |   |   |     |   |     |          |      |       |         |     |           |            |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |

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E34000 (E32000)
GRENADE HAND FRAG DELAY M67
Item No. 28 Page 15 of 21
Exhibit P-21
Production Schedule
## FY 08 / 09 Budget Production Schedule

### P-1 Item Nomenclature
**GRENADE HAND FRAG DELAY M67 (E32000)**

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**Total Production Schedule**

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

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

**P-1 Item Nomenclature**
GRENADE HAND SMOKE TNG M83 (E69300)

**Program Elements for Code B Items:**

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**Description:**
The M83 is the trainer for the M8 Smoke Screening grenade. This smoke hand grenade contains approximately one pound of environmentally acceptable smoke mixture. The smoke mixture is initiated by a pyrotechnic delay-igniting fuze. After initiation, there is a 3-second delay before a dense smoke cloud of white smoke is produced to screen activities of small units. It can be used for ground-to-air signaling. The M83 training grenade is deployed in a similar manner as the series of service smoke grenades. The individual soldier in squad, company, and battalion units uses it. This item is Code A, approved for service use.

**Justification:**
This is a training unique item; not used in combat. FY 2007 procurement supports annual training and builds a depot level in accordance with the Army's procurement goals. This item is urgently required to replace the existing M8 hexachloroethane (HC) filled munition.

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P-1 Line Item Nomenclature: GRENADE HAND SMOKE TNG M83 (E69300)
## Exhibit P-5a, Budget Procurement History and Planning

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

**Weapon System Type:**
- GRENADE HAND SMOKE TNG M83 (E69300)

**P-1 Line Item Nomenclature:**
- GRENADE HAND SMOKE TNG M83 (E69300)

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**FY 2006**
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  - Award Date: MAR-06
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  - Unit Cost $: 38.59
  - Specs Avail Now?: Y

**FY 2007**
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- PINE BLUF, AR
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  - Award Date: MAR-07
  - Date of First Delivery: APR-08
  - QTY x1000: 137
  - Unit Cost $: 38.92
  - Specs Avail Now?: Y

### REMARKS:
## FY 06 / 07 BUDGET PRODUCTION SCHEDULE

### P-1 ITEM NOMENCLATURE
- GRENADE HAND SMOKE TNG M83 (E69300)

### Date:
- February 2006

#### Fiscal Year 06

|    |   |   |    |    |   | x1000 |      |       |     |     | C | O | E | N | B | R | Y | N | L | G | P | T | V | C | N | B | R | Y | N | L | G | P |

### Fiscal Year 07

|    |   |   |    |    |   | x1000 |      |       |     |     | C | O | E | N | B | R | Y | N | L | G | P | T | V | C | N | B | R | Y | N | L | G | P |

### COST ELEMENTS

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## FY 08 / 09 BUDGET PRODUCTION SCHEDULE

**P-1 ITEM NOMENCLATURE**  
GRENADE HAND SMOKE TNG M83 (E69300)  

**Date:** February 2006

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The budget line includes Signals, All Types.

### Justification:
FY2005 and FY 2006 include supplemental funding of $17.365 million and $116.0 million, respectively to support the global war on terrorism.
### Exhibit P-5, Weapon AMMO Cost Analysis

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

**P-1 Line Item Nomenclature:**
SIGNALS, ALL TYPES (E46900)

**Weapon System Type:**

**Date:**
February 2006

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E46900
SIGNALS, ALL TYPES

Item No. 29 Page 2 of 17
493
Exhibit P-5

Weapon System Cost Analysis
FLARE A/C COUNTERMEASURES M206

**Description:**
The M206 Infrared Countermeasure Flare is dispensed from aircraft in combination with M211 and M212 Infrared Countermeasures flares to decoy heat-seeking missiles. It is used with ALE-47 dispensers on cargo planes and helicopters. This item is code A, approved for service use.

**Justification:**
This is a training standard item used in both training and combat. FY07 funds engineering in support of production.

**TYPE CLASSIFICATION:**1978 - Standard

FY 2005 and FY 2006 include supplemental funding of $2 million and $10 million, respectively, to support the global war on terrorism.
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REMARKS: This procurement represents an urgent requirement by the Army. The Army awarded noncompetitive modifications to existing Air Force contracts. These modifications may have a different unit price than the existing contract options. Air Force FY 2004 is base year. There were split awards. FY05 is an option year. Army FY 2005 & FY 2006 buys are modifications to USAF contract. FY 2006 will be new competitive contract.
## FY 06 / 07 BUDGET PRODUCTION SCHEDULE

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### Production Schedule

| Date: February 2006 |

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## FY 08 / 09 BUDGET PRODUCTION SCHEDULE

Date: February 2006

### FLARE A/C COUNTERMEASURES M206 (E49100)

### M206 Production Schedule

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E49100 (E49100)

Item No. 29 Page 7 of 17
Exhibit P-21
Production Schedule
### Exhibit P-40, Budget Item Justification Sheet

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

**P-1 Item Nomenclature**
FLARE, AIRCRAFT, COUNTERMEASURE, M212 (E88800)

**Program Elements for Code B Items:**

| Code: | A | Other Related Program Elements: |

#### Prior Years

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#### Description:
The M212 Aircraft Countermeasure Flare is dispensed from aircraft in combination with M206 and M211 Infrared Countermeasure flares, to decoy heat-seeking missiles. It is used with ALE-47 dispensers on cargo planes and helicopters. This item is code A, approved for service use.

#### Justification:
This is a training standard item used in both training and combat. FY 2007 procurement supports annual training and builds a war reserve inventory in accordance with the Army's procurement goals.

**TYPE CLASSIFICATION:** November 2002 - Standard

FY 2005 and 2006 includes supplemental funding of $9.5 million and $56 million, respectively, to support the global war on terrorism.
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REMARKS: FY06 will be awarded as an urgent need modification to the current producer.
## FY 06 / 07 BUDGET PRODUCTION SCHEDULE

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**P-1 ITEM NOMENCLATURE**
FLARE, AIRCRAFT, COUNTERMEASURE, M212 (E88800)

**Date:** February 2006

### Production Schedule

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**FLARE, AIRCRAFT, COUNTERMEASURE, M212**

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### Production Schedule

**Complete Flare**

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**Fiscal Year 06**

**Calendar Year 06**

**Fiscal Year 07**

**Calendar Year 07**

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**PRODUCTION RATES**

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**REMARKS**

In response to Army's urgent requirement, the contractor is accelerating deliveries for FY 2006. Normal lead times do not apply.
## FY 08 / 09 BUDGET PRODUCTION SCHEDULE

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<td>Calendar Year 08</td>
<td>Calendar Year 09</td>
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### COST ELEMENTS

<table>
<thead>
<tr>
<th>M F R</th>
<th>S E</th>
<th>QTY</th>
<th>PROCE</th>
<th>ACCEP</th>
<th>BAL</th>
<th>DUE</th>
<th>Fiscal Year 08</th>
<th>Fiscal Year 09</th>
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**Complete Flare**

1. FY 05 P A 111 111
2. FY 07 A 37 0 37

**Total** 733 667 66

**ADMIN LEAD TIME**

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<tr>
<th>M F R</th>
<th>Name - Location</th>
<th>MIN</th>
<th>1-8-5</th>
<th>MAX</th>
<th>D+</th>
<th>MFR</th>
<th>ADMIN LEAD TIME</th>
<th>MFR</th>
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<th>REMARKS</th>
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<tr>
<td></td>
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<td></td>
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<td>Prior 1 Oct</td>
<td>After 1 Oct</td>
<td>After 1 Oct</td>
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<tr>
<td>1</td>
<td>ATK Thiokol, Brigham, UT</td>
<td>5 35 66</td>
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<td>5 7</td>
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<td>2</td>
<td>To Be Selected</td>
<td>5 5 12</td>
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<td>Initial</td>
<td>5 7</td>
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### Production Rates

- Reached: Initial, Reorder
- MFR: Initial, Reorder
- Admin Lead Time: Prior 1 Oct, After 1 Oct
- Total: After 1 Oct

**Remarks**

It is noted that FY05 deliveries will start at the completion of the FY04 bridge supplemental buy.
### Exhibit P-40, Budget Item Justification Sheet

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

**P-1 Item Nomenclature**
FLARE, INFRARED, COUNTERMEASURE, M211 (E88900)

#### Program Elements for Code B Items:

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**Description:**
The M211 Infrared Countermeasure Flare is dispensed from aircraft in combination with M206 and M212 Infrared Countermeasures flares to decoy heat-seeking missiles. It is used with ALE-47 dispensers on cargo planes and helicopters. This item is code A, approved for service use.

