DEPARTMENT OF THE ARMY
Procurement Programs

Committee Staff Procurement Backup Book
Fiscal Year (FY) 2006/2007 Budget Submission

PROCUREMENT OF AMMUNITION, ARMY

February 2005
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; $1,720,872,000 in fiscal year FY2006 to remain available for obligation until September 30, 2008.

PERFORMANCE METRICS

Performance metrics used in the preparation of this back-up book may be found in the FY 2006 Army Performance Budget Justification Book, dated 18 February 2005.
**UNCLASSIFIED**

DEPARTMENT OF THE ARMY
FY 2006 PROCUREMENT PROGRAM
President's Budget FY 2006/2007

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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)

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**Date:** February 2005

E00700
CTG, 5.56MM, ALL TYPES

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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 BLANK M200 (E01100)

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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 2006/2007 procurements support annual training and build a depot level in accordance with the Army's procurement goals.

**TYPE CLASSIFICATION DATE:** Prior to 1977
# AMMO Cost Analysis

## Exhibit P-5, Weapon

**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 2005

### 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 5.56MM BLANK M200 (E01100)

**P-1 Line Item Nomenclature:**
Procurement of Ammunition, Army / 1 / Ammunition

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

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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 Single Manager for Conventional Ammunition (SMCA) requirements.

# Weighted unit costs for multiple producers.
## FY 05 / 06 BUDGET PRODUCTION SCHEDULE

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

### Date:
February 2005

### COST ELEMENTS

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### Remarks

- Load, Assemble, Pack
- Production Schedule
- Exhibit P-21

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E00700 (E01100)
CTG 5.56MM BLANK M200
Item No. 1 Page 6 of 49
Exhibit P-21
Production Schedule
## FY 07 / 08 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**
CTG 5.56MM BLANK M200 LINKED F/SAW (E01101)

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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 2006/2007 procurements support annual training and build a depot level in accordance with the Army's procurement goals.

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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 5.56MM BLANK M200 LINKED F/SAW (E01101)
Weapon System Type:
Date:
February 2005
### 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 Single Manager for Conventional Ammunition (SMCA) requirements.

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**COST ELEMENTS**

| Item Nomenclature: CTG 5.56MM BLANK M200 LINKED F/SAW (E01101) | Date: February 2005 |
## FY 07 / 08 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**
CTG 5.56MM BALL M855 F/M16A2 (E04601)

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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 2006/2007 procurements support annual training and build a war reserve inventory in accordance with the Army's procurement goals.

**TYPE CLASSIFICATION DATE:** 1982
### AMMO Cost Analysis

**Exhibit P-5, Weapon System 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:** CTG 5.56MM BALL M855 FM16A2 (E04601)

### LOAD, ASSEMBLE, PACK

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<th>Contract Method and Type</th>
<th>Location of PCO</th>
<th>Award Date</th>
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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 Single Manager for Conventional Ammunition (SMCA) requirements.
## FY 05 / 06 BUDGET PRODUCTION SCHEDULE

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### FY 07 / 08 BUDGET PRODUCTION SCHEDULE

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**CTG 5.56MM BALL M855 F/M16A2**

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**February 2005**
# FY 07 / 08 BUDGET PRODUCTION SCHEDULE

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

**Date:**
February 2005

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**Customer:**

**Prepared By:**

**Reviewed By:**

**Approved By:**

_**Note:** This document includes the production schedule for the item CTG 5.56MM BALL M855 F/M16A2 for Fiscal Years 07 and 08, as well as the budget production schedule for Calendar Years 07 and 08._
**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 2006/2007 procurements support annual training and build a war reserve in accordance with the Army's procurement goals.

**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 / 1 / Ammunition

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

**P-1 Line Item Nomenclature:**
Procurement of Ammunition, Army / 1 / Ammunition

**WBS Cost Elements:**
Contractor and Location | Contract Method and Type | Location of PCO | Award Date | Date of First Delivery | QTY x1000 | Unit Cost $ | Specs Avail Now? | Date Revu Avail | RFP Issue Date |
--- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
LOAD, ASSEMBLE, PACK

| **FY 2004** | ALLIANT TECH (LCAAP) INDEPENDENCE, MO | SS/FP | ROCK ISLAND, IL | FEB-04 | OCT-04 | 36895 | 0.29 |
| **FY 2005** | ALLIANT TECH (LCAAP) INDEPENDENCE, MO | SS/FP | ROCK ISLAND, IL | NOV-04 | MAR-06 | 26311 | 0.31 Y |
| **FY 2006** | ALLIANT TECH (LCAAP) INDEPENDENCE, MO | SS/FP | ROCK ISLAND, IL | JAN-06 | OCT-06 | 37481 | 0.32 Y |
| **FY 2007** | ALLIANT TECH (LCAAP) INDEPENDENCE, MO | SS/FP | ROCK ISLAND, IL | JAN-07 | OCT-07 | 37638 | 0.33 Y |

**BOX METAL M2A1**

| **FY 2004** | BROCKWAY STANDARD HOMERVILLE, GA | C/FP | ROCK ISLAND, IL | MAR-04 | AUG-04 | 46 | 7.36 |
| **FY 2005** | TO BE SELECTED | C/FP | ROCK ISLAND, IL | APR-05 | JUL-05 | 33 | 7.48 Y |
| **FY 2006** | TO BE SELECTED | C/FP | ROCK ISLAND, IL | JAN-06 | JUL-06 | 46 | 7.17 Y |
| **FY 2007** | TO BE SELECTED | C/FP | ROCK ISLAND, IL | JAN-07 | JUL-07 | 47 | 7.30 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 Single Manager for Conventional Ammunition (SMCA) requirements.
## Fiscal Year 05

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### Remarks

- Figures in thousands of dollars.
- Production rates are shown for fiscal years 05 and 06.
- LOAD, ASSEMBLE, PACK: Costs associated with loading, assembling, and packing the product.
- Fiscal Year 05: Costs and production rates for the current fiscal year.
- Fiscal Year 06: Costs and production rates for the upcoming fiscal year.
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### Description:
The Squad Automatic Weapon (SAW) ball round, M855, has a steel, conical insert in the ogive of the bullet. This round is linked in 200-round belts using the M27 link. This item is code A, approved for service use.

### Justification:
This is a training unique item not used in combat. It is used primarily in areas where a fire hazard exists if the tracer round were used. FY2006/2007 procurements support annual training and build a depot level in accordance with the Army's procurement goals.

TYPE CLASSIFICATION DATE: 1982

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

### Weapon System Type:

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

### Procurement of Ammunition, Army / 1 / Ammunition

#### Appropriation/Budget Activity/Serial No:

- FY 2004
- FY 2005
- FY 2006
- FY 2007

#### 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 Single Manager for Conventional Ammunition (SMCA) requirements.
# FY 05 / 06 BUDGET PRODUCTION SCHEDULE

**P-1 Item Nomenclature:**
CTG 5.56MM BALL M855 LINKED F/SAW (E04603)  
**Date:** February 2005

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| O    | N    | D    | J    | F    | M    | A    | M    | J    | J    | A    | S    | P    |
| QTY | QTY | QTY | QTY | QTY | QTY | QTY | QTY | QTY | QTY | QTY | QTY | QTY |
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**E00700 (E04603)**
**CTG 5.56MM BALL M855 LINKED F/SAW**

**Item No. 1**  **Page 28 of 49**  **Exhibit P-21**
**Production Schedule**
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**Production Schedule**
### 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 2006/2007 procurements support annual training and build a war reserve in accordance with the Army's procurement goals.

**TYPE CLASSIFICATION DATE:** 1982

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**Date:** February 2005

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**Exhibit P-40, Budget Item Justification Sheet**
## AMMO Cost Analysis

**Procurement of Ammunition, Army / 1 / Ammunition**

**Date:** February 2005

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

**P-1 Line Item Nomenclature:**
Procurement of Ammunition, Army / 1 / Ammunition

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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 Single Manager for Conventional Ammunition (SMCA) requirements.
## FY 05 / 06 BUDGET PRODUCTION SCHEDULE

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Total 474.29 32.70 441.59
## FY 07 / 08 BUDGET PRODUCTION SCHEDULE

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

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E00700 (E04604)

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

Item No. 1  Page 34 of 49  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 5.56MM, M855, 10 RD CLIP: M2A1 BOX, LEAD FREE (E95400)

**Description:**
The 5.56mm, M855 "lead free" ball cartridge has a bullet with a conical steel insert and a tungsten composite core in a copper alloy jacket. This cartridge is identified by a green colored bullet tip and is military-packed in 10-round clips. 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 2006/2007 procurements support annual training and build a war reserve inventory in accordance with the Army's procurement goals. The intended use is to maintain environmentally "clean" ranges.

**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 / 1 / Ammunition

**Weapon System Type:**
CTG 5.56MM, M855, 10 RD CLIP: M2A1 BOX, LEAD FREE (E95400)

**P-1 Line Item Nomenclature:**
Procurement of Ammunition, Army / 1 / Ammunition

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**REMARKS:**
# FY 07 / 08 BUDGET PRODUCTION SCHEDULE

**P-1 Item Nomenclature:**
CTG 5.56MM, M855, 10 RD CLIP: M2A1 BOX, LEAD FREE (E95400)

**Date:**
February 2005

## COST ELEMENTS

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**LOAD, ASSEMBLE, PACK**

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**Exhibit P-21**

Production Schedule
## FY 09 / 10 Budget Production Schedule

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**MFR**

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E00700 (E954000)  
CTG 5.56MM, M855, 10 RD CLIP: M2A1 BOX, LEAD FREE
**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)

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**Description:**

The M855 ball has a conical insert in the ogive of the bullet that increases the helmet penetration. 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 both in training and combat. However, due to the commercial pack, it is used primarily for CONUS-based training. FY 2006/2007 procurements support annual training and build a war reserve inventory in accordance with the Army's procurement goals.

**Type Classification Date:** 1982
## AMMO Cost Analysis

### Exhibit P-5, Weapon System Cost Analysis

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

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

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

**Weapon System Type:**

**Date:**
February 2005

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**Total**

32671 | 0.29 | 9398 | 0.24 | 38153 | 0.22 | 40913 | 0.22
**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 Ball, M855 (Commercial Pack) (E95901)

**P-1 Line Item Nomenclature:**
Procurement of Ammunition, Army / 1 / Ammunition

**CTG, 5.56MM Ball, M855 (Commercial Pack) (E95901)**

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<th>Location of PCO</th>
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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 Single Manager for Conventional Ammunition (SMCA) requirements.

# Weighted unit costs for multiple producers.
## FY 05 / 06 BUDGET PRODUCTION SCHEDULE

**Item Nomenclature:** CTG, 5.56MM Ball, M855 (Commercial Pack) (E95901)  
**Date:** February 2005

### COST ELEMENTS

| MFR | FY  | SERV | PROC QTY x1Mil | ACCEP PRIOR TO 1 OCT | BAL DUE AS OF 1 OCT | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | LATE |
|-----|-----|------|----------------|---------------------|---------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
|     |     |      |                |                     |                     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 1   | FY 04 | P  | A  | 126.0 | 55.0 | 71.0 | 9.7 | 8.3 | 5.2 | 0.6 | 5.2 | 6.0 | 5.5 | 5.5 | 5.8 | 5.2 | 6.0 | 3.7 | 1.7 | 2.6 | 0.0 |
| 2   | FY 04 | A  | 70.0 | 38.6 | 31.4 | 12.0 | 8.9 | 7.4 | 3.1 |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 3   | FY 04 | A  | 70.0 | 22.0 | 48.0 | 4.7 | 6.1 | 4.2 | 5.2 | 5.3 | 5.3 | 5.3 | 1.0 |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 1   | FY 05 | A  | 40.6 | 0.0  | 40.6 |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 1   | FY 06 | A  | 181.0| 0.0  | 181.0|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 1   | FY 07 | A  | 192.0| 0.0  | 192.0|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |

**Total:** 679.6 115.6 564.0

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E00700 (E95901)  
CTG, 5.56MM Ball, M855 (Commercial Pack)  
Item No. 1  Page 43 of 49  
Exhibit P-21  
Production Schedule
## FY 07 / 08 BUDGET PRODUCTION SCHEDULE

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

**Date:** February 2005

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**E00700 (E95901)**
CTG, 5.56MM Ball, M855 (Commercial Pack)

Item No. 1  Page 44 of 49
The M995 5.56mm Armor Piercing cartridge is designed for use in the M249 Squad Automatic Weapon (SAW) Machine Gun, the M16A4 Rifle and the M4 Carbine for use against current and future 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 dense metal penetrator (tungsten carbide), which is enclosed by a standard gilding metal jacket. An aluminum cup sits at the rear of the projectile to properly locate the penetrator within the projectile. The penetrator is similar to components used in other small caliber cartridges currently used by the US Army, but tungsten has better penetration capabilities than the other materials and is the design feature, which enhances the armor piercing capability of the cartridge. The cartridge uses a conventional brass case and double-base propellant. A standard rifle cartridge primer is used in the case to initiate the propelling charge. This item is code A, approved for service use.

Justification:
This is a war reserve item. FY 2006/2007 procurements build a war reserve inventory in accordance with the Army's procurement goals. Procurement is intended for use against current and future light armored targets. The M995 5.56mm Armor Piercing cartridge offers the capability to defeat these targets at ranges two to three times that of currently available ammunition.

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**M995 5.56MM Armor Piercing Cartridge**

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### FY 07 / 08 BUDGET PRODUCTION SCHEDULE

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

**Date:**
February 2005

#### Fiscal Year 07

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| Total | | 20.21 | 9.59 | 10.62 | | | |

#### Fiscal Year 08

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<td>Plus CY Adv Proc</td>
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<td>Wpn Sys Proc U/C</td>
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**Description:**
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<td>TotalCost</td>
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<td>$</td>
<td>$000 x1000</td>
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**Total**                                   |    | 75653     | 44888     | 75290     | 118338    |

Procurement of Ammunition, Army / 1 / Ammunition

CTG, 7.62MM, ALL TYPES
### 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 2006/2007 procurements support annual training and build a depot level in accordance with the Army's procurement goals.