**Justification:**
This is a training standard item used in both training and combat. FY 2007 procurements supports annual training and builds a war reserve inventory in accordance with the Army's procurement goals.

**TYPE CLASSIFICATION:** November 2002 - Standard

FY05 and FY06 include supplemental funding of $5 million and $50 million, respectively, to support the global war on terrorism.
## Exhibit P-5, Weapon AMMO Cost Analysis

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

**P-1 Line Item Nomenclature:**
FLARE, INFRARED, COUNTERMEASURE, M211 (E88900)

**Weapon System Type:**

**Date:** February 2006

### AMMO Cost Elements

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<th>FY 05 Qty</th>
<th>FY 05 Unit Cost</th>
<th>FY 06 Total Cost</th>
<th>FY 06 Qty</th>
<th>FY 06 Unit Cost</th>
<th>FY 07 Total Cost</th>
<th>FY 07 Qty</th>
<th>FY 07 Unit Cost</th>
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**Exhibit P-5, Weapon AMMO Cost Analysis**

**Exhibit P-5**

**FLARE, INFRARED, COUNTERMEASURE, M211**

**Item No. 29**

**Page 14 of 17**

**Weapon System Cost Analysis**

---

E46900 (E88900)

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Exhibit P-5

505

Weapon System Cost Analysis
<table>
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<th>Location of PCO</th>
<th>Award Date</th>
<th>Date of First Delivery</th>
<th>QTY x1000</th>
<th>Unit Cost $</th>
<th>Specs Avail Now?</th>
<th>Date Revsn Avail</th>
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<td>DEC 05</td>
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<td>Picatinny, NJ</td>
<td>NOV 05</td>
<td>MAR 06</td>
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<td>SS/FP</td>
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<td>APR 08</td>
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REMARKS:
### FY 06 / 07 BUDGET PRODUCTION SCHEDULE

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<th>E</th>
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<th>ACCEP</th>
<th>BAL</th>
<th>DUE</th>
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<th>FLARE, INFRARED, COUNTERMEASURE, M211 507</th>
<th>Production Schedule</th>
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<tr>
<td>Complete Flare</td>
<td>Due to urgent operational need by the Army, flares originally for the Air Force are being delivered to the Army.</td>
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| Date: | February 2006 |

<table>
<thead>
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<th>Fiscal Year 06</th>
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<th>E</th>
<th>F</th>
<th>R</th>
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<th>ADMIN LEAD TIME</th>
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<th>REMARKS</th>
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<td>R</td>
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<td></td>
<td>Prior 1 Oct</td>
<td>After 1 Oct</td>
<td>After 1 Oct</td>
<td>After 1 Oct</td>
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<tr>
<td></td>
<td>Alloy Surfaces, Chester Twp., PA</td>
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## FY 08 / 09 Budget Production Schedule

**P:1 Item Nomenclature**  
FLARE, INFRARED, COUNTERMEASURE, M211 (E88900)

**Date:** February 2006

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<th>Proc R V x1000</th>
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<th>BAL DUE</th>
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<th>Fiscal Year 09</th>
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<td>Calendar Year 08</td>
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**COST ELEMENTS**

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**Productions Rates**

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<th>MFR After 1 Oct</th>
<th>MFR After 1 Oct</th>
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<th>REMARKS</th>
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**FLARE, INFRARED, COUNTERMEASURE, M211**

E46900 (E88900)

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508 Exhibit P-21

Production Schedule
### Exhibit P-40, Budget Item Justification Sheet

**Date:** February 2006

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

**P-1 Item Nomenclature**

SIMULATORS, ALL TYPES (E51200)

#### Program Elements for Code B Items:

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<th>FY 2007</th>
<th>FY 2008</th>
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**Description:**

This budget line includes Simulators, All Types. Simulators are pyrotechnic devices that produce sound and light similar to tactical munitions, used to enhance realism in training. This line includes Simulator Target Hit M25; Simulator Airburst M74A1; Simulator Groundburst M115; Simulator, Booby Trap Flash M117; Simulator, Booby Trap Illumination M118; Simulator, Booby Trap Whistling M119; Simulator, Hand Grenade M116; Simulator, Tank Main Gun M30; and Simulator, Direct/Indirect Fire CUE M31.

**Justification:**

FY 2006 includes supplemental funding of $2.0 million in support of the global war on terrorism.
### Exhibit P-5, Weapon AMMO Cost Analysis

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**Total** 10241 12276 10791

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**E51200**
SIMULATORS, ALL TYPES

**Simulator Type:** SIMULATORS, ALL TYPES (E51200)

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

**Date:** February 2006
<table>
<thead>
<tr>
<th>Program Elements for Code B Items:</th>
<th>Code:</th>
<th>Other Related Program Elements:</th>
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<td>Proc Qty</td>
<td></td>
<td></td>
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</tbody>
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### Prior Years FY 2005 FY 2006 FY 2007 FY 2008 FY 2009 FY 2010 FY 2011 To Complete Total Prog

| Gross Cost          | 633.0 | 5.5 | 8.7 | 3.4 | 9.4 | 8.5 | 15.3 | 15.6 | 699.3 |
| Less PY Adv Proc    |       |     |     |     |     |     |      |      |       |
| Net Proc P1         | 633.0 | 5.5 | 8.7 | 3.4 | 9.4 | 8.5 | 15.3 | 15.6 | 699.3 |
| Initial Spares      |       |     |     |     |     |     |      |      |       |
| Total Proc Cost     | 633.0 | 5.5 | 8.7 | 3.4 | 9.4 | 8.5 | 15.3 | 15.6 | 699.3 |
| Flyaway U/C         |       |     |     |     |     |     |      |      |       |
| Weapon System Proc U/C |   |     |     |     |     |     |      |      |       |

**Description:**
This budget line includes all Ammo Components/Support Items.
<table>
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<tr>
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<th>FY 06</th>
<th>FY 07</th>
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<td>Each</td>
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**Exhibit P-40, Budget Item Justification Sheet**

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

**P-1 Item Nomenclature**
COMPONENTS FOR RENOVATION OF FIELD STOCK (EA0500)

**Program Elements for Code B Items:**

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<th>Description</th>
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<td>4.7</td>
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<td>Less PY Adv Proc</td>
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<td>Plus CY Adv Proc</td>
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<td>4.7</td>
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<td>Flyaway U/C</td>
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<td></td>
</tr>
<tr>
<td>Weapon System Proc U/C</td>
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</table>

**Description:**
These components are used to support the renovation of ammunition items currently in the Army inventory. Items support worldwide ammunition requirements in order to maintain the inventory in a serviceable status ready for issue to the troops.

**Justification:**
The components are required to bring stocks that are no longer in an issuable condition back to an issuable condition. The alternative is to fill requirements with new procurement. It is much more cost effective to correct most stockpile deficiencies through renovation than through new procurement.

**Date:** February 2006
**Exhibit P-40, Budget Item Justification Sheet**

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

**P-1 Item Nomenclature**
Non-Lethal Ammunition, All Types (E91901)

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<tr>
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<tr>
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<tr>
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</tbody>
</table>

**Description:**
This budget line item procures Non-Lethal Ammunition, All Types.

**Justification:**
FY 2005 includes supplemental funding of $0.086 million to support the global war on terrorism.
### Exhibit P-5, Weapon AMMO Cost Analysis

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

**P-1 Line Item Nomenclature:** Non-Lethal Ammunition, All Types (E91901)

**Weapon System Type:** Non-Lethal Ammunition, All Types (E91901)

**Date:** February 2006

#### AMMO Cost Elements

<table>
<thead>
<tr>
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<th>FY 07</th>
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</thead>
<tbody>
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<td>Unit Cost</td>
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<tr>
<td></td>
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<td>$000 x1000</td>
<td>$</td>
<td>$000 x1000</td>
</tr>
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<td>436000</td>
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**E91901**
Non-Lethal Ammunition, All Types

Item No. 32 Page 2 of 7

Exhibit P-5

Weapon System Cost Analysis
**Exhibit P-40, Budget Item Justification Sheet**

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

**P-1 Item Nomenclature**
NON LETHAL CAPABILITIES SET (E91800)

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<tr>
<td>Weapon System Proc U/C</td>
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</tbody>
</table>

**Description:**
The Non-Lethal Capabilities Set (NLCS) is used by soldiers in peacekeeping, civil disturbances, and other operations other than war, to provide the friendly force a non-lethal means to temporarily distract/disorient non-combatants. The set includes Soldier Protection Items, non-lethal munitions, training items and other items. Earlier sets were configured for a battalion (200 soldiers). The current set is designed to equip a platoon (30 soldiers).

**Justification:**
This is a training standard item used in both training and combat. The FY 2007 procurement supports annual training and builds a war reserve in accordance with the Army's procurement goals.

**TYPE CLASSIFICATION:** All non-lethal munitions of the NLCS are type classified as separate systems.

**PLATOON SET CONFIGURATION TYPE CLASSIFICATION:** 3QFY06

Full Material Release 4Q06.
<table>
<thead>
<tr>
<th>AMMO Cost Elements</th>
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<th>FY 06</th>
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<tbody>
<tr>
<td></td>
<td>CD</td>
<td>Total Cost</td>
<td>Qty</td>
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</tr>
<tr>
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<td>$000</td>
<td>Sets</td>
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<tr>
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## Exhibit P-5a, Budget Procurement History and Planning

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<tr>
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<td>NON LETHAL CAPABILITIES SET (E91800)</td>
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<th>Date of First Delivery</th>
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### Set Assembly and Pack

- **FY 2006**
  - Crane AAA
  - Crane IN
- **FY 2007**
  - Crane AAA
  - Crane IN

### Soldier Protective Equipment

- **FY 2006**
  - Aardvark
  - Anzus CA
- **FY 2007**
  - Aardvark
  - Anzus CA

**REMARKS:** In FY07, a new mobility denial system and TASER antipersonnel systems will be added to the NLCS, increasing the set price.
## FY 06 / 07 Budget Production Schedule

**P-1 Item Nomenclature**  
Non Lethal Capabilities Set (E91800)

**Date:** February 2006

### Fiscal Year 06

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**Total:** 54

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**Total:** 54

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**Total:** 54

**Other Details:**

- **Cost Elements:**
  - Later
  - Set Assembly and Pack
  - Total: 54
### FY 08 / 09 BUDGET PRODUCTION SCHEDULE

#### P-1 ITEM NOMENCLATURE
- NON LETHAL CAPABILITIES SET (E91800)

#### Date:
- February 2006

#### COST ELEMENTS

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<th>F</th>
<th>R</th>
<th>FY</th>
<th>E</th>
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**Set Assembly and Pack**

1. **FY 06**: A, 17, 17, 0, 0
2. **FY 07**: A, 37, 0, 37, 5, 5, 5, 5, 5, 5, 2, 0, 0

**Total**: 54, 17, 37, 5, 5, 5, 5, 5, 5, 5, 2

**ADMIN LEAD TIME**

- Prior 1 Oct: 7
- After 1 Oct: 7
- After 1 Oct: 22

**MFR**

- Initial: 7
- Reorder: 6

**REMARKS**

- Initial
- Reorder

---

**MFR**

- Name - Location: Crane AAA, Crane IN
- MIN: 1
- MAX: 5
- D+: 10
- **Reached**: 1
- **ADMIN LEAD TIME**
  - Prior 1 Oct: 7
  - After 1 Oct: 7
  - After 1 Oct: 15
- **TOTAL**
  - After 1 Oct: 22
- **REMARKS**
  - Initial
  - Reorder
### Description:
Cartridge Actuated Devices (CAD) and Propellant Actuated Devices (PAD) are used in various escape and jettison systems on all types of Army aircraft.

### Justification:
Required to support aircraft escape, safety, and jettison systems and mission essential needs. Items are subject to shelf and service life restrictions and, therefore, require replacement at specified intervals. FY 2007 program is required to assure availability of replacement items when needed and avoid grounding aircraft or rendering aircraft partially mission capable.

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<th>Description:</th>
<th>Justification:</th>
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<tbody>
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<td>Cartridge Actuated Devices (CAD) and Propellant Actuated Devices (PAD) are used in various escape and jettison systems on all types of Army aircraft.</td>
<td>Required to support aircraft escape, safety, and jettison systems and mission essential needs. Items are subject to shelf and service life restrictions and, therefore, require replacement at specified intervals. FY 2007 program is required to assure availability of replacement items when needed and avoid grounding aircraft or rendering aircraft partially mission capable.</td>
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</table>
### Exhibit P-40, Budget Item Justification Sheet

**Date:** February 2006

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

**P-1 Item Nomenclature**
- ITEMS LESS THAN $5 MILLION (EA0055)

**Program Elements for Code B Items:**

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<th>Description</th>
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<th>FY 2006</th>
<th>FY 2007</th>
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**Description:**

This budget line includes Miscellaneous Ammunition Items Under $5 million.
# Exhibit P-5, Weapon AMMO Cost Analysis

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

**Weapon System Type:** Ammunition

**Weapon System Nomenclature:** ITEMS LESS THAN $5 MILLION (EA0055)

**Date:** February 2006

## AMMO Cost Elements

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</table>

### Description:

Ammunition Peculiar Equipment (APE) is unique, low-density equipment items specifically designed, fabricated, tested, procured, and adopted for use in ammunition depot operations in conventional ammunition. These depot operations involve maintenance, demilitarization, preservation, packaging, and surveillance functions on the ammunition item. As the National Inventory Control Point, the US Army Joint Munitions Command designs, fabricates, maintains and stores APE, which is not available from commercial sources, to support US military worldwide ammunition operations. This equipment is different from production line plant equipment as it disassembles ammunition items into components, usually for the removal of a hazardous component. APE is also designed to perform cleaning and renovation functions on ammunition subjected to deterioration effects (rust, corrosion, weathering, etc) during its storage life. APE supporting surveillance is keyed to stockpile sampling and function tests of the items to assure readiness for combat or training. Demilitarization APE is similar somewhat to maintenance APE but must go further in disassembly to destroy hazardous components and reclaim salvageable parts or metals. APE is designed, developed, and fielded to support ammunition field service stocks that are currently on hand in the inventory control point and is used to restore these stocks to an issuance/serviceable condition. The new US/Republic of Korea Demilitarization Facility (DEFAC), to be built in Korea, will contain several standard APE items, along with new technology systems with the potential to become future standard APE equipment. The equipment installation will commence during FY 2006.