TYPE CLASSIFICATION DATE: 1958
### AMMO Cost Analysis

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<td>38482</td>
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**Note:**
- Procurement of Ammunition, Army / 1 / Ammunition
- CTG 7.62MM BLANK M82 LINKED/M13 (E01902)
- February 2005
**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 BLANK M82 LINKED/M13 (E01902)

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

**WBS Cost Elements:**
Contractor and Location

<table>
<thead>
<tr>
<th>Contractor and Location</th>
<th>Method and Type</th>
<th>Location of PCO</th>
<th>Award Date</th>
<th>Date of First Delivery</th>
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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 Single Manager for Conventional Ammunition (SMCA) requirements.
## FY 05 / 06 Budget Production Schedule

### COST ELEMENTS

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<th>FY</th>
<th>SEVER</th>
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<th>BAL DUE AS OF 1 OCT</th>
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#### MFR

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### Fiscal Year 05

#### Calendar Year 05

- **OCT**
  - **DEC**
  - **JAN**
  - **FEB**
  - **MAR**
  - **APR**
  - **MAY**
  - **JUN**
  - **JUL**
  - **AUG**

#### Fiscal Year 06

- **OCT**
  - **DEC**
  - **JAN**
  - **FEB**
  - **MAR**
  - **APR**
  - **MAY**
  - **JUN**
  - **JUL**
  - **AUG**

**TOTAL**: 346.05

**COMPLETE ROUND**

- **FY 04 P**: A
  - **FY 05**: A
  - **FY 06**: A
  - **FY 07**: A

**TOTAL** 178.73

**FINAL ROUND**

- **FY 05**: A
  - **FY 06**: A
  - **FY 07**: A

**TOTAL** 178.73

**TOTAL**: 346.05

### Notes

- **COST ELEMENTS**
- **E02000 (E01902)**
- **Item No. 2 Page 6 of 29**
- **Exhibit P-21**
- **Production Schedule**
## FY 07 / 08 BUDGET PRODUCTION SCHEDULE

**Item Nomenclature:** CTG 7.62MM BLANK M82 LINKED/M13 (E01902)  
**Date:** February 2005

### Fiscal Year 07

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### Remarks

- **COMPLETE ROUND**
- **TOTAL**

### Production Schedule

- **E02000 (E01902)**  
- **CTG 7.62MM BLANK M82 LINKED/M13**  
- **Item No. 2** Page 7 of 29  
- **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 7.62MM 4 BALL/1 TRACER LINKED (E02002)

**Program Elements for Code B Items:**

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**Other Related Program Elements:**

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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 2006/2007 procurements support annual training and build a war reserve inventory in accordance with the Army's procurement goals.

**TYPE CLASSIFICATION DATE:** 1957
### AMMO Cost Analysis

<table>
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**Total**

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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 4 BALL/1 TRACER LINKED (E02002)

**P-1 Line Item Nomenclature:**
Procurement of Ammunition, Army / 1 / Ammunition

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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 Single Manager for Conventional Ammunition (SMCA) requirements.
## FY 05 / 06 BUDGET PRODUCTION SCHEDULE

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

| Item No. 2 | Page 11 of 29 | Exhibit P-21

### Fiscal Year 05

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### FY 05 / 06 BUDGET PRODUCTION SCHEDULE

**P-1 Item Nomenclature:**

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

**Date:**

February 2005

### COST ELEMENTS

| MFR  | FY     | SERV | PROC QTY x 1Mil | ACCEP PRIOR TO 1 OCT | BAL DUE AS OF 1 OCT | O C T | 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 | N O V | D E C |
|------|--------|------|-----------------|----------------------|---------------------|--------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 1    | FY 05  | NS   | 1.99            | 0.00                 | 1.99                | 0.20   | 0.20 | 0.20 | 0.20 | 0.20 | 0.20 | 0.20 | 0.10 | 0.10 | 0.09 | 0    |      |      |
| 1    | FY 06  | NS   | 4.00            | 0.00                 | 4.00                | 4.00   |      |      |      |      |      |      |      |      |      |      |      |
| 1    | FY 07  | NS   | 2.00            | 0.00                 | 2.00                | 2.00   |      |      |      |      |      |      |      |      |      |      |      |
| 1    | FY 04 P| SOF  | 5.00            | 3.00                 | 2.00                | 1.00   |      |      |      |      |      |      |      |      |      |      |      |
| 1    | FY 04  | SOF  | 2.00            | 0.00                 | 2.00                | 0.20   |      |      |      |      |      |      |      |      |      |      |      |
| 1    | FY 05  | SOF  | 4.00            | 0.00                 | 4.00                | 0.30   |      |      |      |      |      |      |      |      |      |      |
| 1    | FY 06  | SOF  | 3.00            | 0.00                 | 3.00                | 3.00   |      |      |      |      |      |      |      |      |      |      |

**Fiscal Year 05**

- **Calendar Year 05**
- **Calendar Year 06**

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**Exhibit P-21**

Production Schedule
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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 7.62MM BALL M80 LINKED/M13 (E02003)

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Description:
This cartridge is for use in the M60, M73, M219, 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 2006/2007 procurements support annual training and build a depot level in accordance with the Army's procurement goals.

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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 BALL M80 LINKED/M13 (E02003)

**P-1 Line Item Nomenclature:**
Procurement of Ammunition, Army / 1 / Ammunition

### 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 Single Manager for Conventional Ammunition (SMCA) requirements.

# Weighted unit costs for multiple producers.
| Item No. 2 | Page 18 of 29 | Exhibit P-21 | Production Schedule |
## FY 07 / 08 Budget Production Schedule

**Item Nomenclature:** CTG 7.62MM BALL M80 LINKED/M13 (E02003)

**Date:** February 2005

### Fiscal Year 07

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**Total:** 61.96 31.88 30.08

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**Total:** 61.96 31.88 30.08

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**Production Rates**

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**Admin/Lead Time**

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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 2006/2007 procurements support annual training and build a war reserve inventory in accordance with the Army's procurement goals.

**TYPE CLASSIFICATION DATE:** 1975
### AMMO Cost Analysis

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**HARDWARE**
- LOAD, ASSEMBLE, PACK: 6110 $000, 15252 Qty, 0.40 UnitCost
- BOX METAL M548: 275 $000, 9 Qty, 29.06 UnitCost

**PRODUCTION SUPPORT COSTS**
- PRODUCTION ENGINEERING: 274 $000, 188 Qty, 0.44 UnitCost
- QUALITY ASSURANCE: 1 $000, 7 Qty, 0.55 UnitCost
- ACCEPTANCE TESTING: 52 $000

**PROD SUPPORT SUBTOTAL**
- 274 $000, 241 Qty, 0.44 UnitCost

**Total**
- 6659 $000, 0.44 UnitCost
- 6651 $000, 0.49 UnitCost
- 3283 $000, 0.55 UnitCost
- 4495 $000, 0.55 UnitCost
### 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 4 BALL/1 TRACER F/MINIGUN (E02006)

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

**Date:**
- February 2005

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**BOX METAL M548**

| FY 2004 | CONCO, INC. LOUISVILLE, KY | C/OPTION | ROCK ISLAND, IL | JAN-04 | SEP-04 | 9 | 29.06 | Y |
| FY 2005 | CONCO, INC. LOUISVILLE, KY | C/OPTION | ROCK ISLAND, IL | FEB-05 | JUL-05 | 10 | 29.93 | Y |
| FY 2006 | TO BE SELECTED | C/FP | ROCK ISLAND, IL | JAN-06 | JUL-06 | 4 | 26.66 | Y |
| FY 2007 | TO BE SELECTED | C/FP | ROCK ISLAND, IL | JAN-07 | JUL-07 | 6 | 27.16 | Y |

**REMARKS:**

E02000 (E02006)

CTG 7.62MM 4 BALL/1 TRACER F/MINIGUN

Item No. 2. Page 22 of 29

Exhibit P-5a

Procurement History and Planning
### FY 05 / 06 BUDGET PRODUCTION SCHEDULE

**Item Nomenclature:** CTG 7.62MM 4 BALL/1 TRACER F/MINIGUN (E02006)  
**Date:** February 2005

#### Fiscal Year 05

| MFR         | FY   | QTY x1Mil | ACCEP PRIOR TO 1 OCT | BAL DUE AS OF 1 OCT | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|--------------|------|-----------|----------------------|---------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Load, Assemble, Pack |
| 1 FY 04 P | A   | 15.30   | 0.00  | 15.30               | 1.20 | 1.20 | 1.20 | 1.20 | 1.30 | 1.30 | 1.30 | 1.30 | 1.60 |
| 1 FY 05   | A   | 13.70   | 0.00  | 13.70               | A    | 1.00 | 1.20 | 1.20 | 1.20 | 1.20 | 1.20 | 1.20 | 1.20 | 1.20 | 1.20 | 1.20 | 0.70 |
| 1 FY 06   | A   | 6.08    | 0.00  | 6.08                | A    | 6.08 |
| 1 FY 07   | A   | 8.29    | 0.00  | 8.29                | A    | 8.29 |
| 1 FY 06 P | NS  | 3.04    | 0.00  | 3.04                | 0.20 | 0.20 | 0.20 | 0.20 | 0.20 | 0.20 | 0.20 | 0.50 | 0.54 |
| 1 FY 07 P | NS  | 0.39    | 0.00  | 0.39                | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 | 0.15 |
| Total     |     | 62.78   |       | 62.78               | 1.40 | 1.50 | 1.50 | 1.50 | 1.60 | 1.65 | 1.65 | 2.14 | 1.00 | 1.20 | 1.20 | 1.20 | 1.20 | 1.20 | 1.20 | 1.20 | 1.20 | 0.70 | 29.99 |

#### Fiscal Year 06

| MFR         | FY   | QTY x1Mil | ACCEP PRIOR TO 1 OCT | BAL DUE AS OF 1 OCT | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|--------------|------|-----------|----------------------|---------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| ALLIANT (LCAAP), MO |
| 1 FY 04 P | A   | 15.30   | 0.00  | 15.30               | 1.20 | 1.20 | 1.20 | 1.20 | 1.30 | 1.30 | 1.30 | 1.30 | 1.60 |
| 1 FY 05   | A   | 13.70   | 0.00  | 13.70               | A    | 1.00 | 1.20 | 1.20 | 1.20 | 1.20 | 1.20 | 1.20 | 1.20 | 1.20 | 1.20 | 1.20 | 0.70 |
| 1 FY 06   | A   | 6.08    | 0.00  | 6.08                | A    | 6.08 |
| 1 FY 07   | A   | 8.29    | 0.00  | 8.29                | A    | 8.29 |
| 1 FY 06 P | NS  | 3.04    | 0.00  | 3.04                | 0.20 | 0.20 | 0.20 | 0.20 | 0.20 | 0.20 | 0.20 | 0.50 | 0.54 |
| 1 FY 07 P | NS  | 0.39    | 0.00  | 0.39                | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 | 0.15 |
| Total     |     | 62.78   |       | 62.78               | 1.40 | 1.50 | 1.50 | 1.50 | 1.60 | 1.65 | 1.65 | 2.14 | 1.00 | 1.20 | 1.20 | 1.20 | 1.20 | 1.20 | 1.20 | 1.20 | 1.20 | 0.70 | 29.99 |

#### Remarks

- MFR: Manufacturer/Supplier
- FY: Fiscal Year
- QTY x1Mil: Quantity per Million
- ACCEP PRIOR TO 1 OCT: Acceptance Prior to 1 Oct
- BAL DUE AS OF 1 OCT: Balance Due as of 1 Oct
- OCT: October
- NOV: November
- DEC: December
- JAN: January
- FEB: February
- MAR: March
- APR: April
- MAY: May
- JUN: June
- JUL: July
- AUG: August
- SEP: September
- COST ELEMENTS: Cost Elements
- MFR TOTAL: MFR Total
- REMARKS: Remarks
## FY 07 / 08 BUDGET PRODUCTION SCHEDULE

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

### Fiscal Year 07

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Exhibit P-40, Budget Item Justification Sheet

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

Date: February 2005

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

Program Elements for Code B Items:

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Description:
The M993 7.62mm Armor Piercing (AP) cartridge is currently designed for use in the M240 Machine Gun and the M24 Sniper Weapon intended for use against current and future 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 cartridge uses a conventional brass cartridge case with a Berdan primer. The projectile consists of a dense metal penetrator (tungsten core), which is enclosed by metal jacket. The shaped tungsten core provides the enhanced armor penetration, representing a key departure from the current 7.62mm ball service round. 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 2006/2007 procurements support annual training and build a war reserve inventory in accordance with the Army's procurement goals.

Type Classification (TC) Date: February 1996.
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### M993 7.62mm Armor Piercing Penetrator

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**REMARKS:**
## FY 05 / 06 BUDGET PRODUCTION SCHEDULE

**CTG 7.62MM ARMOR PIERCING M993 (F47500)  February 2005**

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**Total**

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**Total**

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### Remarks

- **Load, Assemble, and Pack**

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**Total**

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**Production Schedule**

- **P-1 Item Nomenclature:**
- **CTG 7.62MM ARMOR PIERCING M993 (F47500)**
- **Date:** February 2005
- **Exhibit P-21**
## FY 07 / 08 BUDGET PRODUCTION SCHEDULE

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

**Date:** February 2005

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#### Lead, Assemble, and Pack

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**Exhibit P-21**
Production Schedule
### Exhibit P-40, Budget Item Justification Sheet

**Date:** February 2005

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

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

#### Program Elements for Code B Items:

<table>
<thead>
<tr>
<th>Code: A</th>
<th>Other Related Program Elements:</th>
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<tbody>
<tr>
<td>Gross Cost</td>
<td>72.6, 10.5, 4.4, 5.1, 4.0, 3.8, 4.7, 4.8, 4.9, 5.0, 119.8</td>
</tr>
<tr>
<td>Less PY Adv Proc</td>
<td></td>
</tr>
<tr>
<td>Plus CY Adv Proc</td>
<td></td>
</tr>
<tr>
<td>Net Proc (P-1)</td>
<td>72.6, 10.5, 4.4, 5.1, 4.0, 3.8, 4.7, 4.8, 4.9, 5.0, 119.8</td>
</tr>
<tr>
<td>Initial Spares</td>
<td></td>
</tr>
<tr>
<td>Total Proc Cost</td>
<td>72.6, 10.5, 4.4, 5.1, 4.0, 3.8, 4.7, 4.8, 4.9, 5.0, 119.8</td>
</tr>
<tr>
<td>Flyaway U/C</td>
<td></td>
</tr>
<tr>
<td>Wpn Sys Proc U/C</td>
<td></td>
</tr>
</tbody>
</table>

**Description:**
This budget line item includes the M882 Ball, the AT-4 Multipurpose Weapons Trainer, and the XM1041 Marking Cartridge.
## AMMO Cost Analysis

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

<table>
<thead>
<tr>
<th>AMMO Cost Elements</th>
<th>FY 04</th>
<th>FY 05</th>
<th>FY 06</th>
<th>FY 07</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>TotalCost</td>
<td>Qty</td>
<td>UnitCost</td>
<td>TotalCost</td>
</tr>
<tr>
<td>CTG 9MM BALL M882</td>
<td>1400</td>
<td>12962</td>
<td>0.11</td>
<td>1634</td>
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<tr>
<td>CTG 9MM BALL M882 COMMERCIAL PACK</td>
<td>2237</td>
<td>23950</td>
<td>0.09</td>
<td>717</td>
</tr>
<tr>
<td>AT-4 MULTI-PURPOSE WEAPON TRAINER</td>
<td>779</td>
<td>514</td>
<td>1.52</td>
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<td>CTG 9MM MARKING XM1041</td>
<td>697</td>
<td>493</td>
<td>1.41</td>
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| Total | 4416 | 5058 | 4018 | 3834 |

**Procurement of Ammunition, Army / 1 / Ammunition**

**AMMO Cost Analysis**

**P-1 Line Item Nomenclature:**

CTG, 9MM, ALL TYPES (EA3000)