### Justification:

The APE and replacement parts must be on-hand to perform any of the ammunition depot operations for conventional ammunition. The ammunition depot operations cannot be accomplished if the required APE is not supplied in a timely manner. The equipment is loaned to worldwide locations for the accomplishment of depot-type operations based on the ammunition requirements. APE is required to support the Integrated Conventional Ammunition Maintenance Plan (ICAMP); the surveillance program; equipment for worldwide maintenance and demilitarization; prepositioned ships; and Government-Owned, Contractor-Operated plants as Government Furnished Equipment (GFE) for ammunition depot operations at those locations. APE equipment items maintain and verify the quality of the ammunition stockpile, thereby saving the cost of purchasing new replacement ammunition. Should ammunition need to be demilitarized, APE equipment efficiently performs this mission with an increased eye towards recycling, re-utilization and preserving the environment. The DEFAC will save retrograde transportation costs and also provide TNT to be re-utilized in new ammunition in the US. The DEFAC APE is required by an international memorandum of agreement signed 4 Sep 2003.
**Exhibit P-40, Budget Item Justification Sheet**

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

**P-1 Item Nomenclature:**
FIRST DESTINATION TRANSPORTATION (AMMO) (EA0550)

**Date:**
February 2006

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**Description:**
Transportation funds are required to support the distribution of Army ammunition end items from manufacturing plants or assembly points, e.g., Army Ammunition Plants (AAPs); Defense Contract Management Centers; or Procedure A and B Contractors to a CONUS depot, customer, or other point of first acceptance into the Army Supply System or to a Port of Embarkation destined for OCONUS customers. These funds directly support training and readiness requirements of soldiers in the field (CONUS and OCONUS) to include major OCONUS programs such as Preposition War Reserves (PPWR) for Europe and Pacific Theaters, training for Europe and Pacific Theaters, War Reserve Allies (WRSA) for Korea/Thailand and Southwest Asia Sustainment Requirements for Operation Enduring Freedom.
### Exhibit P-40, Budget Item Justification Sheet

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

**P-1 Item Nomenclature**
CLOSEOUT LIABILITIES (EA8500)

**Date:** February 2006

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**Description:**
Funding will pay the contract termination cost and operational losses to ensure the solvency of the Conventional Ammunition Working Capital Fund (CAWCF) as the fund closes out and as a result of contract competitions.

**Justification:**
Funding is required to pay contract termination cost, e.g., unfunded pension liabilities, severance pay, and inventory at ammunition plants, and other claims approved by the Army Contract Review Board (ACRB).
### Program Elements for Code B Items:

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### Description:

This budget line includes Provision of Industrial Facilities.

 Fiscal Year 2005 and Fiscal Year 2006 include supplemental funding of $57.8 million and $15.0 million, respectively, to support the global war on terrorism.

 FY 2006 funding includes a Congressional increase of $6.59 million.

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<td>161.3</td>
<td>54.6</td>
<td>116.2</td>
<td>80.6</td>
<td>82.7</td>
<td>36.5</td>
<td>37.6</td>
<td>5687.3</td>
</tr>
<tr>
<td>Flyaway U/C</td>
<td></td>
<td></td>
<td></td>
<td></td>
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<td></td>
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<tr>
<td>Weapon System Proc U/C</td>
<td></td>
<td></td>
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</table>
**Exhibit P-40, Budget Item Justification Sheet**

<table>
<thead>
<tr>
<th>Appropriation / Budget Activity / Serial No:</th>
<th>Procurement of Ammunition, Army / 2 / Ammunition production base support</th>
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<tbody>
<tr>
<td>P-1 Item Nomenclature</td>
<td>INDUSTRIAL FACILITIES (EP1200)</td>
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**Program Elements for Code B Items:**

<table>
<thead>
<tr>
<th>Code:</th>
<th>Other Related Program Elements:</th>
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<tbody>
<tr>
<td>Proc Qty</td>
<td></td>
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<tr>
<td></td>
<td>4065.4</td>
</tr>
<tr>
<td>Less PY Adv Proc</td>
<td></td>
</tr>
<tr>
<td>Plus CY Adv Proc</td>
<td></td>
</tr>
<tr>
<td></td>
<td>4065.4</td>
</tr>
<tr>
<td>Initial Spares</td>
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<tr>
<td></td>
<td>4065.4</td>
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<tr>
<td>Flyaway U/C</td>
<td></td>
</tr>
<tr>
<td>Weapon System Proc U/C</td>
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</tr>
</tbody>
</table>

**Description:**

This budget line includes funding for correction of environmental deficiencies at existing facilities and replacement, upgrade and modernization of obsolete or worn production equipment and/or plant infrastructure.

**Justification:**

Fiscal Year 2007 procurement supports the establishment, augmentation, and improvement of production capability for ammunition programs. The necessary Industrial Facilities efforts include modernization of key electrical systems, production control, computer systems and plant infrastructure. Industrial Facilities funds also support the correction of environmental problems which, if left uncorrected, would result in costly fines, penalties, and potential plant closure.

Fiscal Year 2005 and Fiscal Year 2006 include supplemental funding of $57.8 million and $15.0 million, respectively, to support the global war on terrorism.

FY 2006 funding includes a Congressional increase of $6.59 million.
<table>
<thead>
<tr>
<th>Location</th>
<th>Project Title</th>
<th>Project</th>
<th>FY 2005</th>
<th>FY 2006</th>
<th>FY 2007</th>
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<tbody>
<tr>
<td>Holston Army Ammunition Plant</td>
<td>Insensitive Munitions Production</td>
<td>5053122</td>
<td>1494</td>
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<tr>
<td>Holston Army Ammunition Plant</td>
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<td>1890</td>
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<td>Holston Army Ammunition Plant</td>
<td>Steam Plant Modernization to Meet National Emissions Standards for Hazardous Air</td>
<td>5063960</td>
<td></td>
<td>15000</td>
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<tr>
<td>Holston Army Ammunition Plant</td>
<td>Modernize Water Distribution System</td>
<td>5073961</td>
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<td>8304</td>
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<tr>
<td>Holston Army Ammunition Plant</td>
<td>Pump House Modernization</td>
<td>5073962</td>
<td></td>
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<td>1800</td>
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<td>Holston Army Ammunition Plant</td>
<td>Explosive Manufacturing Alternatives Team (XMAT) Facility Initiative Continuation</td>
<td>50X1000</td>
<td>959</td>
<td>10115</td>
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<td>Iowa Army Ammunition Plant</td>
<td>Replace Building Power/Lighting, General Areas</td>
<td>5053363</td>
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<td>3886</td>
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<tr>
<td>Iowa Army Ammunition Plant</td>
<td>Insensitive Munitions Flexible Load, Assemble, Pack Artillery Manufacturing Systems</td>
<td>50X3809</td>
<td>3487</td>
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<td>Kansas Army Ammunition Plant</td>
<td>Flexible Load, Assemble and Pack Modern Munitions Enterprise</td>
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<td>6475</td>
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<tr>
<td>Lake City Army Ammunition Plant</td>
<td>Small Caliber Modernization Production Line Upgrades</td>
<td>50X3356</td>
<td>37200</td>
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<td>35000</td>
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<tr>
<td>Lone Star Army Ammunition Plant</td>
<td>Load, Assemble and Pack (LAP) Modernization</td>
<td>5053202</td>
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### Exhibit P-40C, Budget Item Justification Sheet