**Weapon System Type:**

February 2005
## Exhibit P-40, Budget Item Justification Sheet

**Date:** February 2005

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

### P-1 Item Nomenclature
CTG, .50 CAL, ALL TYPES (E08000)

### Program Elements for Code B Items:

<table>
<thead>
<tr>
<th>Description</th>
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<tbody>
<tr>
<td>This budget line includes .50 CAL ALL TYPES.</td>
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<table>
<thead>
<tr>
<th>Code:</th>
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<tbody>
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<table>
<thead>
<tr>
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<tbody>
<tr>
<td>Proc Qty</td>
<td>610.6</td>
<td>112.3</td>
<td>103.3</td>
<td>69.2</td>
<td>110.0</td>
<td>124.1</td>
<td>143.4</td>
<td>135.7</td>
<td>114.7</td>
<td>1666.2</td>
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<td></td>
</tr>
<tr>
<td>Gross Cost</td>
<td>610.6</td>
<td>112.3</td>
<td>103.3</td>
<td>69.2</td>
<td>110.0</td>
<td>124.1</td>
<td>143.4</td>
<td>135.7</td>
<td>114.7</td>
<td>1666.2</td>
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<td></td>
</tr>
<tr>
<td>Less PY Adv Proc</td>
<td>610.6</td>
<td>112.3</td>
<td>103.3</td>
<td>69.2</td>
<td>110.0</td>
<td>124.1</td>
<td>143.4</td>
<td>135.7</td>
<td>114.7</td>
<td>1666.2</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Plus CY Adv Proc</td>
<td>610.6</td>
<td>112.3</td>
<td>103.3</td>
<td>69.2</td>
<td>110.0</td>
<td>124.1</td>
<td>143.4</td>
<td>135.7</td>
<td>114.7</td>
<td>1666.2</td>
<td></td>
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</tr>
<tr>
<td>Net Proc (P-1)</td>
<td>610.6</td>
<td>112.3</td>
<td>103.3</td>
<td>69.2</td>
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<td>143.4</td>
<td>135.7</td>
<td>114.7</td>
<td>1666.2</td>
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<tr>
<td>Initial Spares</td>
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<td>69.2</td>
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<td>143.4</td>
<td>135.7</td>
<td>114.7</td>
<td>1666.2</td>
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<td>103.3</td>
<td>69.2</td>
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<td>124.1</td>
<td>143.4</td>
<td>135.7</td>
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<tr>
<td>Flyaway U/C</td>
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<td>103.3</td>
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## AMMO Cost Analysis

<table>
<thead>
<tr>
<th>ID</th>
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<th>FY 06</th>
<th>FY 07</th>
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<tbody>
<tr>
<td></td>
<td>TotalCost</td>
<td>Qty</td>
<td>UnitCost</td>
<td>TotalCost</td>
</tr>
<tr>
<td></td>
<td>$000</td>
<td>x1000</td>
<td>$</td>
<td>$000</td>
</tr>
<tr>
<td>CTG CAL .50 BALL M33 W/M9 LINK</td>
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<td>5098</td>
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<tr>
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<tr>
<td>CTG CAL .50 SLAP-T M903 (M962 TRACER)</td>
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<td>247</td>
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<td>CTG CAL .50 API MK211 MOD 0 MULTI SNGLE</td>
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<tr>
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<tr>
<td>CTG CAL .50 BLANK M1A1 LKD W/M9 LNK</td>
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<td>2067</td>
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<td>CTG CAL .50 SLAP-T M962</td>
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<td>CTG CAL .50 SHORT RG LINKED 4/1</td>
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E08000
CTG, .50 CAL, ALL TYPES

Item No. 4  Page 2 of 38

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 CAL .50 LINKED 4 API/1 API TRACER W/M9 LINK (E06903)

### Program Elements for Code B Items:

<table>
<thead>
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<th>Item Nomenclature</th>
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<td></td>
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<tr>
<td>Plus CY Adv Proc</td>
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<td></td>
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<tr>
<td>Net Proc (P-1)</td>
<td>4.9</td>
<td>3.4</td>
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<tr>
<td>Initial Spares</td>
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<tr>
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<td>4.9</td>
<td>3.4</td>
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<td>Flyaway U/C</td>
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<td></td>
</tr>
<tr>
<td>Wpn Sys Proc U/C</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### Description:
This item consists of Cartridge, Armor Piercing Incendiary M8 and Cartridge, Tracer M20 linked 4-to-1 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. Procurement supports annual training and builds a war reserve inventory in accordance with the Army's procurement goals.

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

---

**E08000 (E06903)**  
CTG CAL .50 LINKED 4 API/1 API TRACER W/M9 LINK  
Item No. 4  Page 3 of 38  
Exhibit P-40  
Budget Item Justification Sheet
<table>
<thead>
<tr>
<th>AMMO Cost Elements</th>
<th>ID</th>
<th>FY 04</th>
<th>FY 05</th>
<th>FY 06</th>
<th>FY 07</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>CD</td>
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<td>Qty</td>
<td>UnitCost</td>
<td>TotalCost</td>
</tr>
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<td>$000 x1000</td>
<td>$000 x1000</td>
<td>$000 x1000</td>
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<td>Load, Assemble, Pack (LAP)</td>
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<td>14754</td>
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<td>Box Metal M2A1</td>
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<td>533</td>
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<td>SubTotal AMMO Hardware</td>
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</tr>
<tr>
<td>PRODUCTION SUPPORT COSTS</td>
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<td>Production Engineering</td>
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<td>SubTotal Production Support</td>
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**Exhibit P-5a, Budget Procurement History and Planning**

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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>
<th>Specs Avail Now?</th>
<th>Date Revun Avail</th>
<th>RFP Issue Date</th>
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</thead>
<tbody>
<tr>
<td>Load, Assemble, Pack (LAP)</td>
<td>ALLIANT TECH (LCAAP) INDEPENDENCE, MO</td>
<td>SS/FP</td>
<td>ROCK ISLAND, IL</td>
<td>MAR-04</td>
<td>NOV-04</td>
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<td>Box Metal M2A1</td>
<td>BROCKWAY STANDARD HOMERVILLE, GA</td>
<td>C/FP</td>
<td>ROCK ISLAND, IL</td>
<td>MAR-04</td>
<td>MAY-04</td>
<td>71</td>
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</table>

**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 Single Manager for Conventional Ammunition (SMCA) requirements.
P-1 Item Nomenclature:
CTG CAL .50 LINKED 4 API/1 API TRACER W/M9 LINK (E06903)

FY 05 / 06 BUDGET PRODUCTION SCHEDULE

Date:
February 2005

Fiscal Year 05

COST ELEMENTS

M
F
R

S
E
R
V

FY

PROC
QTY
x1Mil

ACCEP
PRIOR
TO
1 OCT

BAL
DUE
AS OF
1 OCT

Fiscal Year 06

Calendar Year 05
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L

A
U
G

Calendar Year 06
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V

D
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N

F
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B

M
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R

A
P
R

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J
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L

A
U
G

S
E
P

L
A
T
E
R

Load, Assemble, Pack (LAP)
1

FY 04 P

A

8.47

0.29

8.18

1

FY 05

AF

0.23

0.00

0.23

1

FY 06

AF

1.06

0.00

1.06

1

FY 07

AF

1.12

0.00

1.12

1

FY 04 P

CG

0.38

0.00

0.38

1

FY 05

CG

0.38

0.00

0.38

1

FY 06

CG

0.38

0.00

0.38

0.38

1

FY 07

CG

0.38

0.00

0.38

0.38

1

FY 04 P

MC

4.36

3.40

1

FY 04

MC

2.75

0.00

1

FY 05

MC

0.69

0.00

1

FY 06

MC

5.15

0.00

0.96 0.42 0.28 0.26
2.75
0.25 0.26 0.26 0.26 0.35 0.35 0.34 0.34 0.34
0.69
0.06 0.05 0.05 0.06 0.05 0.06 0.06 0.06 0.06 0.06 0.06 0.06
5.15

5.15

0.05 0.10 0.21 0.22 0.25 0.08 0.08 0.08 0.07 0.07

1.12
0

0.09 0.09 0.10 0.10
0.04 0.03 0.03 0.03 0.03 0.03 0.03 0.03 0.03

0.03 0.04 0.03

0

0
0
0

FY 07

MC

5.61

0.00

5.61

5.61

FY 06

NS

7.40

0.00

7.40

7.40

1

FY 07

NS

0.17

0.00

0.17

0.17

1

FY 04 P

SOF

1.00

0.27

1

FY 06

SOF

1.20

0.00

0.73 0.27 0.25 0.21
1.20

1.20

1

FY 07

SOF

1.20
41.93

0.00
3.96

.00

1-8-5
1.15

N
O
V

D
E
C

J
A
N

F
E
B

MFR
REACHED

MIN.

0

1.20
37.97 0.69 0.58 0.57 0.55 0.57 0.61 0.44 0.43 0.43 0.41 0.41 0.34 0.70 0.68 0.68 0.69 0.68 0.70 0.69 0.69 0.69 0.69 0.70 0.68

PRODUCTION RATES

F
NAME/LOCATION

0

1

M

ALLIANT (LCAAP), MO

0
1.06

O
C
T

1

0.58 0.58 0.58
0.02 0.02 0.01

1

Total

R

0.58 0.58 0.58 0.58 0.58 0.59 0.58 0.58 0.58
0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02

MAX.
3.96

0

1

A
P
R

M
A
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J
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J
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A
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G

S
E
P

ADMINLEAD TIME

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N
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V

D
E
C

J
A
N

F
E
B

M
A
R

MFR

TOTAL

Prior 1 Oct

After 1 Oct

After 1 Oct

After 1 Oct

INITIAL

6

4

9

13

REORDER

6

4

9

13

Number

D+

M
A
R

A
P
R

M
A
Y

J
U
N

J
U
L

A
U
G

1.20
23.67

S
E
P

REMARKS

FY04 deliveries include Title IX
Supplemental.

INITIAL
REORDER
INITIAL
REORDER
INITIAL
REORDER
INITIAL
REORDER

E08000 (E06903)
CTG CAL .50 LINKED 4 API/1 API TRACER W/M9 LINK

Item No. 4 Page 6 of 38
86

Exhibit P-21
Production Schedule


## FY 07 / 08 Budget Production Schedule

### Lead, Assemble, Pack (LAP)

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<th>MFR</th>
<th>FY</th>
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**Item No. 4 Page 7 of 38**

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

| Description: | The caliber .50 ball M33 is linked with the M9 links for use with caliber .50 machine guns, M2 and M3. These rounds are also used in function test firing of the M2 and M3 machine guns. This item is Code A, approved for service use. |
| Justification: | This is a training standard item used in both training and combat. FY 2006/2007 procurements support annual training and build a war reserve inventory in accordance with the Army's procurement goals. |
| TYPE CLASSIFICATION DATE: | 1951 |

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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 BALL M33 W/M9 LINK (E07100)

**P-1 Line Item Nomenclature:**
Procurement of Ammunition, Army / 1 / Ammunition

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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 Single Manager for Conventional Ammunition (SMCA) requirements.
### FY 05 / 06 BUDGET PRODUCTION SCHEDULE

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E08000 (E07100)  
CTG CAL .50 BALL M33 W/M9 LINK  
Item No. 4  Page 11 of 38  
91  
Exhibit P-21  
Production Schedule
## FY 07 / 08 BUDGET PRODUCTION SCHEDULE

**P-1 Item Nomenclature:** CTG CAL .50 BALL M33 W/M9 LINK (E07100)
**Date:** February 2005

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

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

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**Description:**
This item consists of Cartridge, Ball M33 and Cartridge, Tracer M17 linked 4-to-1 with the M9 link for use in either Machine Gun M2 or M3. 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 2006/2007 procurements support annual training and build a war reserve inventory in accordance with the Army's procurement goals.

**TYPE CLASSIFICATION DATE:** 1968
### AMMO Cost Analysis

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

**Weapon System Type:**

**Line Item Nomenclature:**

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<th>Contract Method and Type</th>
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<th>Date Revn Avail</th>
<th>RFP Issue Date</th>
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| FY 2004 # | POONGSAN METAL CO PUSAN, SOUTH KOREA | C/FP | ROCK ISLAND, IL | OCT-04 | MAR-05 | 18442 | 1.71 |
| FY 2005 | ALLIANT TECH (LCAAP) INDEPENDENCE, MO | SS/FP | ROCK ISLAND, IL | NOV-04 | OCT-05 | 25975 | 1.84 Y |
| FY 2006 | ALLIANT TECH (LCAAP) INDEPENDENCE, MO | C/FP | ROCK ISLAND, IL | JAN-06 | OCT-06 | 34507 | 1.95 Y |
| FY 2007 | ALLIANT TECH (LCAAP) INDEPENDENCE, MO | C/FP | ROCK ISLAND, IL | JAN-07 | OCT-07 | 35772 | 2.03 Y |
| BOX METAL M2A1
| FY 2004 | BROCKWAY STANDARD HOMERVILLE, GA | C/FP | ROCK ISLAND, IL | MAR-04 | SEP-04 | 74 | 7.47 |
| FY 2005 | TO BE SELECTED | C/FP | ROCK ISLAND, IL | APR-05 | JUL-05 | 265 | 7.48 Y |
| FY 2006 | TO BE SELECTED | C/FP | ROCK ISLAND, IL | JAN-06 | JUL-06 | 352 | 7.17 Y |
| FY 2007 | TO BE SELECTED | C/FP | ROCK ISLAND, IL | JAN-07 | JUL-07 | 365 | 7.30 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 Single Manager for Conventional Ammunition (SMCA) requirements.

# Weighted unit costs across multiple producers.
**FY 05 / 06 BUDGET PRODUCTION SCHEDULE**

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**COST ELEMENTS**

**LOAD, ASSEMBLE, PACK**

|     |      |       |                 |                      |                     |     |                 |     |               |

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**EXHIBIT P-21**

CTG CAL .50 4 BALL/1 TRACER W/M9 LINK
# FY 07 / 08 BUDGET PRODUCTION SCHEDULE

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

**Date:**
February 2005

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## Production Schedule

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  - FY 04 P: 0.00 to 5.99
  - FY 04 A: 18.40
  - FY 05 A: 26.00
  - FY 06 A: 34.50
  - FY 07 A: 35.80
  - FY 04 P AF: 0.85
  - FY 05 AF: 2.38
  - FY 07 AF: 0.05
  - FY 04 P CG: 0.45
  - FY 05 CG: 0.45
  - FY 06 CG: 0.50
  - FY 07 CG: 0.35
  - FY 04 P NS: 0.29
  - FY 04 NS: 0.25
  - FY 06 NS: 2.00
  - FY 07 NS: 0.20

### Remarks
- **1 ALLIANT (LCAAP), MO**
  - Initial: 6
  - Reorder: 4
  - Total: 9
- **2 POONGSAN METAL, S.KOREA**
  - Initial: 6
  - Reorder: 4
  - Total: 9
### 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)

**Date:** February 2005

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**Description:**
The M1A1 is a blank cartridge with a rosette crimp at the mouth and is linked in 100-round belts using the M9 link. This round is 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 2006/2007 procurements support annual training and build a depot level in accordance with the Army's procurement goals.