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<th>FY 2007</th>
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<tr>
<td>Lone Star Army Ammunition Plant</td>
<td>Flexible LAP for 120mm Mortar Family of Extended Range Ammunition</td>
<td>5053206</td>
<td>996</td>
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<td>Lone Star Army Ammunition Plant</td>
<td>Production Support Equipment Replacement</td>
<td>5055316</td>
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<td>Radford Army Ammunition Plant</td>
<td>Acid Production for Small Arms Propellant</td>
<td>50X3120</td>
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<td>Radford Army Ammunition Plant</td>
<td>Radford Operations</td>
<td>50X3407</td>
<td>21193</td>
<td>21492</td>
<td>20730</td>
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<td>Radford Army Ammunition Plant</td>
<td>Nitrocellulose (NC) Facilities Upgrade</td>
<td>50X3423</td>
<td>6500</td>
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<td>Riverbank Army Ammunition Plant</td>
<td>Flexible Manufacturing Facility</td>
<td>5053804</td>
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<td>Scranton Army Ammunition Plant</td>
<td>Rehabilitation of Erie 1 Forge Press</td>
<td>5053377</td>
<td>3435</td>
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<tr>
<td>Scranton Army Ammunition Plant</td>
<td>Modernization Requirements at Scranton Army Ammunition Plant</td>
<td>5063013</td>
<td></td>
<td>1000</td>
<td></td>
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<tr>
<td>Various Army Ammunition Plants</td>
<td>Force Protection Guards</td>
<td>5053001</td>
<td>5167</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Various Army Ammunition Plants</td>
<td>Anti-Terrorism/Force Protection</td>
<td>5053415</td>
<td>2703</td>
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<tr>
<td>Various Army Ammunition Plants</td>
<td>Engineering in Support of Industrial Facilities</td>
<td>50X3046</td>
<td>1874</td>
<td>423</td>
<td>2576</td>
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<tr>
<td>Yuma Proving Gnd/Aberdeen Test Center</td>
<td>Production Support Equipment Replacement</td>
<td>50X5060</td>
<td>974</td>
<td>964</td>
<td>1028</td>
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<tr>
<td><strong>Subtotal - Production</strong></td>
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<td></td>
<td><strong>145,613</strong></td>
<td><strong>54,584</strong></td>
<td><strong>114,035</strong></td>
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## Exhibit P-40C, Budget Item Justification Sheet

**Appropriation / Budget Activity / Serial No:**

Procurement of Ammunition, Army / 2 / Ammunition production base support

**P-1 Item Nomenclature**

INDUSTRIAL FACILITIES (EP1200)

**Program Elements for Code B Items:**

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<tr>
<th>Location</th>
<th>Project Title</th>
<th>Code</th>
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<th>FY 2006</th>
<th>FY 2007</th>
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<tr>
<td>Milan Army Ammunition Plant</td>
<td>Wastewater Treatment Facility Upgrade</td>
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<td>719</td>
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<td>Radford Army Ammunition Plant</td>
<td>Maximum Achievable Control Technology (MACT) Compliance</td>
<td>5053915</td>
<td>15000</td>
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<tr>
<td>Radford Army Ammunition Plant</td>
<td>Rebuild C-Line Activated Carbon System</td>
<td>5073006</td>
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<td>1500</td>
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<td>Radford Army Ammunition Plant</td>
<td>Production Support Equipment Replacement</td>
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<td>15,719</td>
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<td><strong>Total Industrial Facilities</strong></td>
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<td>161,332</td>
<td>54,584</td>
<td>116,175</td>
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</table>
### Exhibit P-25, Production Support and Industrial Facilities Cost Analysis (Dollars in Thousands)

1. Date: February 2006

<table>
<thead>
<tr>
<th>2. Project Title/Type</th>
<th>Force Protection Guards</th>
</tr>
</thead>
<tbody>
<tr>
<td>3. End Item Supported Model</td>
<td>Not Applicable</td>
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</table>

<table>
<thead>
<tr>
<th>4. Project Number:</th>
<th>5053001</th>
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<tbody>
<tr>
<td>5. Annual Capacity Before (1-8-5):</td>
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| 6. Annual Capacity After (1-8-5): | Not Applicable |

<table>
<thead>
<tr>
<th>Element of Cost</th>
<th>FY 05</th>
<th>FY 06</th>
<th>FY 07</th>
</tr>
</thead>
<tbody>
<tr>
<td>A. Construction Cost</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>B. Equipment Costs (Individual equipment cost should be specified for all equipment costing more than $0.5 Million)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2.</td>
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<td></td>
<td></td>
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<td>3.</td>
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<td></td>
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<table>
<thead>
<tr>
<th>Subtotal Costs</th>
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<table>
<thead>
<tr>
<th>C. Equipment Installation Cost</th>
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<table>
<thead>
<tr>
<th>D. Contractor Support Cost</th>
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<table>
<thead>
<tr>
<th>E. Corps of Engineers Support Cost</th>
<th></th>
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<table>
<thead>
<tr>
<th>F. Other In-House Support Costs</th>
<th>$167</th>
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</thead>
</table>

<table>
<thead>
<tr>
<th>Total Facility Project Cost</th>
<th>$167</th>
</tr>
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</table>

### H. Facility

1. Name: Various Army Ammunition Plants
2. Location: Multiple
3. Type (GOGO, GOCO, COCO): GOCO

### I. Related Projects

<table>
<thead>
<tr>
<th>Project Number</th>
<th>Title</th>
<th>FY &amp; Appn</th>
<th>Value ($ Mil)</th>
<th>Facing</th>
<th>Start Date</th>
<th>Compl Date</th>
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<tbody>
<tr>
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<td></td>
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### J. Principal Milestones

<table>
<thead>
<tr>
<th>Month &amp; Year</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Concept Design Complete:</td>
<td>Not Applicable</td>
</tr>
<tr>
<td>2. Final Design Complete:</td>
<td>Not Applicable</td>
</tr>
<tr>
<td>3. Initial/Final Project Award:</td>
<td>Oct 2004/Apr 2005</td>
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<tr>
<td>4. Construction Complete:</td>
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<tr>
<td>5. Equipment Installation Complete:</td>
<td>Not Applicable</td>
</tr>
<tr>
<td>6. Prove Out Begins:</td>
<td>Not Applicable</td>
</tr>
<tr>
<td>7. Prove Out Complete:</td>
<td>Not Applicable</td>
</tr>
</tbody>
</table>

### Narrative Explanation:
Procurement supports additional security guards and enhanced force protection measures at the Army's active and semi-active ammunition plants.
## Exhibit P-25, Production Support and Industrial Facilities Cost Analysis (Dollars in Thousands)

### 1. Date:
February 2006

<table>
<thead>
<tr>
<th>2. Project Title/Type</th>
<th>Load, Assemble and Pack (LAP) Modernization</th>
</tr>
</thead>
<tbody>
<tr>
<td>3. End Item Supported Model</td>
<td>Artillery and Loaded Components</td>
</tr>
<tr>
<td>4. Project Number:</td>
<td>5053202</td>
</tr>
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<td>5. Annual Capacity Before (1-8-5):</td>
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<tr>
<td>6. Annual Capacity After (1-8-5):</td>
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### Element of Cost

<table>
<thead>
<tr>
<th>FY 05</th>
<th>FY 06</th>
<th>FY 07</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Name:</td>
<td>Lone Star Army Ammunition Plant</td>
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</tr>
<tr>
<td>2. Location:</td>
<td>Texarkana, Texas</td>
<td></td>
</tr>
<tr>
<td>3. Type (GOGO, GOCO, COCO):</td>
<td>GOCO</td>
<td></td>
</tr>
</tbody>
</table>

### H. Facility

| 1. Name: | Lone Star Army Ammunition Plant |
| 2. Location: | Texarkana, Texas |
| 3. Type (GOGO, GOCO, COCO): | GOCO |

### I. Related Projects

<table>
<thead>
<tr>
<th>Project Number</th>
<th>Title</th>
<th>FY &amp; Appn</th>
<th>Value ($ Mil)</th>
<th>Facing</th>
<th>Start Date</th>
<th>Compl Date</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td>Not Applicable</td>
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### J. Principal Milestones

<table>
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<td>6. Prove Out Begins:</td>
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</tr>
<tr>
<td>7. Prove Out Complete:</td>
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</table>

### Narrative Explanation:

Procurement supports science-based production principles to identify and incorporate flexible Load, Assemble and Pack (LAP) technologies and equipment at Lone Star Army Ammunition Plant (AAP).
### Exhibit P-25, Production Support and Industrial Facilities Cost Analysis (Dollars in Thousands)