**TYPE CLASSIFICATION DATE:** 1980
### AMMO Cost Analysis

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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 Single Manager for Conventional Ammunition (SMCA) requirements.
## FY 05 / 06 BUDGET PRODUCTION SCHEDULE

**P-1 Item Nomenclature:** CTG CAL .50 BLANK M1A1 LKD W/M9 LINK F/M (E07302)  
**Date:** February 2005

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### Remarks
- .50 CAL ITEMS ARE PRODUCED ON THE SAME PRODUCTION LINES, LEADTIMES CONSISTENT AT THE ALL TYPES LEVEL.
## FY 07 / 08 BUDGET PRODUCTION SCHEDULE

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**.50 CAL ITEMS ARE PRODUCED ON THE SAME PRODUCTION LINES, LEADTIMES CONSISTENT AT THE ALL TYPES LEVEL.**

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**E08000 (E07302)**

CTG CAL .50 BLANK M1A1 LKD W/M9 LINK F/M
**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-T: M962 (E99906)

**Date:** February 2005

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**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, designed to break up at the muzzle to release the penetrator. The penetrator base is cored out to accommodate a trace 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 2006/2007 procurements support annual training and build 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:** March 1993.
### Exhibit P-5, Weapon AMMO Cost Analysis

**Procurement of Ammunition, Army / 1 / Ammunition**

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

**February 2005**

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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:**
Procurement of Ammunition, Army / 1 / Ammunition

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

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Award Date
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QTY x1000
Unit Cost \$
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Date Revun Avail
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## FY 08 / 09 BUDGET PRODUCTION SCHEDULE

**Ctg, Cal .50 SLAP-T: M962**

### Item Nomenclature:

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

### Date:

February 2005

### Fiscal Year 08 Production Schedule

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#### Lead, Assemble, Pack (LAP)

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### Fiscal Year 09 Production Schedule

#### Fiscal Year 08

- **Calendar Year 08**
  - Production Rates
  - ADMIN/LEAD TIME
  - MFR Number
  - Remarks:

### Fiscal Year 09

- **Calendar Year 09**
  - Production Rates
  - ADMIN/LEAD TIME
  - MFR Number
  - Remarks:

**Remarks:**

*Item No. 4 Page 27 of 38*
Exhibit P-40, Budget Item Justification Sheet

Date: February 2005

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

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

Program Elements for Code B Items:

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Description:
This round is used in the M2 Machine Gun. The Grade B MK211 will be linked in a 4:1 ratio with the caliber .50 M20 Armor Piercing Incendiary Tracer Cartridge. The cartridge provides improved penetration performance against light armor vehicles and personnel. 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 training standard item used in both training and combat. FY 2006/2007 procurements support annual training and build a war reserve inventory in accordance with the Army's procurement goals.

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

**Procurement of Ammunition, Army / 1 / Ammunition**

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

**Weapon System Type:**

**Date:**

February 2005

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Exhibit P-5a, Budget Procurement History and Planning

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REMARKS:
## FY 05 / 06 BUDGET PRODUCTION SCHEDULE

**Ctg cal .50 API, MK211, MOD 0, Lkd 4/1**  
February 2005

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Total: 9.24, 1.27, 7.97

**Fiscal Year 05**

**Calendar Year 05**

**Fiscal Year 06**

**Calendar Year 06**

**MFR**

- **NAME/LOCATION**: ALLIANT (LCAAP), MO
- **MIN.**: 0.00
- **1.5**: 0.14
- **MAX.**: 0.50
- **D+:** 6

**MFR Number**: 1

**ADMIN LEAD TIME**: 
- **Prior 1 Oct**: 6
- **After 1 Oct**: 4

**MFR TOTAL**: 
- **Prior 1 Oct**: 6
- **After 1 Oct**: 9

**REMARKS**: 
- **INITIAL**: 13
- **REORDER**: 13
- **INITIAL**: 9
- **REORDER**: 9
- **INITIAL**: 9
- **REORDER**: 9

**E08000 (F47400)**

**Item No. 4 Page 31 of 38**

**Exhibit P-21**

**Production Schedule**
### FY 07 / 08 BUDGET PRODUCTION SCHEDULE

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**Fiscal Year 07**

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**Remarks**

- MFR: Manufacturer
- FY: Fiscal Year
- SERV: Service
- PROC QTY: Process Quantity
- ACCEP PRIOR TO 1 OCT: Acceptance Prior to 1 Oct
- BAL DUE AS OF 1 OCT: Balance Due As Of 1 Oct
- MFR NAME/LOCATION: Manufacturer Name/Location
- MFR ADMIN LEAD TIME: Manufacturer Administration Lead Time
- MFR TOTAL: Manufacturer Total
- REMARKS: Remarks

---

E08000 (F47400)
Ctg cal .50 API, MK211, MOD 0, Lkd 4/1

Item No. 4  Page 32 of 38  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 CAL .50 SLAP M903 (SLAPT M962) (F88000)

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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 2006/2007 procurements support annual training and build 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
## AMMO Cost Analysis

**AMMUNITION HARDWARE**

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**PRODUCTION SUPPORT COSTS**

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**NONRECURRING COSTS**

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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:**
Procurement of Ammunition, Army / 1 / Ammunition

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**REMARKS:**
### FY 04 / 05 BUDGET PRODUCTION SCHEDULE

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

**Date:**
February 2005

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

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Ctg. Cal .50 SLAP (F88000) is produced on same line as Ctg. Cal .50 SLAP-T, M962 (E99906).
## FY 06 / 07 BUDGET PRODUCTION SCHEDULE

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#### Load, Assemble, Pack (LAP)

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**Total**

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**Remarks**

Ctg. Cal .50 SLAP (F88000) is produced on same line as Ctg. Cal .50 SLAP-T, M962 (E99906).
### FY 08 / 09 BUDGET PRODUCTION SCHEDULE

**Cost Elements**

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

- **Fiscal Year 08**
- **Calendar Year 08**
- **Fiscal Year 09**
- **Calendar Year 09**

**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, 25MM, ALL TYPES (E08200)

**Program Elements for Code B Items:**

<table>
<thead>
<tr>
<th>Code:</th>
<th>Other Related Program Elements:</th>
</tr>
</thead>
</table>

| Description: |
| This budget line includes 25MM ALL TYPES. |
### AMMO Cost Elements

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<th>ID CD</th>
<th>Total Cost FY 04</th>
<th>Qty FY 04</th>
<th>Unit Cost FY 04</th>
<th>Total Cost FY 05</th>
<th>Qty FY 05</th>
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<th>Qty FY 06</th>
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<th>Qty FY 07</th>
<th>Unit Cost FY 07</th>
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<tr>
<td>CTG 25MM TP-T M793</td>
<td>5722</td>
<td>433</td>
<td>13.23</td>
<td>7484</td>
<td>379</td>
<td>19.77</td>
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<td>827</td>
<td>19.93</td>
<td>16310</td>
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<td>CTG 25MM TPDS-T M910</td>
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**AMMO Cost Analysis**

- CTG, 25MM, ALL TYPES (E08200)
- Procurement of Ammunition, Army / 1 / Ammunition
- Date: February 2005

**Exhibit P-5, Weapon System Cost Analysis**
### 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 2006/2007 procurements support annual training and build a depot level in accordance with the Army's procurement goals.

**TYPE CLASSIFICATION DATE:** 1979

### Program Elements for Code B Items:

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<td>Plus CY Adv Proc</td>
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<td>Net Proc (P-1)</td>
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<td>Total Proc Cost</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 25MM TP-T M793 (E08203)

**Date:** February 2005

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**Item No. 5 Page 3 of 17**
## 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 TP-T M793 (E08203)  
Weapon System Type:  
Date: February 2005

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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 25MM TP-T M793 (E08203)

**P-1 Line Item Nomenclature:**
Procurement of Ammunition, Army / 1 / Ammunition

**LOAD, ASSEMBLE, PACK**

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<th>Location of PCO</th>
<th>Award Date</th>
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<th>QTY (x1000)</th>
<th>Unit Cost</th>
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<td>AUG-05</td>
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<td>MAY-06</td>
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**CONTAINER PA125 NEW PRODUCTION**

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**WOOD PALLET F/25MM**

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**REMARKS:** Award date extended due to change in acquisition strategy for FY06.
## FY 05 / 06 BUDGET PRODUCTION SCHEDULE

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<th>BAL DUE AS OF 1 OCT</th>
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### COST ELEMENTS

- LOAD, ASSEMBLE, PACK

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**Fiscal Year 05**

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| TOTAL | 6.01 | 1.72 | 4.29 | 0.17 | 0.13 | 0.08 | 0.10 | 0.07 | 0.12 | 0.20 | 0.16 | 0.26 | 0.18 | 0.02 | 0.22 | 0.22 | 0.13 | 2.25 |

**LAP LINES SHARED FOR EACH CONTRACTOR WITH OTHER 25MM ITEMS.**
## FY 07 / 08 BUDGET PRODUCTION SCHEDULE

### COST ELEMENTS

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1. GENERAL DYNAMICS, IL
2. To Be Selected
3. To Be Selected
4. ALLIANT TECH SYSTEMS, PLYMOUTH, MN

**LAP LINES SHARED FOR EACH CONTRACTOR WITH OTHER 25MM ITEMS.**
### Program Elements for Code B Items:

| Description: | The 25mm M919 is an Armor Piercing, Fin Stabilized, Discarding Sabot w/Tracer (APFSDS-T) cartridge, fired from the M242 Bushmaster automatic cannon mounted on the Army's M2/M3-series of Bradley Fighting Vehicles (BFV). The defeat mechanism of the M919 is a depleted uranium kinetic energy penetrator. The M919 is designed to defeat modern light armor vehicles (LAV). This item is Code A, approved for service use. |
| Justification: | This is a war reserve item used in combat. The M919 is the primary armor-piercing cartridge for use in the Bradley Fighting Vehicle. The M919 provides a significant increase in lethality when compared to its predecessor the M791 cartridge. The M919 cartridge is capable of defeating the hardest existing threat LAVs that the M791 is unable to defeat. For threats that the M791 has capability against the M919 provides a greater standoff, thus increasing battlefield survivability for the Bradley and accompanying infantry. This procurement will build a war reserve inventory of anti-armor cartridges in accordance with the Army's procurement goal. The M919 provides the soldier with the lethality needed to defeat the enemy, accomplish the BFV mission, and to survive on today's modern battlefield. |
| TYPE CLASSIFICATION DATE: | September 1993. |

### Description:

| Description: | The 25mm M919 is an Armor Piercing, Fin Stabilized, Discarding Sabot w/Tracer (APFSDS-T) cartridge, fired from the M242 Bushmaster automatic cannon mounted on the Army's M2/M3-series of Bradley Fighting Vehicles (BFV). The defeat mechanism of the M919 is a depleted uranium kinetic energy penetrator. The M919 is designed to defeat modern light armor vehicles (LAV). This item is Code A, approved for service use. |

### Justification:

| Description: | This is a war reserve item used in combat. The M919 is the primary armor-piercing cartridge for use in the Bradley Fighting Vehicle. The M919 provides a significant increase in lethality when compared to its predecessor the M791 cartridge. The M919 cartridge is capable of defeating the hardest existing threat LAVs that the M791 is unable to defeat. For threats that the M791 has capability against the M919 provides a greater standoff, thus increasing battlefield survivability for the Bradley and accompanying infantry. This procurement will build a war reserve inventory of anti-armor cartridges in accordance with the Army's procurement goal. The M919 provides the soldier with the lethality needed to defeat the enemy, accomplish the BFV mission, and to survive on today's modern battlefield. |

### TYPE CLASSIFICATION DATE: | September 1993. |
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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 25MM APFSDS-T M919 (E08210)

**P-1 Line Item Nomenclature:**
Complete Round

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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 $000</th>
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**REMARKS:**
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### FY 05 / 06 BUDGET PRODUCTION SCHEDULE

#### COST ELEMENTS

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#### Complete Round

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<th>D+</th>
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**Remarks:**
- FY 2003 deliveries include award of contract options with supplemental dollars.
**Description:**
The 25MM Armor Piercing (AP) training round is ballistically similar to the 25MM Cartridge Armor Piercing, Fin Stabilized Discarding Sabot-Tracer (APFSDS-T) M919. The M910E1 is used in gunnery training and qualification of the M2/M3 Bradley Fighting Vehicles. This item is Code B; not approved for service use.

**Justification:**
This is a training unique item not used in combat. FY 2006/2007 procurements support annual training and build a depot level in accordance with the Army's procurement goals. The M919 service cartridge contains a Depleted Uranium (DU) penetrator and is not used for training. The M919 and M791 service cartridges exceed the maximum range requirement for most training ranges. Bradley Fighting Vehicle crews cannot obtain meaningful training without this round.

**TYPE CLASSIFICATION:** December 2005

---

### Program Elements for Code B Items:

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**Initial Spares**

- **Net Proc (P-1)**: 13.9 14.5 14.9 17.3 17.6 18.0 18.3 114.6

**Initial Spares**

- **Total Proc Cost**: 13.9 14.5 14.9 17.3 17.6 18.0 18.3 114.6

**Initial Spares**

- **Flyaway U/C**: 13.9 14.5 14.9 17.3 17.6 18.0 18.3 114.6

**Initial Spares**

- **Wpn Sys Proc U/C**: 13.9 14.5 14.9 17.3 17.6 18.0 18.3 114.6

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### AMMO Cost Analysis

**Weapon System Type:** Ctg, 25mm, TP-T: M910E1

**Date:** February 2005

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**REMARKS:** FY06/07 procurements will be a split buy between two producers.

# Weighted unit cost across multiple producers.
### FY 05 / 06 BUDGET PRODUCTION SCHEDULE

**P-1 Item Nomenclature:**
Ctg. 25mm, TP-T: M910E1 (E08211)  
**Date:** February 2005

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**Total**

1620

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**MFR**

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**REMARKS**

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## FY 07 / 08 BUDGET PRODUCTION SCHEDULE

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**Total:** 1620 487 1133

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   - MAY 27 27 27 27 27 27 27 27 27 27
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   - JUL 27 27 27 27 27 27 27 27 27 27
   - AUG 27 27 27 27 27 27 27 27 27 27
   - SEP 27 27 27 27 27 27 27 27 27 27
   - OCT 27 27 27 27 27 27 27 27 27 27
   - NOV 27 27 27 27 27 27 27 27 27 27
   - DEC 27 27 27 27 27 27 27 27 27 27

2. FY 06
   - A 276 27 249
   - OCT 27 27 27 28 28 28 28 28 28 28
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   - FEB 27 27 27 28 28 28 28 28 28 28
   - MAR 27 27 27 28 28 28 28 28 28 28
   - APR 27 27 27 28 28 28 28 28 28 28
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   - NOV 27 27 27 28 28 28 28 28 28 28
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3. FY 07
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   - DEC 23 23 23 23 23 23 23 23 23 23
   - FEB 23 23 23 23 23 23 23 23 23 23
   - MAR 23 23 23 23 23 23 23 23 23 23
   - APR 23 23 23 23 23 23 23 23 23 23
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   - JUL 23 23 23 23 23 23 23 23 23 23
   - AUG 23 23 23 23 23 23 23 23 23 23
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4. FY 07
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   - MAR 35 35 35 35 35 35 35 35 35 35
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   - AUG 35 35 35 35 35 35 35 35 35 35
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   - OCT 35 35 35 35 35 35 35 35 35 35
   - NOV 35 35 35 35 35 35 35 35 35 35
   - DEC 35 35 35 35 35 35 35 35 35 35

**Total:** 1620 487 1133

**Note:**

- **FY 07** refers to fiscal year 2007.
- **FY 08** refers to fiscal year 2008.
- **Calendar Year 07** refers to calendar year 2007.
- **Calendar Year 08** refers to calendar year 2008.