1. **Date:**
   - February 2006

2. **Project Title/Type**
   - Flexible Load, Assemble and Pack Modern Munitions Enterprise

3. **End Item Supported Model**
   - Mortar, Sensor Fuzed Weapon, Joint Standoff Weapon System

4. **Project Number:**
   - 5053357

5. **Annual Capacity Before (1-8-5):**
   - Not Applicable

6. **Annual Capacity After (1-8-5):**
   - Not Applicable

<table>
<thead>
<tr>
<th>Element of Cost</th>
<th>FY 05</th>
<th>FY 06</th>
<th>FY 07</th>
</tr>
</thead>
<tbody>
<tr>
<td>A. Construction Cost</td>
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<tr>
<td>B. Equipment Costs</td>
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<tr>
<td>1.</td>
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<td>3.</td>
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<td>F. Other In-House Support Costs</td>
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| H. Facility                      |       |       |       |
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| 2. Location:                     | Parsons, Kansas |
| 3. Type (GOGO, GOCO, COCO):     | GOCO |

<table>
<thead>
<tr>
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<th>Project Number</th>
<th>Title</th>
<th>FY &amp; Appn</th>
<th>Value ($ Mil)</th>
<th>Facing</th>
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<th>Compl Date</th>
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</tr>
<tr>
<td>J. Principal Milestones</td>
<td></td>
<td></td>
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<td></td>
</tr>
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<td>5. Equipment Installation Complete:</td>
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</tbody>
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**Narrative Explanation:**

Procurement supports science-based production principles to identify and incorporate flexible Load, Assemble and Pack (LAP) technologies and equipment at Kansas Army Ammunition Plant (AAP).
## Exhibit P-25, Production Support and Industrial Facilities Cost Analysis (Dollars in Thousands)

**1. Date:** February 2006

<table>
<thead>
<tr>
<th>2. Project Title/Type</th>
<th>Maximum Achievable Control Technology (MACT) Compliance</th>
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<tbody>
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</table>

**G. Other Costs**

1. Facility Prove-out Cost
2. Military Construction Appn

**H. Facility**

1. Name: Radford Army Ammunition Plant
2. Location: Radford, Virginia
3. Type (GOGO, GOCO, COCO): GOCO

### I. Related Projects

<table>
<thead>
<tr>
<th>Project Number</th>
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<th>FY &amp; Appn</th>
<th>Value ($ Mil)</th>
<th>Facing</th>
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### J. Principal Milestones

1. Concept Design Complete: Not Applicable
2. Final Design Complete: Not Applicable
3. Initial/Final Project Award: Jul 2005/Jul 2005
5. Equipment Installation Complete: Not Applicable
6. Prove Out Begins: Not Applicable
7. Prove Out Complete: Not Applicable

**Narrative Explanation:**

Procurement supports the building of a natural gas-fired co-generation plant to produce steam and electricity. Electricity will be produced in gas-fired turbines, with the waste heat used to produce steam. New compressed air equipment for the plant will be a part of the support equipment. The Maximum Achievable Control Technology (MACT) environmental standards mandate major improvement to Radford Army Ammunition Plant's (AAP's) steam plant by September 2007. Rather than continue to upgrade the 65-year-old facility with new precipitators and maintain the coal-handling facilities, a natural gas facility will enable Radford AAP to meet the standards at less cost. Completion of this effort will reduce air emissions and operating expenses of the steam plant.
### Exhibit P-25, Production Support and Industrial Facilities Cost Analysis (Dollars in Thousands)

**1. Date:** February 2006

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<td>5. Equipment Installation Complete:</td>
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<tr>
<td>6. Prove Out Begins:</td>
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<tr>
<td>7. Prove Out Complete:</td>
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**Narrative Explanation:**

Procurement involves the upgrade and modernization of Holston's steam boilers to comply with the Industrial Boiler National Emissions Standards for Hazardous Air Pollutants (NESHAP) and Maximum Achievable Control Technology (MACT) requirements. Compliance will be met by the purchase, installation and prove out of new equipment and controls. Steam is a necessity to the manufacturing mission to provide explosives to the Department of Defense (DoD). This modernization project will ensure future environmental compliance while offering operational cost reductions. Effort is required to upgrade the coal fired boilers with industry standard equipment that is energy efficient and environmentally compliant.
## Exhibit P-25, Production Support and Industrial Facilities Cost Analysis (Dollars in Thousands)

<table>
<thead>
<tr>
<th>Element of Cost</th>
<th>FY 05</th>
<th>FY 06</th>
<th>FY 07</th>
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<td>G. Other Costs</td>
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<td>H. Facility</td>
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<td>Location: Kingsport, Tennessee</td>
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<td>Type (GOGO, GOCC, COCO): GOCO</td>
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### I. Related Projects

<table>
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<th>Value ($ Mil)</th>
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### J. Principal Milestones

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### Narrative Explanation:
Fiscal Year 2007 procurement supports the update/replacement of Holston Army Ammunition Plant's (AAP's) antiquated water distribution lines. The water distribution replacement supports consolidation of the facility with the addition of new segments. This effort will also repair leaks, resolve low water pressure, and alleviate potential standing water areas. The upgraded system will comply with the latest industry standard for water distribution and is required for the uninterrupted production and delivery of Research Department Explosives (RDX) and High Melt Explosives (HMX).
### Exhibit P-25, Production Support and Industrial Facilities Cost Analysis (Dollars in Thousands)

**1. Date:**
February 2006

**2. Project Title/Type**
Explosive Manufacturing Alternatives Team (XMAT) Facility Initiative Continuation

**3. End Item Supported Model**
Research Department Explosive (RDX)/High Melt Explosive (HMX)

**4. Project Number:**
50X1000

**5. Annual Capacity Before (1-8-5):**
Not Applicable

**6. Annual Capacity After (1-8-5):**
Not Applicable

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<td>G. Other Costs</td>
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<td>2. Military Construction Appn</td>
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**H. Facility**

1. Name: Holston Army Ammunition Plant
2. Location: Kingsport, Tennessee
3. Type (GOGO, GOCO, COCO): GOCO

**I. Related Projects**

<table>
<thead>
<tr>
<th>Project Number</th>
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<th>Value ($ Mil)</th>
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**J. Principal Milestones**

1. Concept Design Complete: Not Applicable
2. Final Design Complete: Not Applicable
3. Initial/Final Project Award: Not Applicable
4. Construction Complete: Not Applicable
5. Equipment Installation Complete: Not Applicable
6. Prove Out Begins: Not Applicable
7. Prove Out Complete: Not Applicable

**Narrative Explanation:**
Fiscal Year 2007 procurement supports operational costs at Holston Army Ammunition Plant (AAP). Operational costs include property management efforts such as maintenance, facilitization, environmental, safety, security, traffic management, readiness/reactivation, and support of the on-site Government staff.
### Exhibit P-25, Production Support and Industrial Facilities Cost Analysis (Dollars in Thousands)

<table>
<thead>
<tr>
<th>1. Date:</th>
</tr>
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<tbody>
<tr>
<td>February 2006</td>
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#### 2. Project Title/Type

Acid Production for Small Arms Propellant

#### 3. End Item Supported Model

Propellants and Explosives (Nitroglycerin and Nitrocellulose)

#### 4. Project Number:

30X3120

#### 5. Annual Capacity Before (1-8-5): Not Applicable

#### 6. Annual Capacity After (1-8-5): Not Applicable

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#### H. Facility

1. Name: Radford Army Ammunition Plant
2. Location: Radford, Virginia
3. Type (GOGO, GOCCO, COCO): GOCCO

### I. Related Projects

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<th>Value ($ Mil)</th>
<th>Facing</th>
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### J. Principal Milestones

1. Concept Design Complete: Not Applicable
2. Initial Design Complete: Not Applicable
4. Construction Complete: Not Applicable
5. Equipment Installation Complete: Jul 2008
7. Prove Out Complete: Sep 2008