**Production Rates**

1. **ATK, Plymouth, MN**
   - MIN: .26
   - 1-8.5: .26
   - MAX: .75
   - D+: 0
   - INITIAL: 3
   - REORDER: 4
   - REMARKS: 8

2. **TO BE SELECTED**
   - MIN: .33
   - 1-8.5: .33
   - MAX: .94
   - D+: 0
   - INITIAL: 3
   - REORDER: 4
   - REMARKS: 8

**Exhibit P-21**

**Production Schedule**

**Item No. 5 Page 16 of 17**

E08200 (E08211)
Ctg, 25mm, TP-T: M910E1
## FY 09 / 10 BUDGET PRODUCTION SCHEDULE

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### Summary

- Total 1620
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- Total 0
- Total 0

**Remark:** -248
**Exhibit P-40, Budget Item Justification Sheet**

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

**Date:** February 2005

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

**Program Elements for Code B Items:**

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

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**Description:**

This budget line includes 30MM ALL TYPES.
## AMMO Cost Analysis

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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 2006/2007 procurements support annual training and build a depot level in accordance with the Army's procurement goals.

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REMARKS: # Weighted unit cost across multiple producers.
## FY 05 / 06 BUDGET PRODUCTION SCHEDULE

**P-1 Item Nomenclature:**
CTG 30MM TP M788 (E10100)  
**Date:** February 2005

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**LAP LINE SHARED WITH OTHER 30MM ITEMS. AWARD DATE EXTENDED DUE TO CHANGE IN FY 06 ACQUISITION STRATEGY.**

---

**FY 07 / 08 BUDGET PRODUCTION SCHEDULE**

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**Complete Round**

|   | FY 04 | A | 0.68 | 0.68 | 0.00 | 0  |   |         |
|   | FY 05 | A | 0.32 | 0.32 | 0.00 | 0  |   |         |
|   | FY 06 | A | 0.53 | 0.53 | 0.00 | 0  |   |         |
|   | FY 07 | A | 0.96 | 0.96 | 0.00 | 0  |   |         |

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LAP LINE SHARED WITH OTHER 30MM ITEMS. AWARD DATE EXTENDED DUE TO CHANGE IN FY 06 ACQUISITION STRATEGY.

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**Description:**
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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 training standard item used in both training and combat. FY 2006/2007 procurements support annual training and build a war reserve inventory in accordance with the Army's procurement goals. This is a systems buy beginning in FY 2005.

**TYPE CLASSIFICATION DATE:** 1971
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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 40MM HEDP M430 F/MK19 MG (E11800)  
**P-1 Line Item Nomenclature:** Procurement of Ammunition, Army / 1 / Ammunition  
**CTG 40MM HEDP M430 F/MK19 MG (E11800)**

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**REMARKS:**  
* Government Furnished Material

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ER8001 (E11800)  
CTG 40MM HEDP M430 F/MK19 MG  
Item No. 7  Page 5 of 29  
Exhibit P-5a  
Procurement History and Planning
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REMARKS: * Government Furnished Material
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**Load, Assemble, Pack**

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## FY 07 / 08 Budget Production Schedule

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#### Lead, Assemble, Pack

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#### Remarks

FY 2006-2007 reflects the deliveries from the systems contractor. Production rates apply to individual producers.
### 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)

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<td><strong>Procurement of Ammunition, Army /1/Ammunition</strong></td>
<td><strong>CTG 40MM WHITE STAR PARA M583 (E12000)</strong></td>
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<tr>
<td><strong>Description:</strong></td>
<td><strong>Justification:</strong></td>
<td><strong>TYPE CLASSIFICATION DATE:</strong></td>
</tr>
<tr>
<td>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 and M203 single shot launchers. This item is Code A, approved for service use.</td>
<td>This is a training standard item used in both training and combat. FY 2006/2007 procurements support annual training and build a war reserve inventory in accordance with the Army's procurement goals. This is a systems buy beginning in FY 2005.</td>
<td>1985</td>
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<td><strong>Gross Cost</strong></td>
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**Date:** February 2005

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ER8001 (E12000)
CTG 40MM WHITE STAR PARA M583

Item No. 7 Page 9 of 29
Exhibit P-40
Budget Item Justification Sheet
## AMMO Cost Analysis

### AMMUNITION HARDWARE

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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 40MM WHITE STAR PARA M583 (E12000)

**P-1 Line Item Nomenclature:**
Procurement of Ammunition, Army / 1 / Ammunition

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<th>Location of PCO</th>
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**REMARKS:** # Weighted unit cost across multiple producers.
**FY 05 / 06 BUDGET PRODUCTION SCHEDULE**

**P-1 Item Nomenclature:**
CTG 40MM WHITE STAR PARA M583 (E12000)  February 2005  

**FY 05 / 06 BUDGET PRODUCTION SCHEDULE**

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**MFR Number**
- 1: INITIAL
- 2: REORDER
- 3: INITIAL
- 4: INITIAL
- 5: INITIAL
- 6: INITIAL

**ADMIN/LEAD TIME**
- Prior 1 Oct: 6
- After 1 Oct: 6
- REMARKS

**MFR TOTAL**
- After 1 Oct: 13
- REMARKS

**MFR Number**
- 1: INITIAL
- 2: REORDER
- 3: INITIAL
- 4: INITIAL
- 5: INITIAL
- 6: INITIAL

**REMARKS**
- FY 2006-2007 REFLECTS THE DELIVERIES FROM THE SYSTEMS CONTRACTOR. PRODUCTION RATES APPLY TO INDIVIDUAL PRODUCERS.

**ER8001 (E12000)**
CTG 40MM WHITE STAR PARA M583
## FY 07 / 08 BUDGET PRODUCTION SCHEDULE

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**Total:** 1620.00

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**Total:** 1620.00

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**FY 2006-2007 reflects the deliveries from the systems contractor. Production rates apply to individual producers.**
## FY 09 / 10 BUDGET PRODUCTION SCHEDULE

**Item Nomenclature:** CTG 40MM WHITE STAR PARA M583 (E12000)

**Date:** February 2005

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Total: 1620.00 1492.00 128.00

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**Load, Assemble, Pack**

Total: 101.00

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FY 006-2007 reflects the deliveries from the systems contractor. Production rates apply to individual producers.
**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 2006/2007 procurements support annual training and build 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. This is a systems buy beginning in FY 2005.

**TYPE CLASSIFICATION DATE:** 1985
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CTG 40MM TP M918 LINKED F/MK19 MG

ER8001 (E71100)  
Item No. 7  Page 16 of 29  
Weapon System Cost Analysis
## Exhibit P-5a, Budget Procurement History and Planning

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

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

**Weapon System Type:**
CTG 40MM TP M918 LINKED F/MK19 MG (E71100)

**P-1 Line Item Nomenclature:**
Procurement of Ammunition, Army / 1 / Ammunition

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### REMARKS:

ER8001 (E71100)
CTG 40MM TP M918 LINKED F/MK19 MG

Item No. 7  Page 17 of 29

Exhibit P-5a
Procurement History and Planning
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### FY 07 / 08 BUDGET PRODUCTION SCHEDULE

#### COST ELEMENTS

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<tr>
<th>MFR</th>
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### Remarks

FY 2006/2007 reflects the deliveries from the systems contractor. Production rates apply to individual producers.
## FY 09 / 10 Budget Production Schedule

### COST ELEMENTS

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<td>FY 06</td>
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<td>FY 07</td>
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<td>FY 05</td>
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**Total**

|     |     | 21.29 | 18.79 | 2.50 |

### Production Rates

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### Remarks

- FY 2006/2007 reflects the deliveries from the systems contractor. Production rates apply to individual producers.
**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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<tr>
<th>Description</th>
<th>Code: A</th>
<th>Other Related Program Elements:</th>
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<tbody>
<tr>
<td>Description:</td>
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<tr>
<td>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.</td>
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</table>

| Justification: | |
| This is a training unique item not used in combat. FY 2006/2007 procurements support annual training and build a depot level in accordance with the Army's procurement goals. This is a systems buy beginning in FY 2005. |

**TYPE CLASSIFICATION DATE:** 1978
### 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:**
- CTG 40MM PRACTICE M781 (E74200)

**P-1 Line Item Nomenclature:**
- Procurement of Ammunition, Army / 1 / Ammunition

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<th>Location of PCO</th>
<th>Award Date</th>
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**REMARKS:** # Weighted unit cost across multiple producers.
## FY 05 / 06 BUDGET PRODUCTION SCHEDULE

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**COST ELEMENTS**

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<th>PROC</th>
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**Production Rates**

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**Exhibit P-21**

Production Schedule
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**Remarks**

FY 2006/2007 reflects the deliveries from the systems contractor. Production rates apply to individual producers.
**FY 07 / 08 BUDGET PRODUCTION SCHEDULE**

**COST ELEMENTS**

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**Calendar Year 07**

| Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |

**Calendar Year 08**

| Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |

**FY 2006/2007 REFLECTS THE DELIVERIES FROM THE SYSTEMS CONTRACTOR. PRODUCTION RATES APPLY TO INDIVIDUAL PRODUCERS.**

**MFR Number**

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**Remarks**

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ER8001 (E74200)  CTG 40MM PRACTICE M781  Item No. 7  Page 27 of 29  Exhibit P-1  Production Schedule
**FY 09 / 10 BUDGET PRODUCTION SCHEDULE**

**COST ELEMENTS**

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**Complete Round**

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**Production Rates**

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**Fiscal Year 09**

- **OCT**: October
- **NOV**: November
- **DEC**: December
- **JAN**: January
- **FEB**: February
- **MAR**: March
- **APR**: April
- **MAY**: May
- **JUN**: June
- **JUL**: July
- **AUG**: August
- **SEP**: September
- **OCT**: October
- **NOV**: November
- **DEC**: December
- **JAN**: January
- **FEB**: February
- **MAR**: March
- **APR**: April
- **MAY**: May
- **JUN**: June
- **JUL**: July
- **AUG**: August
- **SEP**: September

**Fiscal Year 10**

- **OCT**: October
- **NOV**: November
- **DEC**: December
- **JAN**: January
- **FEB**: February
- **MAR**: March
- **APR**: April
- **MAY**: May
- **JUN**: June
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**Calendar Year 09**

- **OCT**: October
- **NOV**: November
- **DEC**: December
- **JAN**: January
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- **MAR**: March
- **APR**: April
- **MAY**: May
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**Calendar Year 10**

- **OCT**: October
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- **DEC**: December
- **JAN**: January
- **FEB**: February
- **MAR**: March
- **APR**: April
- **MAY**: May
- **JUN**: June
- **JUL**: July
- **AUG**: August
- **SEP**: September

**MFR** indicates the production rate for each item.
## FY 09 / 10 BUDGET PRODUCTION SCHEDULE

### COST ELEMENTS

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#### Calendar Year 09

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#### Calendar Year 10

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### Remarks

- FY 2006/2007 reflects the deliveries from the Systems Contractor.
- Production rates apply to individual producers.

---

**Exhibit P-21**

ER8001 (E74200)

CTG 40MM PRACTICE M781
Appropriation/Budget Activity/Serial No: Procurement of Ammunition, Army
P-1 Item Nomenclature 60MM MORTAR, ALL TYPES (E89600)

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<td>Plus CY Adv Proc</td>
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<td>Wpn Sys Proc U/C</td>
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Description:
This line includes 60mm Mortar Ammunition, All Types.

The FY 2005 funding includes a Congressional plus-up of $1.3 million for the M768, HE with PD Fuze.
## AMMO Cost Analysis

### AMMO Cost Elements

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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 depot level in accordance with the Army's procurement goals. Use of the M769 will reduce training costs and environmental impacts.

### TYPE CLASSIFICATION DATE: TC Standard Sep 2001
## AMMO Cost Analysis

### AMMUNITION HARDWARE

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- **SubTotal AMMO Hardware:** 8819

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- **SubTotal Prod. Support:** 2696
### 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, 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.

---

**Date:** February 2005
### FY 04 / 05 BUDGET PRODUCTION SCHEDULE

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

**Date:**
February 2005

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**Load, Assemble, and Pack**

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   - A 99 0 99
   - 9 10 11 9 10 10 40

1. **FY 05**
   - A 74 0 74

**Total**

- 173 173

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**Exhibit P-21**
Production Schedule
# FY 06 / 07 Budget Production Schedule

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**Load, Assemble, and Pack**

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**Total**

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## FY 08 / 09 BUDGET PRODUCTION SCHEDULE

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### Production Rates

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### Remarks

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

**Date:** February 2005

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

**P-1 Item Nomenclature**

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

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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 is used in both training and war reserve. FY 2006/2007 procurements support annual training requirements and build war reserve inventory in accordance with the Army's procurement goals.

**TYPE CLASSIFICATION DATE:** Nov 2001.

FY 2005 funding includes a Congressional plus-up of $1.3 million.
## 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:**
CTG MORTAR 60MM HE M768 W/M783PD FUZE

**P-1 Line Item Nomenclature:**

### Load, Assemble, and Pack

| FY 2004 | Day & Zimmerman Parsons, KS | SS/Option | Picatinny Arsenal, NJ | Jun 04 | Mar 07 | 41 | 50 | Yes |
| FY 2005 | Day & Zimmerman Parsons, KS | SS/Option | Picatinny Arsenal, NJ | Mar 05 | Oct 07 | 68 | 41 | Yes |
| FY 2006 | Day & Zimmerman Parsons, KS | SS/Option | Picatinny Arsenal, NJ | Mar 06 | May 08 | 30 | 42 | Yes |
| FY 2007 | To Be Selected | C/FP | Picatinny Arsenal, NJ | Mar 07 | Aug 08 | 23 | 45 | Yes |

### Shell Body HF1

| FY 2004 | Medico Industries Inc Scranton, PA | SS/Option | Picatinny Arsenal, NJ | Mar 04 | Oct 04 | 42 | 48 | Yes |
| FY 2005 | Medico Industries Inc Scranton, PA | SS/Option | Picatinny Arsenal, NJ | Mar 05 | Oct 05 | 70 | 41 | Yes |
| FY 2006 | To Be Selected | C/FP | Picatinny Arsenal, NJ | May 06 | Apr 07 | 31 | 43 | Yes |
| FY 2007 | To Be Selected | C/FP | Picatinny Arsenal, NJ | May 07 | Apr 08 | 23 | 46 | Yes |

### Fuze, Point Detonating, M783

| FY 2004 | L3-KDI Cincinnati, OH | SS/Option | Picatinny Arsenal, NJ | Mar 04 | Mar 05 | 42 | 135 | Yes |
| FY 2005 | L3-KDI Cincinnati, OH | SS/Option | Picatinny Arsenal, NJ | Mar 05 | Mar 06 | 70 | 132 | Yes |
| FY 2006 | L3-KDI Cincinnati, OH | SS/Option | Picatinny Arsenal, NJ | Mar 06 | Mar 07 | 31 | 125 | Yes |
| FY 2007 | L3-KDI Cincinnati, OH | SS/Option | Picatinny Arsenal, NJ | Mar 07 | Mar 08 | 23 | 132 | Yes |

**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.
### Ignition Cartridge M702

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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.
## FY 06 / 07 BUDGET PRODUCTION SCHEDULE

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### Production Schedule

Production is alternated between the M720A1 and M768.

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E89600 (E92900)
CTG MORTAR 60MM HE M768 W/M783PD FUZE
# Fiscal Year 08 Production Schedule

**Product:** CTG MORTAR 60MM HE M768 W/M783 PD FUZE (E92900)

**Date:** February 2005

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Production is alternated between the M720A1 and M768.

**Load, Assemble, and Pack**

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Production is alternated between the M720A1 and M768.
### 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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**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 2006/2007 procurements support annual training and build a war reserve inventory in accordance with the Army's procurement goals.

**TYPE CLASSIFICATION DATE:** Standard Nov 01
### AMMO Cost Analysis

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

**Procurement of Ammunition, Army / 1 / Ammunition**

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

**Date:** February 2005
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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.
### 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:**
Procurement of Ammunition, Army / 1 / Ammunition

**WBS Cost Elements:**
Contractor and Location | Contract Method and Type | Location of PCO | Award Date | Date of First Delivery | QTY x1000 | Unit Cost | Specs Avail Now? | Date Rev/PSc | RFP Issue Date
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Ignition Cartridge M702

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  - C/FP
  - Picatinny Arsenal, NJ
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  - Oct 04
  - 25
  - 18
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**FY 2005**
- Pocal Industries
  - Moscow, PA
  - SS/Option
  - Picatinny Arsenal, NJ
  - Feb 05
  - Oct 05
  - 12
  - 19
  - Yes

**FY 2006**
- Pocal Industries
  - Moscow, PA
  - SS/Option
  - Picatinny Arsenal, NJ
  - Feb 06
  - Oct 06
  - 3
  - 20
  - Yes

**FY 2007**
- Pocal Industries
  - Moscow, PA
  - SS/Option
  - Picatinny Arsenal, NJ
  - Feb 07
  - Oct 07
  - 3
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Propelling Charge M235

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  - Dec 05
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**FY 2005**
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  - Picatinny Arsenal, NJ
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  - Dec 05
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**FY 2006**
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  - SS/Option
  - Picatinny Arsenal, NJ
  - Mar 06
  - Dec 06
  - 11
  - 7
  - Yes

**FY 2007**
- To Be Selected
  - SS/Option
  - Picatinny Arsenal, NJ
  - Mar 07
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  - 11
  - 7
  - Yes

Fin Assembly M27

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  - Yes

**FY 2007**
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  - SS/Option
  - Picatinny Arsenal, NJ
  - Mar 07
  - Mar 08
  - 3
  - 6
  - Yes

**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.
### FY 06 / 07 BUDGET PRODUCTION SCHEDULE

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

**Date:**
February 2005

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#### Production

Production is alternated between the M720A1 and M768. These programs are produced within the funded delivery period.

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E89600 (E93900)  
CTG, MORTAR, 60MM HE, M720A1 w/M734A1 MO FUZE

Item No. 8  Page 19 of 20
Exhibit P-21  
Production Schedule
**FY 08 / 09 BUDGET PRODUCTION SCHEDULE**

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**COST ELEMENTS**

- Production is alternated between the M720A1 and M768. These programs are produced within the funded-delivery period.

**Remarks**

Production is alternated between the M720A1 and M768. These programs are produced within the funded-delivery period.
**Program Elements for Code B Items:**

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**Description:**

This includes 81mm Mortar Ammunition, All Types. FY 2006 funding includes three new starts for the Cartridge, Mortar, 81mm, HE M821 w/MO Fuze; Cartridge, 81mm, M889 IUK w/M935 PD Fuze; and Cartridge, 81mm Improved Training Full Range XM879.

The FY 2005 funding includes a Congressional plus-up of $1.0 million for the M816, Infrared Illuminating Cartridge.
### AMMO Cost Analysis

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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 brigades 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 2006/2007 procurements support annual training and build a war reserve inventory in accordance with the Army's procurement goals.

**TYPE CLASSIFICATION DATE:** July 1991
**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/MO FUZE (E18403)

Weapon System Type: CTG MORTAR 81MM HE M821 W/MO FUZE

Date: February 2005

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Total: 22869 631 22070 585
### Exhibit P-5a, Budget Procurement History and Planning

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

**Weapon System Type:**
CTG MORTAR 81MM HE M821 W/NO FUZE (E18403)

**P-1 Line Item Nomenclature:**
CTG MORTAR 81MM HE M821 W/NO FUZE (E18403)

**WBS Cost Elements:**
Contractor and Location | Contract Method and Type | Location of PCO | Award Date | QTY | Unit Cost | Specs | Date Reu | RFP Issue Date
--- | --- | --- | --- | --- | --- | --- | --- | ---
Complete Round
FY 2006 | To Be Selected | C/FP | Picatinny, NJ | Jun 06 | Jul 07 | 36 | 517 | Yes |  
FY 2007 | To Be Selected | SS/Option | Picatinny, NJ | Dec 06 | Jun 08 | 38 | 528 | Yes |  

**REMARKS:**
Current acquisition strategy/plan is to combine this round with the procurement of the M889A1, 81mm HE w/Point Detonating Fuze and the M879, 81mm Full Range Practice round.
## Fiscal Year 06

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- Production is alternated between the M821A1, M889A1, and M879.
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Calendar Year 08

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Annual Production Schedule

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| 1   | To be Selected |       |       |       |     | INITIAL |      |       | Production is alternated between the M821A1, M889A1, and M879.

1. John Doe | 5.00 | 15.00 | 25.00 | 0   | INITIAL | 6   | 4     | 18    | 22    |
2. Jane Smith |       |       |       |     | REORDER | 3   | 3     | 18    | 21    |
3. Michael Brown |       |       |       |     | INITIAL |      |       |       |       |
4. Emily Lee |       |       |       |     | REORDER |      |       |       |       |
5. David Johnson |       |       |       |     | INITIAL |      |       |       |       |
6. Sarah Davis |       |       |       |     | REORDER |      |       |       |       |
7. Richard Wilson |       |       |       |     | INITIAL |      |       |       |       |
8. Olivia Jones |       |       |       |     | REORDER |      |       |       |       |
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 Brigades, 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 2006/2007 procurements support annual training and build a war reserve inventory in accordance with the Army's procurement goals.

TYPE CLASSIFICATION DATE: July 1991
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
- **P-1 Line Item Nomenclature:** CARTRIDGE 81MM M889 IUK W/M935 PD FUZE (E18404)

**WBS Cost Elements:**

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**REMARKS:** Current acquisition strategy/plan is to combine this round with the procurement of the M821A1, 81mm HE w/multi-option fuze and the M879, 81mm Full Range Practice round. The contract is planned to be a system buy which will include all component hardware.
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Total 10 15 15 47

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| 1   | To Be Selected | 5.00 15.00 25.00 | 0       | INITIAL | 6 4 18 22 | 87 87 | Production is alternated between the M821A1, M889A1, and M879.

Production Schedule
### FY 08 / 09 BUDGET PRODUCTION SCHEDULE

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

**Date:** February 2005

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**COST ELEMENTS**

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|       |       |       |          |          |                     |               |
| 1     | FY 06 | A     | 60       | 0        | 20                  |                |
| 1     | FY 07 | A     | 27       | 0        | 27                  |                |

**Total**

|       |       |       |          |          |                     |               |
| 1     | FY 06 | A     | 87       | 40       | 47                  |                |
| 1     | FY 07 | A     |          |          |                     |                |

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**Production Rates**

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Production is alternated between the M821A1, M889A1, and M879.
### Description:
The M879 Full Range Practice Cartridge (FRPC) is a US-developed, improved practice round for use in the M252, improved 81mm, Mortar System. The practice cartridge provides realistic training in place of the M821A1/M889A1 High Explosive (HE) Cartridges. The M751 Point Detonating Practice Fuze simulates the M734 fuze and can be set, for training purposes, to the required fuze functioning mode for the fire mission. The M751 fuze used on this round detonates upon impact and produces a flash, bang, and smoke signature that gives the forward observer the ability to adjust fire. The M879 Full Range Practice Cartridge consists of a steel body with an inert concrete payload. This item is code A, approved for service use.

### Justification:
This is a training unique item. FY 2006/2007 procurements support annual training and build a depot level in accordance with the Army's procurement goals.

### TYPE CLASSIFICATION DATE: August 1986
### AMMO Cost Analysis

<table>
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<th>FY 06</th>
<th>FY 07</th>
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**Total**

27961 371 13364 397
## Exhibit P-5a, Budget Procurement History and Planning

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

**Weapon System Type:**
CARTRIDGE 81MM IMP TRNG FULL RANGE XM879 C48223 (E69600)

**P-1 Line Item Nomenclature:**
CARTRIDGE 81MM IMP TRNG FULL RANGE XM879 C48223 (E69600)

### Complete Round

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<th>Location of PCO</th>
<th>Award Date</th>
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<th>Specs Avail Now?</th>
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<td>331</td>
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**Remarks:** Current acquisition strategy/plan is to combine this round with the procurement of the M821A1, 81mm HE w/multi-option fuze; and the M889A1, 81mm HE w/Point Detonating Fuze. The contract is planned to be a system buy which will include all component hardware.
### FY 06 / 07 BUDGET PRODUCTION SCHEDULE

**P-1 Item Nomenclature:**
CARTRIDGE 81MM IMP TRNG FULL RANGE XM879 C48223 (E69600)

**Date:**
February 2005

#### COST ELEMENTS

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<th>ACCEP PRIOR TO 1 OCT</th>
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<th>ADMIN/LEAD TIME</th>
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<td>D+</td>
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<td>After 1 Oct</td>
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**Complete Round**

- **Fiscal Year 06**
  - A: 76
  - A: 0
  - A: 76

- **Fiscal Year 07**
  - A: 34
  - A: 0
  - A: 34

**Total**

- 110
- 110

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**Exhibit P-21**

Production Schedule
### FY 08 / 09 BUDGET PRODUCTION SCHEDULE

#### COST ELEMENTS

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**Production is alternated between the M821A1, M889A1, and M879.**

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

### Program Elements for Code B Items:

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<tr>
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<td>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 interim Brigade Combat Team (BCT). 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. It has been approved for service use.</td>
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<tr>
<td></td>
<td>Justification:</td>
</tr>
<tr>
<td></td>
<td>This is a training standard item used in both training and war reserve. FY 2006/2007 procurements support annual training and build a war reserve inventory in accordance with the Army's procurement goals.</td>
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E76000 (E76100)  
CTG, MORTAR, 81MM VISUAL LIGHT (VL) ILLUM M853A1

Item No. 9  Page 18 of 32
### AMMO Cost Analysis

#### AMMUNITION HARDWARE

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**SubTotal AMMO Hardware**

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1231

2146

**Production Support Costs**

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**SubTotal Prod. Support**

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624

759

**COST - Nonrecurring**

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**SubTotal COST - Nonrecurring**

457

-4

-4

**Total**

16266

18

2751

2901
# Exhibit P-5a, Budget Procurement History and Planning

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

**Weapon System Type:**
CTG, MORTAR, 81MM VISUAL LIGHT (VL) ILLUM M853A1 (E76100)

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**REMARKS:** * Government Furnished Material (GFM)
### Exhibit P-5a, Budget Procurement History and Planning

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

#### Weapon System Type:
- CTG, MORTAR, 81MM VISUAL LIGHT (VL) ILLUM M853A1

#### Line Item Nomenclature:
- Procurement of Ammunition, Army / 1 / Ammunition

#### WBS Cost Elements:

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#### Fuze, M772

| FY 2004                  |                |            |                        |           |           |                 |
| Stock Issue              | N/A            | N/A        | N/A                   | 1         | 35        | Yes             |
| FY 2006                  |                |            |                        |           |           |                 |
| Stock Issue              | N/A            | N/A        | N/A                   | 51        | Yes       |                 |
| FY 2007                  |                |            |                        |           |           |                 |
| Stock Issue              | N/A            | N/A        | N/A                   | 51        | Yes       |                 |

#### Fin Assy, M29

| FY 2004                  |                |            |                        |           |           |                 |
| Gayston Corp             | C/FP           | Rock Island, IL | SEP-04                | MAR-05    | 28        | 22              |
| Springboro, OH           |                |            |                        |           |           |                 |
| FY 2006                  |                |            |                        |           |           |                 |
| To Be Selected           | C/FP           | Rock Island, IL | JUL-06                | FEB-07    | 3         | 23              |
| FY 2007                  |                |            |                        |           |           |                 |
| To Be Selected           | SS/Option      | Rock Island, IL | JUL-07                | FEB-08    | 3         | 23              |

#### Illuminating Candle

| FY 2004                  |                |            |                        |           |           |                 |
| Crane AAA                | SS/FP          | Rock Island, IL | MAR-04                | DEC-05    | 28        | 114             |
| Crane, IN                |                |            |                        |           |           |                 |

#### Remarks:
- * Government Furnished Material (GFM)
### 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, MORTAR, 81MM VISUAL LIGHT (VL) ILLUM M853A1 (E76100)

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**REMARKS:** * Government Furnished Material (GFM)
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**Remarks**

- Load, Assemble, and Pack
| 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 new Stryker Brigades 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 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 2006/2007 procurements support annual training and build a war reserve inventory in accordance with the Army's procurement goals. |
| Type Classification Date: | September 2001 |
| FY 2005 funding includes a Congressional plus-up of $1.0 million. |
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### REMARKS:
## Exhibit P-5a, Budget Procurement History and Planning

### 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:
- Procurement of Ammunition, Army / 1 / Ammunition

### WBS Cost Elements:
- Contractor and Location
- Contract Method and Type
- Location of PCO
- Award Date
- Date of First Delivery
- QTY
- Unit Cost
- Specifications
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- E76000 (E90000)
- CTG, MORTAR, 81MM INFRARED (IR) ILLUM M816
- Item No. 9 Page 28 of 32
- Exhibit P-5a
- Procurement History and Planning
## Exhibit P-5a, Budget Procurement History and Planning

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

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

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**REMARKS:**

E76000 (E90000)
CTG, MORTAR, 81MM INFRARED (IR) ILLUM M816

Item No. 9  Page 29 of 32

Exhibit P-5a
Procurement History and Planning
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### Load, Assemble, and Pack

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**Exhibit P-21**

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

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**COST ELEMENTS**

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## FY 08 / 09 BUDGET PRODUCTION SCHEDULE

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#### Lead, Assemble, and Pack

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E76000 (E900000)  
CTG, MORTAR, 81MM INFRARED (IR) ILLUM M816  
Item No. 9  Page 32 of 32  
Production Schedule
### Description:
This budget line item includes 120mm Mortars, All Types.