### Narrative Explanation:

Fiscal Year 2007 procurement supports Radford Army Ammunition Plant's (RFAAP's) continuation with the modernization of the nitric acid concentrator (NAC) and sulfuric acid concentrator (SAC) production trains, and the alcohol/ether distillation facilities and activated carbon treatment processes for the production of the nitrocellulose (NC), propellants, and trinitrotoluene (TNT). Production of NC requires the use of nitric and sulfuric acids; these acids are depleted during the NC nitration process and must be reconcentrated. This reconcentration is accomplished through use of a NAC/SAC which has been operating since 1977 and has exceeded its design life of 20 years. Since repair costs are increasing and are no longer economically viable, this project will replace the NAC/SAC system and provide expanded acid capacity for propellant production. RFAAP is the sole US/Canada supplier of NC, an essential ingredient in all propellants.
**Exhibit P-25, Production Support and Industrial Facilities Cost Analysis (Dollars in Thousands)**

1. Date: February 2006

2. **Project Title/Type**
   Small Caliber Modernization Production Line Upgrades

3. **End Item Supported Model**
   7.62mm & 5.56mm (all types); .50 cal (all types except SLAP-T)

4. **Project Number:**
   50X3356

5. **Annual Capacity Before (1-8-5):**
   1.2B/year (3-8-7)

6. **Annual Capacity After (1-8-5):**
   1.5B/year (3-8-7)

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<td>G. Other Costs</td>
<td>37200</td>
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7. **H. Facility**
   - **Name:** Lake City Army Ammunition Plant
   - **Location:** Independence, Missouri
   - **Type (GOGO, GOCO, COCO):** GOCO

8. **I. Related Projects**

<table>
<thead>
<tr>
<th>Project Number</th>
<th>Title</th>
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</table>

**Narrative Explanation:**
Fiscal Year 2007 procurement supports the rebuild of the 1970's automated high-speed Small Caliber Ammunition Modernization Program (SCAMP) lines mechanically and replaces obsolete line control and inspection electronics on each line. Production line subsystems will be upgraded to include cartridge case fabrication, cartridge case measurement/eject system (CCMES), primer insert, bullet fabrication, and cartridge loading. Work includes associated upgrades to electrical utilities; priming and loading; and heating, ventilation, and air conditioning (HVAC) systems. Lake City Army Ammunition Plant (AAP) is the main source for small caliber ammunition in the United States. Refurbishing these 5.56mm SCAMP lines will restore their reliability and maintainability, reduce scrap rates and downtime, and improve throughput and product quality.
## Exhibit P-25, Production Support and Industrial Facilities Cost Analysis (Dollars in Thousands)

| 1. Date: | February 2006 |

| 2. Project Title/Type | Radford Operations |

| 3. End Item Supported Model | Propellants and Explosives (Nitroglycerin and Nitrocellulose) |

| 4. Project Number: | 50X3407 |

| 5. Annual Capacity Before (1-8-5): | Not Applicable |

| 6. Annual Capacity After (1-8-5): | Not Applicable |

### H. Facility

<table>
<thead>
<tr>
<th>Element of Cost</th>
<th>FY 05</th>
<th>FY 06</th>
<th>FY 07</th>
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<tbody>
<tr>
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<tr>
<td>B. Equipment Costs (Individual equipment cost should be specified for all equipment costing more than $0.5 Million)</td>
<td></td>
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</tr>
<tr>
<td>1.</td>
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<tr>
<td>Subtotal Costs</td>
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<tr>
<td>C. Equipment Installation Cost</td>
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<tr>
<td>D. Contractor Support Cost</td>
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<td>F. Other In-House Support Costs</td>
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<td>20730</td>
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<td>20730</td>
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<td>G. Other Costs</td>
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<tr>
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<td>2. Military Construction Appn</td>
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### J. Principal Milestones

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<td>2. Final Design Complete:</td>
</tr>
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<td>3. Initial/Final Project Award:</td>
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<td>5. Equipment Installation Complete:</td>
</tr>
<tr>
<td>6. Prove Out Begins:</td>
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<tr>
<td>7. Prove Out Complete:</td>
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</table>

### Narrative Explanation:

Fiscal Year 2007 procurement supports funding to enable Radford Army Ammunition Plant's (RFAAP's) operations to supply propellants, explosives, and corresponding intermediate products to the services, and supplements the necessary operating revenue to sustain RFAAP's operations. This effort will result in capacity that meets peacetime and surge requirements.
**Exhibit P-25, Production Support and Industrial Facilities Cost Analysis (Dollars in Thousands)**

1. Date: February 2006

2. Project Title/Type
   Nitrocellulose (NC) Facilities Upgrade

3. End Item Supported Model
   Propellants and Explosives (Nitroglycerin and Nitrocellulose)

4. Project Number: 50X3423
5. Annual Capacity Before (1-8-5): Not Applicable
6. Annual Capacity After (1-8-5): Not Applicable

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<th>FY 07</th>
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</thead>
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<td>9313</td>
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<td>B. Equipment Costs</td>
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<tr>
<td>Individual equipment cost should be specified for all equipment costing more than $0.5 Million</td>
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<td>3. Type (GOGO, GOCO, COCO):</td>
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<table>
<thead>
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<th>Project Number</th>
<th>Title</th>
<th>FY &amp; Appn</th>
<th>Value ($ Mil)</th>
<th>Facing</th>
<th>Start Date</th>
<th>Compl Date</th>
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<table>
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<td>7. Prove Out Complete:</td>
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**Narrative Explanation:**
Fiscal Year 2007 procurement supports the follow-on improvement to the nitrocellulose (NC) production facilities at Radford Army Ammunition Plant (RFAAP). This project will increase supply of NC required for small caliber propellant, improve quality by reducing the product variation, and provide a drier final product as required by users of NC. This effort is focused on implementing improved NC manufacturing technologies and equipment that will reduce energy consumption and hazardous waste streams. Process controls will be upgraded to improve NC quality with a corresponding improvement in labor efficiency.
**Exhibit P-40, Budget Item Justification Sheet**

**Appropriation / Budget Activity / Serial No:**
Procurement of Ammunition, Army / 2 / Ammunition production base support

**P-1 Item Nomenclature**
LAYAWAY OF INDUSTRIAL FACILITIES (EP2000)

**Date:** February 2006

### Program Elements for Code B Items:

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<td>EP2000</td>
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### Other Related Program Elements:

<table>
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<td>Resources will be used at active and semi-active installations for preservation of production equipment and real property facilities required for future production, consolidation of laid-away production equipment, redistribution of production equipment that cannot be stored on-site, safety-related decontamination of production equipment and facilities, and environmental site assessments.</td>
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</table>

### Justification:

Fiscal Year 2007 procurement supports the protection and preservation of industrial facilities at active and semi-active installations and equipment that is no longer required for current production but must be retained for future peacetime, emergency or surge production needs.

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<th>Prior Years</th>
<th>FY 2005</th>
<th>FY 2006</th>
<th>FY 2007</th>
<th>FY 2008</th>
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<th>FY 2010</th>
<th>FY 2011</th>
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</table>
### Exhibit P-40C, Budget Item Justification Sheet

**Date:** February 2006

**Appropriation / Budget Activity / Serial No:** Procurement of Ammunition, Army / 2 / Ammunition production base support

**P-1 Item Nomenclature**


**Program Elements for Code B Items:**

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<tr>
<th>Location</th>
<th>Project Title</th>
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<th>Code</th>
<th>FY 05</th>
<th>FY 06</th>
<th>FY 07</th>
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<th>FY 2008</th>
<th>FY 2009</th>
<th>FY 2010</th>
<th>FY 2011</th>
<th>To Complete</th>
<th>Total Prog</th>
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</table>

### Description:
Funds are used for the maintenance of laid-away ammunition industrial facilities to include utilities, buildings, nonseverable equipment, plant equipment, special tooling, and special test equipment being retained to support future production requirements. Also, included is a fair share of the recurring overhead costs such as grounds maintenance, fire protection, plant security, and administrative support.