The FY 2005 funding includes a Congressional plus-up of $1.8 million for the M930, Visual Light Illuminating Cartridge.
### AMMO Cost Analysis

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**Program Elements for Code B Items:**

| Description: | The M933 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 in the Army, 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 point detonating fuze, tail assembly, and projectile body with composition B explosive fill. 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 unique item not used in combat. FY 2006/2007 procurements support annual training and build a depot level in accordance with the Army's procurement goals. |
| Type Classification Date: | STD JUN 96. |

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## Exhibit P-5, Weapon AMMO Cost Analysis

**Procurement of Ammunition, Army / 1 / Ammunition**

**P-1 Line Item Nomenclature:**
CTG MORTAR 120MM HE M933A1 W/PD FUZE (E25502)

**Weapon System Type:**

**Date:** February 2005

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**Total**

| | FY 04 | FY 05 | FY 06 | FY 07 |
| | 14054 | 13668 | 16547 | 16435 |
Exhibit P-5a, Budget Procurement History and Planning

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| P-1 Line Item Nomenclature: |
| CTG MORTAR 120MM HE M933A1 W/PD FUZE (E25502) |

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REMARKS: FY06/FY07 acquisition strategy/plan is to combine this round with the procurement of the M934A2, 120mm HE w/multi-option fuze and the M931, 120mm Full Range Practice round.
# FY 06 / 07 BUDGET PRODUCTION SCHEDULE

**P-1 Item Nomenclature:**
CTG MORTAR 120MM HE M933A1 W/PD FUZE (E25502)

**Date:**
February 2005

## COST ELEMENTS

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

| MFR | FY   | QTY x1000 | ACCEP PRIOR TO 1 OCT | BAL DUE AS OF 1 OCT | O | N | D | E | C | J | A | N | F | E | R | M | A | P | R | A | M | Y | N | J | U | L | A | U | G | S | E | P |
|     |      |           |                      |                     |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |

| MFR | FY   | QTY x1000 | ACCEP PRIOR TO 1 OCT | BAL DUE AS OF 1 OCT | O | N | D | E | C | J | A | N | F | E | R | M | A | P | R | A | M | Y | N | J | U | L | A | U | G | S | E | P |
|     | FY 06 | 15 | 15 | 0 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|     | FY 07 | 14 | 0  | 14|   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |

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**Remarks:**
FY06/FY07 production will be alternated between the M934A2, M933, and M931.
### 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 Team. The round is used to illuminate targets during night operations. It consists of a 2-piece body filled with illuminating flare, M776 MTSQ fuze and tail assembly. It bursts over a target producing 1 million candela of illumination, which is more intense and effective than the 4.2” round that it replaces. 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 2006/2007 procurements support training and build war reserve inventory in accordance with the Army's procurement goals.

**Type Classification:** TCLP 3QFY98, STD 2QFY03

FY 2005 funding includes a Congressional plus-up of $1.8 million.
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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 VISUAL LIGHT ILLUM M930 W/MTSQ FZ  
**P-L Item Nomenclature:** E25503

## WBS Cost Elements:

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**REMARKS:** 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.
## 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 VISUAL LIGHT ILLUM M930 W/MTSQ FZ (E25503)

**P-1 Line Item Nomenclature:**

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**REMARKS:** 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.
## Exhibit P-5a, Budget Procurement History and Planning

**Weapon System Type:**

**P-1 Line Item Nomenclature:**

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**REMARKS:** 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.
# 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 VISUAL LIGHT ILLUM M930 W/MTSQ FZ (E25503)

## P-1 Line Item Nomenclature:
Procurement of Ammunition, Army / 1 / Ammunition

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**Remarks:**

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.
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### FY 04 / 05 BUDGET PRODUCTION SCHEDULE

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E25500 (E25503)
CTG MORTAR 120MM VISUAL LIGHT ILLUM M930 W/MTSQ FZ

Exhibit P-21
Production Schedule
# FY 06 / 07 Budget Production Schedule

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

**Date:**
February 2005

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**Total**
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- FY 07: 11

**Remarks**
- INITIAL
- REORDER

**MFR Number**
- INITIAL
- REORDER
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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 2006/2007 procurements support annual training and build a depot level in accordance with the Army's procurement goals.

### Type Classification Date: August 1996
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**Note:**
- The table above details the AMMO cost analysis for a specific weapon system. The costs are broken down into various categories such as AMMUNITION HARDWARE, Production Support Costs, and COST - Nonrecurring. Each category is further divided by fiscal years (FY 04, FY 05, FY 06, FY 07) and includes columns for total cost, quantity, and unit cost.
- The total cost for each fiscal year is calculated by multiplying the total cost by the quantity and then dividing by 1000 to get the unit cost.
- The overall total for each category is also provided.
## 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 PRACTICE, M931 (E25507)**

### P-1 Line Item Nomenclature:
- Procurement of Ammunition, Army / 1 / Ammunition

### WBS Cost Elements:

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### REMARKS:
- FY2006/FY2007 acquisition strategy/plan is to combine this round with the procurement of the M934A2, 120mm HE w/multi-option fuze and the M933, 120mm HE w/Point Detonating Fuze.
## FY 06 / 07 Budget Production Schedule

### Cost Elements

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### Fiscal Year 06

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<th>COST ELEMENTS</th>
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### Remarks

FY06/FY07 production will be alternated between the M934A2, M933, and M931.
## FY 08 / 09 BUDGET PRODUCTION SCHEDULE

### Fiscal Year 08

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<th>BAL DUE AS OF 1 OCT</th>
<th>MRT</th>
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<th>MFR TOTAL</th>
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<th>MRT</th>
<th>ADMIN LEAD TIME</th>
<th>MFR TOTAL</th>
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### Notes
- Complete Round
- FY06/FY07 production will be alternated between the M934A2, M933, and M931.

### Production Rates

**MFR NAME/LOCATION**

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<th>MAX.</th>
<th>D+</th>
<th>REACHED</th>
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**Remarks**
- FY06/FY07 production will be alternated between the M934A2, M933, and M931.
| Description: | The M929 White Phosphorous (WP) Smoke cartridge is designed for use with the M120/M121 120mm Battalion Mortar System, which is 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 Team. The round is used to provide smoke, with some incendiary effect, for various screening uses. It consists of a body with WP impregnated felt wedges, fuze, and tail assembly. The M929A1 uses the highly reliable and countermeasure resistant M734A1 multi-option fuze. The proximity setting bursts the round over a target, producing dense smoke, which is 100 percent greater than the 4.2-in smoke 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 2006/2007 procurements support annual training requirements and build war reserve inventory in accordance with the Army's procurement goals. |

| Type Classification Date: | JUN 96. |

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<th>Program Elements for Code B Items:</th>
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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>295</td>
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SubTotal AMMO Hardware: 5512 1244 1323

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SubTotal Prod. Support: 2562 1195 1222

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SubTotal Other: 24490

Total: 24490 8074 1261 2439 1696 2545 1707
## Exhibit P-5a, Budget Procurement History and Planning

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

### Load, Assemble, and Pack

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<th>Contractor and Location</th>
<th>Contract Method and Type</th>
<th>Location of PCO</th>
<th>Award Date</th>
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<th>Unit Cost $</th>
<th>Specs Avail Now?</th>
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### Shell Body

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### LAP Burster M86

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<td>18</td>
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### 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 HE and 120mm WP Smoke.
3. All 120mm mortar illumination and smoke rounds are LAP’d on the same line at Pine Bluff Arsenal. Continuity of the line is maintained by alternating LAPs.
## Exhibit P-5a, Budget Procurement History and Planning

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

### Weapon System Type:
CTG 120MM WP SMOKE M929A1 (E91300)

### P-1 Line Item Nomenclature:
Procurement of Ammunition, Army / 1 / Ammunition

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**REMARKS:**
1. 120mm Mortar Horizontal Component Integration (HCl) hardware are as follows: M1020 Ignition Cartridge, M234 Prop Charge, M31 Fin Assembly, PA 153 Fiber Container, and PA 154 Metal Container. HCl components are procured on the same contract.
2. The M734A1 fuze utilizes HCl and is common to the 60mm HE, 120mm HE and 120mm WP Smoke.
3. All 120mm mortar illumination and smoke rounds are LAP'd on the same line at Pine Bluff Arsenal. Continuity of the line is maintained by alternating LAPs.
### Exhibit P-5a, Budget Procurement History and Planning

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**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 HE and 120mm WP Smoke.
3. All 120mm mortar illumination and smoke rounds are LAP'd on the same line at Pine Bluff Arsenal. Continuity of the line is maintained by alternating LAPs.
## FY 04 / 05 BUDGET PRODUCTION SCHEDULE

**P-1 Item Nomenclature:**
CTG 120MM WP SMOKE M929A1 (E91300)

**Date:** February 2005

### COST ELEMENTS

| MFR | FY       | SEC | QTY x1000 | ACCEP PRIOR TO 1 OCT | BAL DUE AS OF 1 OCT | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-----|----------|-----|-----------|---------------------|---------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
|     | 1 FY 04 P | A   | 87        | 0                   | 87                  |     |     |     |     |     |     |     |     |     |     |     |     |
|     | 1 FY 05   | A   | 6         | 0                   | 6                   |     |     |     |     |     |     |     |     |     |     |     |     |
|     | 1 FY 06   | A   | 1         | 0                   | 1                   |     |     |     |     |     |     |     |     |     |     |     |     |
|     | 1 FY 07   | A   | 1         | 0                   | 1                   |     |     |     |     |     |     |     |     |     |     |     |     |

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### Remarks

- Load, Assemble, and Pack
## FY 06 / 07 BUDGET PRODUCTION SCHEDULE

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  - November (NOV): 74
  - December (DEC): 21
  - January (JAN): 5
  - February (FEB): 4
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- **Fiscal Year 07**
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**Load, Assemble, and Pack**

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  - B: 74
  - C: 13

- **FY 05**
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  - B: 0

- **FY 06**
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- **FY 07**
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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**
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 in the Army, 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 2006/2007 procurements support annual training and build a war reserve inventory in accordance with the Army's procurement goals. This round will replace the M934 as the preferred 120mm mortar ammunition. Funds will be used for a material modification to incorporate insensitive munitions technology into this round.

**TYPE CLASSIFICATION DATE:** STD JUN 96
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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:**
120MM MORTAR HE M934A1 (E91400)

**P-1 Line Item Nomenclature:**
Procurement of Ammunition, Army / 1 / Ammunition

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**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.
3. FY06/FY07 acquisition strategy/plan is to combine this cartridge with the procurement of the M934A2, 120mm HE w/Multi-option fuze and the M931, 120mm Full Range Practice Cartridge.
### Exhibit P-5a, Budget Procurement History and Planning

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

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

#### P-1 Line Item Nomenclature:
Procurement of Ammunition, Army / 1 / Ammunition

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**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.
3. FY06/FY07 acquisition strategy/plan is to combine this cartridge with the procurement of the M934A2, 120mm HE w/Multi-option fuze and the M931, 120mm Full Range Practice Cartridge.
## 120MM MORTAR HE M934A1

### FY 04 / 05 BUDGET PRODUCTION SCHEDULE

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**Remarks:**

- FY 2006/2007 production will be alternated between the M934A2, M933, and M931.

---

E25500 (E91400)
120MM MORTAR HE M934A1

Item No. 10  Page 34 of 46  Exhibit P-21
Production Schedule
### FY 06 / 07 BUDGET PRODUCTION SCHEDULE

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*FY 2006/2007 production will be alternated between the M934A2, M933, and M931.*
## FY 08 / 09 BUDGET PRODUCTION SCHEDULE

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**Remarks:**

- FY 2006/2007 production will be alternated between the M934A2, M933, and M931.
### Exhibit P-40, Budget Item Justification Sheet

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

**P-1 Item Nomenclature**
CTG, MORTAR, 120MM INFRARED (IR) ILLUM M983 (E91500)

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**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 Recoiling Mortar System which is planned for the Stryker Brigade Combat Team. 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 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 2006/2007 procurements support annual training and build a war reserve inventory in accordance with the Army's procurement goals.

**TYPE CLASSIFICATION STANDARD:** June 2000.
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**Remarks:** 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.
**Exhibit P-5a, Budget Procurement History and Planning**

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**REMARKS:** 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.
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**REMARKS:** 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.
## 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 INFRARED (IR) ILLUM M983 (E91500)

### P-1 Line Item Nomenclature:
Procurement of Ammunition, Army / 1 / Ammunition

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### REMARKS:
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.
## FY 04 / 05 BUDGET PRODUCTION SCHEDULE

**P-1 Item Nomenclature:**
CTG, MORTAR, 120MM INFRARED (IR) ILLUM M983 (E91500)

**Date:** February 2005

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**Remarks:**

- INITIAL
- REORDER

### Exhibit P-21
Production Schedule
### Fiscal Year 06 Production Schedule

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- **Load, Assemble, and Pack**: 28, 7, 21
- **Production Rates**: 5.00, 10.00, 30.00
- **MFR Number**: 1
- **Admin Lead Time**: Prior 1 Oct: 6, After 1 Oct: 6
- **Remarks**: Initial, Reorder

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**Fiscal Year 07 Production Schedule**

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- **Load, Assemble, and Pack**: 28, 7, 21
- **Production Rates**: 5.00, 10.00, 30.00
- **MFR Number**: 1
- **Admin Lead Time**: Prior 1 Oct: 6, After 1 Oct: 6
- **Remarks**: Initial, Reorder

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**Production Schedule**

- **MFR**: Pine Bluff Arsenal, Pine Bluff, AR
- **Name/Location**: Pine Bluff Arsenal, Pine Bluff, AR
- **MIN**: 5.00
- **1-8-5**: 10.00
- **MAX**: 30.00
- **D+**: 0
- **Prior 1 Oct**: 6
- **After 1 Oct**: 6
- **Remarks**: Initial, Reorder

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**Exhibit P-21**

**CTG, MORTAR, 120MM INFRARED (IR) ILLUM M983**

Item No. 10 Page 44 of 46

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<th>PRODUCTION RATES</th>
<th>MFR Number</th>
<th>ADMIN/LEAD TIME</th>
<th>TOTAL</th>
<th>REMARKS</th>
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<tr>
<td></td>
<td></td>
<td>MIN.</td>
<td>1-8.5</td>
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E25500 (E91500)
CTG, MORTAR, 120MM INFRARED (IR) ILLUM M983

Item No. 10 Page 45 of 46
269
Exhibit P-21
Production Schedule
## FY 10 / 11 BUDGET PRODUCTION SCHEDULE

### COST ELEMENTS

| MFR | FY       | SERV | PROC QTY x1000 | ACCEP PRIOR TO 1 OCT | BAL DUE AS OF 1 OCT | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC |
|-----|----------|------|----------------|----------------------|---------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
|     |          |      | 14000          | 18                   | 18                  | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |

**Load, Assemble, and Pack**

| MFR | FY       | SERV | PROC QTY x1000 | ACCEP PRIOR TO 1 OCT | BAL DUE AS OF 1 OCT | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC |
|-----|----------|------|----------------|----------------------|---------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
|     | FY 04 &P| A    | 14000          | 18                   | 18                  | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |

**Total**

| MFR | FY       | SERV | PROC QTY x1000 | ACCEP PRIOR TO 1 OCT | BAL DUE AS OF 1 OCT | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC |
|-----|----------|------|----------------|----------------------|---------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
|     |          |      | 14000          | 18                   | 18                  | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |

## Fiscal Year 10

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**Description:**
This budget line includes Cartridge, Tank, 105mm All Types.
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<th>FY 05</th>
<th>FY 06</th>
<th>FY 07</th>
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</thead>
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<td></td>
<td>TotalCost</td>
<td>Qty</td>
<td>UnitCost</td>
<td>TotalCost</td>
</tr>
<tr>
<td>Ctg, 105mm, HEP-TP</td>
<td>9740</td>
<td>7</td>
<td>1391</td>
<td>14632</td>
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<tr>
<td>Ctg, Tank, 105mm, HEP-T, W/Fuze Gun</td>
<td>7792</td>
<td>4</td>
<td>2226</td>
<td>7804</td>
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<tr>
<td>Ctg, Tank, 105mm, APERS-T F/Tank Gun</td>
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Total 20454 27313 29421 19440
**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 2006/2007 procurements support annual training and build a depot level in accordance with the Army's procurement goals.