### Justification:
Fiscal Year 2007 procurement supports the care and maintenance of laid-away equipment and facilities at active and semi-active ammunition plants.

Fiscal Year 2006 includes supplemental funding of $1.0 million to support emergency relief as a result of Hurricane Katrina.
### Exhibit P-5, Weapon AMMO Cost Analysis

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<tr>
<td></td>
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<td>Holston Army Ammunition Plant (AAP)</td>
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**Description:**

The conventional munition demilitarization program funds the demilitarization and resource recovery of conventional ammunition and demilitarizes missiles and missile components that are unserviceable, obsolete or excess to requirements. This program funds the movement of munitions for demilitarization and technical support for demilitarization projects at various installations, and the commercial contracts for resource recovery/demilitarization of excess, obsolete and unserviceable munitions. The program also funds demilitarization of those munition assets that have become unsafe for continued storage.
## AMMO Cost Elements

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<th>FY 05 Unit Cost</th>
<th>FY 06 Total Cost</th>
<th>FY 06 Tons</th>
<th>FY 06 Unit Cost</th>
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### Description:
The conventional ammunition demilitarization (demil) program funds the demil and disposal of conventional ammunition that is unserviceable, obsolete, unsafe, or excess to requirements. The program accomplishes demil using closed disposal technologies with primary emphasis on resource recovery and recycling, and open burning/open detonation (OB/OD) processes. This program funds movement of ammunition for demil and technical support for demil projects at various installations and the commercial contracts for closed disposal of demil ammunition.

### Justification:
In addition to the demil and disposal of ammunition that is unserviceable, obsolete, or excess to requirements, the demilitarization program also supports readiness as a source of supply for components required in new production. Critical explosives such as TNT and trinitrotoluene, and components such as depleted uranium penetrators and supplementary charges are removed during demilitarization and reused in new production. The continuing requirements to store munitions to be demilitarized have a direct negative impact on the Army's ability to effectively support force projection. Demilitarization stocks impose inefficiency on mobility operations. Outloading is inefficient and resources are wasted. There are increased security considerations as ammunition stocks are stored outside where they are vulnerable to security breaches. With environmental regulations becoming increasingly stringent, indefinitely storing obsolete item will result in ever increasing demilitarization liabilities.

As of 30 December 2005 the conventional ammunition demilitarization account contained over 441,390 tons of ammunition in CONUS wholesale storage locations. In Fiscal Year (FY) 2005, demilitarization accomplishments totaled 46,484 tons. However, in FY 2005 94,344 tons of ammunition entered the demilitarization account; this resulted in a net increase of 47,860 tons in the size of the ammunition demilitarization account. The Army estimates that in FY 2006 22,600 tons of ammunition will be demilitarized and 61,623 tons will be generated into the account. As of 30 December 2005, demilitarization of 3,290 tons of ammunition has been accomplished, and 9,578 tons have been generated into the account. Accomplishments over the next five years should average 40,000 tons per year, while generations should average 70,000 tons per year. Additionally, as part of the War Reserve Stocks Allies-Korea (WRSA-K) drawdown, an additional 80,000 tons of ammunition destined for demilitarization is planned for retrograde to CONUS within the next five years. At this rate the demilitarization account continues to grow.
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### Description:

The Army missile demilitarization (demil) program funds the demil and disposal of Army missiles and missile components (non-SMCA) that are unserviceable, obsolete, unsafe, or excess to requirements. The program accomplishes demil using closed disposal technologies with primary emphasis on resource recovery and recycling and open burning/open detonation (OB/OD) processes. This program funds movement of ammunition for demil and technical support for demil projects at various installations.

### Justification:

FY 2006-2007 program supports 1) demilitarization of Army tactical missiles and components (Shillelagh, HAWK, Stinger, Dragon and PATRIOT) using Open Burning and Open Detonation (OB/OD) techniques, 2) demilitarization of Basic and Extended Range TOW missiles by Closed Disposal (CD)/mechanical Resource Recovery and Recycling (R3) techniques, 3) LRIP operation of Missile Recycling Center, Energetics Processing Module (EPM) used for the processing and recycling of missile energetics, and 4) the conduct of the production scale Risk Reduction Program for MLRS using CD/R3 technologies. The missile and missile component demilitarization stockpile is increasing due to 1) inventory aging, 2) Army modernization efforts, and 3) serviceability issues caused by increased deployments. The stockpile today is over 100,000 missiles and missile components that will grow to over 600,000 by FY 2014. Currently, the Army uses the destructive method of OB/OD to demilitarize tactical missiles; however, pursuant to Executive Order 13101, "Greening the Government", an aggresive R3 integrated program has been established that requires environmentally safe and cost effective alternatives to OB/OD processes. FY 2006-2007 funding will be used for 1) OB/OD execution, 2) CD/R3 demilitarization using mechanical segregation technologies for TOW missiles, 3) CD/R3 demilitarization using chemical processing technologies for TOW missile energetics, 4) fabrication, installation, testing of production tooling, and renovation/repair of demilitarization facilities, 5) the conduct and analysis of production scale Risk Reduction Program for MLRS, PATRIOT and ATACMS using CD/R3 technologies, and 6) optimization of the CD/R3 process to include analysis to improve reuse and recertification of R3 materials for military and commercial applications. The operational R3 production facilities will allow the Army to decrease its dependence on OB/OD. Demilitarization using C/D R3 techniques will provide the Army with the capability to recycle/reuse much of the recovered materials for military and commercial applications.

Quantities for Army Missile Demilitarization are measured in missile units (each missile). Army Missile Demilitarization efforts were accomplished under Conventional Ammunition Demilitarization (SMCA) in FY 2004 and FY 2005.
### Exhibit P-5, Weapon AMMO Cost Analysis

**Appropriation/Budget Activity/Serial No:**
- Procurement of Ammunition, Army/2
- Army Missile Demilitarization (EP1802)

**Weapon System Type:**
- Ammunition production base support

**Date:**
- February 2006

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### Exhibt P-40, Budget Item Justification Sheet

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<td>ARMS INITIATIVE (EP2500)</td>
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**Description:**
The Armament Retooling and Manufacturing Support (ARMS) program reuses idle capacity at active and semi-active Government-Owned, Contractor-Operated (GOCO) Army Ammunition Plants through commercialization. Congress enacted this program in Fiscal Year (FY) 1993 Defense Authorization Act (Public Law (PL) 102-484) and codified in 2000 (10 U.S.C. 434). ARMS uses financial incentives, such as facility strategic reuse plans; marketing plans; building modification; equipment relocation, alteration, or consolidation; environmental baseline studies; and loan guarantees. The ARMS objectives include reducing facility operating costs, decreasing product cost, lowering facility maintenance, providing opportunities for small business, retaining critical skills, and sustaining economic development.

**Justification:**
Fiscal Year 2007 procurement supports the financial incentives to attract revenue-producing tenants to locate on Army Ammunition Plants. Revenues collected are applied to reduce overhead and total annual operating costs. The ARMS program includes loan guarantees and financial incentives and allows the Army to manage portions of the ammunition infrastructure as a commercial business. This management concept has allowed the Army to apply overhead costs across multiple commercial contracts to reduce operating costs. In Fiscal Year 2004 the ARMS program resulted in a cost avoidance of $34.0 million.
# Exhibit P-5, Weapon AMMO Cost Analysis

**Appropriation/Budget Activity/Serial No:**
Procurement of Ammunition, Army/2
Ammunition production base support

**P-1 Line Item Nomenclature:**
ARMS INITIATIVE (EP2500)

**Weapon System Type:**

**Date:**
February 2006

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