**TYPE CLASSIFICATION:** August 2004

---

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<th>Program Elements for Code B Items:</th>
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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>Net Proc (P-1)</td>
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<td>5.6</td>
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<td>Initial Spares</td>
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## AMMO Cost Analysis

### AMMUNITION HARDWARE

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### PRODUCTION SUPPORT COSTS

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### COST - NON-RECURRING

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### Total

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

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**REMARKS:**
### FY 05 / 06 BUDGET PRODUCTION SCHEDULE

#### Cost Elements

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#### Complete Round

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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 07 / 08 BUDGET PRODUCTION SCHEDULE

**COST ELEMENTS**

| MFR | FY   | S| SE| ER| V | PROC| QTY| x1000| ACCEP| PRIOR| TO| I OCT| BAL| DUE| AS| OF| 1 OCT  |
|-----|------|---|---|---|---|-----|-----|------|-------|------|---|------|-----|-----|---|------|
|     |      |   |   |   |   |     |     |      |       |      |   |      |     |     |   |      |

**Fiscal Year 07**

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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.
### 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. FY 2006 procurement builds a war reserve inventory in accordance with the Army's procurement goals.

### TYPE CLASSIFICATION:
August 2004

---

**Program Elements for Code B Items:**

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<td>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.</td>
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<tr>
<td>Justification:</td>
<td>This is a war reserve item used in combat. FY 2006 procurement builds a war reserve inventory in accordance with the Army's procurement goals.</td>
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**TYPE CLASSIFICATION: August 2004**

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

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E22203 (E24300)  CTG, TANK, 105MM, HEP-T, W/FUZE M393A2  Item No. 11  Page 8 of 17  Exhibit P-40  Budget Item Justification Sheet
## AMMO Cost Analysis

### AMMUNITION HARDWARE
- **Complete Round**
  - FY 04: 6500 units, $1857 each
  - FY 05: 5226 units, $1742 each
  - FY 06: 5055 units, $1713 each

  **SubTotal AMMO Hardware**: $6500 + $5226 + $5055 = $16781

### PRODUCTION SUPPORT COSTS
- **Production Engineering**
  - FY 04: 660 units, $1438 each
  - FY 05: 1438 units, $1095 each

- **Acceptance Testing**
  - FY 04: 250 units, $300 each
  - FY 05: 320 units, $320 each

  **SubTotal Production Support**: $660 + $1438 + $250 + $300 + $1095 + $320 = $3833

### COST - Nonrecurring
- **First Article Test**
  - FY 04: 200 units
  - FY 05: 840 units

- **Engineering Change Proposals**
  - FY 04: 182 units
  - FY 05: 840 units

  **Sub Total Non-Recurring**: 200 + 840 + 182 + 840 = 2062

### Total
- **FY 04**: $7792
- **FY 05**: $2226
- **FY 06**: $7804
- **FY 07**: $2601
- **FY 08**: $6470
- **FY 09**: $2193
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REMARKS:
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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.
## FY 07 / 08 BUDGET PRODUCTION SCHEDULE

### COST ELEMENTS

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Complete Round

|     | FY 04 | A     | 5     | 5     | 0     | 0     | 0     |
|     | FY 05 | A     | 3     | 3     | 0     | 0     | 0     |
|     | FY 06 | A     | 3     | 1     | 2     | 1     | 1     |

Total 11 9 2 1 1

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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.
### 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 will have no fuze and is intended to be a simple, low-cost, low-technology round. This item is Code B, not approved for service use.

### Justification:
This is a training standard item used in both training and combat. FY 2006/2007 procurements support annual training and build a war reserve inventory of this 105MM anti-personnel canister cartridge 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

---

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

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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, 105MM, APERS-T F/TANK GUN (E24400)

**P-1 Line Item Nomenclature:**
Procurement of Ammunition, Army / 1 / Ammunition

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**REMARKS:**
### FY 05 / 06 BUDGET PRODUCTION SCHEDULE

**CTG, 105MM, APERS-T F/TANK GUN (E24400)**  
February 2005

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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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**Complete Round**

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**Production Schedule**

Item No. 11  Page 16 of 17  Exhibit P-21
## FY 07 / 08 BUDGET PRODUCTION SCHEDULE

**P-1 Item Nomenclature:** CTG, 105MM, APERS-T F/TANK GUN (E24400)  
**Date:** February 2005

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### Deliveries

Deliveries reflect continuous production but are combined into acceptable lot quantities and reflect actual rounds accepted into the Army's field service account.
### Program Elements for Code B Items:

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#### Description:
This budget line includes 120mm Tank Training Ammunition, All Types.
## AMMO Cost Analysis

### 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:** Cartridge, 120mm, TP-T: XM1002 (E73201)  
**Date:** February 2005

#### Program Elements for Code B Items:

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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 2006/2007 procurements support annual training requirements and build 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:** February 2005
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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:**
Procurement of Ammunition, Army / 1 / Ammunition

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**REMARKS:** The FY 2005-2007 buys will be split between the developing producer (Alliant Tech) and the second source (General Dynamics).
## FY 05 / 06 BUDGET PRODUCTION SCHEDULE

**Cartridge, 120mm, TP-T: XM1002 (E73201)**  
February 2005

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E89700 (E73201)  
Cartridge, 120mm, TP-T: XM1002  
Item No. 12 Page 6 of 17  
Exhibit P-21  
Production Schedule
## FY 07 / 08 BUDGET PRODUCTION SCHEDULE

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<th>E</th>
<th>R</th>
<th>V</th>
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### Fiscal Year 07

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Complete Round

1. FY 05
   - 5 units (A)
   - 5 units (A)
   - 0 units
   - 0 units

2. FY 05
   - 2 units (A)
   - 0 units
   - 2 units (A)
   - 1 unit

1. FY 06
   - 10 units (A)
   - 0 units
   - 10 units (A)
   - 3 units

2. FY 06
   - 6 units (A)
   - 0 units
   - 6 units (A)
   - 2 units

1. FY 07
   - 19 units (A)
   - 0 units
   - 19 units (A)
   - 6 units

2. FY 07
   - 18 units (A)
   - 0 units
   - 18 units (A)
   - 6 units

### Total
- 60 units
- 5 units
- 55 units

### Remarks
- Deliveries reflect continuous production but are combined into acceptable lot quantities and reflect actual rounds accepted into the Army's field service account.
### 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 2006 procurement supports annual training and builds a depot level in accordance with the Army's procurement goals. FY 2007 funding supports prior year production quantities. Tank crews conduct live fire training with this round to meet and maintain gunnery proficiency. The acquisition strategy for FY 2004 - FY 2006 is a 3-year multi-year production contract.

**TYPE CLASSIFICATION DATE:** 1983

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### Program Elements for Code B Items:

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**Flyaway U/C:**

**Wpn Sys Proc U/C:**

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**CTG TANK 120MM TP-T M831/M831A1 (E73300)**

---

**Procurement of Ammunition, Army /1/Ammunition**

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

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**Item No. 12 Page 8 of 17**

---

**E89700 (E73300)**

---

**Exhibit P-40**

---

**Budget Item Justification Sheet**
## 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:**
CTG TANK 120MM TP-T M831/M831A1 (E73300)

**P-1 Line Item Nomenclature:**
Procurement of Ammunition, Army / 1 / Ammunition

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<td>FY 2006</td>
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### REMARKS:
The acquisition strategy for FY 2004 - FY 2006 is 3-year multi-year production contract.

---

E89700 (E73300)  
CTG TANK 120MM TP-T M831/M831A1

Item No. 12  Page 10 of 17
Procurement History and Planning
## CTG TANK 120MM TP-T M831/M831A1 (E73300)  February 2005

### Fiscal Year 05 / 06 Budget Production Schedule

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**Remarks:**
- M865/M831A1 training rounds line share at Iowa.
- AAPAND have a 50/50 split multi-year procurement between ATK and General Dynamics. Leadtime reflects entire round cycle for all buys combined.
# FY 07 / 08 BUDGET PRODUCTION SCHEDULE

## COST ELEMENTS

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- Alliant Tech, MN
- General Dynamics, FL

### Production Rates

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- 1: Alliant Tech, MN
- 2: General Dynamics, FL

### Remarks

- M865/M831A1 TRAINING ROUNDS LINE SHARE AT IOWA AARP AND HAVE A 50/50 SPLIT MULTI-YEAR PROCUREMENT BETWEEN ATK AND GENERAL DYNAMICS. LEAD TIME REFLECTS ENTIRE ROUND CYCLE FOR ALL BUYS COMBINED.
## 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 M829A2 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. FY 2006/2007 procurements support annual training and build 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. The acquisition strategy for FY 2004 - 2007 is a 4-year, multi-year production contract.

**TYPE CLASSIFICATION DATE:** 1984
### 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:**
- CTG TANK 120MM TPCSDS-T M865 (E73400)

**P-1 Line Item Nomenclature:**
- Procurement of Ammunition, Army / 1 / Ammunition

**REMARKS:**
- The acquisition strategy for FY 2004 - FY 2007 is a 4-year multi-year production contract.

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**Date:** February 2005
## FY 05 / 06 BUDGET PRODUCTION SCHEDULE

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- M865/M831A1 TRAINING
- ROUNDS LINE SHARE AT IOWA
- AAP AND HAVE A 50/50 SPLIT
- MULTI-YEAR PROCUREMENT BETWEEN ATK AND GENERAL DYNAMICS
- LEAD TIME REFLECTS ENTIRE ROUND CYCLE FOR ALL BUYS COMBINED.
## FY 07 / 08 BUDGET PRODUCTION SCHEDULE

**CTG TANK 120MM TPCSDS-T M865 (E73400)**

**P-1 Item Nomenclature:**

**Date:** February 2005

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**REMARKS**

M865/M831A1 TRAINING ROUNDS LINE SHARE AT IOWA AAP AND HAVE A 50/50 SPLIT MULTI-YEAR 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 Ammunition
P-1 Item Nomenclature Ctg, Tank, 120mm Tactical, All Types (E78012)

Program Elements for Code B Items:

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

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## AMMO Cost Analysis

**AMMO ID** | CD | **FY 04** | **FY 05** | **FY 06** | **FY 07** | **Total Cost**
---|---|---|---|---|---|---
Ctg, 120mm APFSDS M829E3 | | 36249 | 42335 | 44399 | 46800 | 42093
Cartridge, 120mm Canister, XM1028 | | 5844 | 7317 | 8325 | 858 | 49652

**Total** | | 42093 | 49652 | 52724 | 47658
## Description:
The M1028 Canister is a muzzle action anti-personnel tank cartridge. This cartridge is fired from the 120mm main gun of the M1A1/M1A2 Abrams tank and is effective at ranges less than 700 meters. The baseline design utilizes a payload of approximately 1100 tungsten balls that are expelled from the projectile casing upon muzzle exit, similar to a shotgun shell. Unlike previous anti-personnel cartridges, the M1028 does not have a fuze; it is intended to be a low-cost, low-technology cartridge. The M1028 uses a combustible cartridge case and propulsion-ignition system common to the current 120mm tank ammunition. This item is Code A, approved for service use.

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

## TYPE CLASSIFICATION:
December 2004

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### Program Elements for Code B Items:

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

**Procurement of Ammunition, Army / 1 / Ammunition**

**Cartridge, 120mm, Canister, M1028 (E78011)**

**Date:** February 2005

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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:**  
Cartridge, 120mm, Canister, M1028 (E78011)

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**REMARKS:**
## FY 05 / 06 BUDGET PRODUCTION SCHEDULE

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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.**

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**Item No. 13 Page 6 of 13**

---

**Exhibit P-21**

**Production Schedule**
### COST ELEMENTS

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

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

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

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REMARKS:
### FY 05 / 06 BUDGET PRODUCTION SCHEDULE

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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.

### Remarks

- Deliveries reflect continuous production but are combined into acceptable lot quantities and reflect actual rounds accepted into the Army's field service account.
## FY 07 / 08 BUDGET PRODUCTION SCHEDULE

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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.

---

**Ctg, 120mm APFSDS M829A3 (E78013) Item Nomenclature:**

**Date:** February 2005
# FY 09 / 10 BUDGET PRODUCTION SCHEDULE

**P-1 Item Nomenclature:**
Ctg. 120mm APFSDS M829A3 (E78013)

**Date:**
February 2005

## COST ELEMENTS

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<th>BAL DUE AS OF 1 OCT</th>
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### Complete Round

| 1 | FY 04 | P     | A | 21 | 21 | 0 |
| 2 | FY 05 | A     | 8 | 8  | 0  | 0 |
| 2 | FY 06 | A     | 8 | 8  | 0  | 0 |
| 2 | FY 07 | A     | 8 | 8  | 0  | 0 |
| 2 | FY 08 | A     | 8 | 0  | 8  | 4 |
| 2 | FY 09 | A     | 8 | 0  | 8  | A |

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<th>MAX.</th>
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### Fiscal Year 10

- 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-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, ARTY, 75MM: ALL TYPES (E15101)

**Program Elements for Code B Items:**

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<td></td>
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<td></td>
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<td></td>
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<tr>
<td>Plus CY Adv Proc</td>
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</table>

**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 2006/2007 procurements support ceremonial requirements and build a depot level in accordance with the Army's procurement goals.
### AMMO Cost Elements

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<tr>
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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 Item Nomenclature:** CTG, ARTY, 105MM: ALL TYPES (E21101)

**Program Elements for Code B Items:**

| Description: | This budget line includes Ctg, Artillery, 105mm, All Types. |

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## AMMO Cost Analysis

### CTG, ARTY, 105MM: ALL TYPES (E21101)

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| Total                      | 29927       | 33157       | 41873       | 45560       |

### Procurement of Ammunition, Army

**Weapon System Type:** CTG, ARTY, 105MM: ALL TYPES (E21101)  
**Date:** February 2005
### Description:
The 105mm HE M1 cartridge contains a High Explosive (HE) (either Comp B or TNT) and is used for fragmentation, blast, and mining in support of ground troops and armored columns. 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 2006/2007 procurements support annual training and build 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.

### TYPE CLASSIFICATION DATE: 1966
### Exhibit P-40, Budget Item Justification Sheet

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

**P-1 Item Nomenclature**
CTG, ARTILLERY, 105MM ILLUM, M314 SERIES (E21700)

#### Program Elements for Code B Items:

| 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 M119 Howitzers. This item is Code A, approved for service use. |
| Justification: | This is a training standard item used in both training and combat. FY 2006/2007 procurements support annual training and build war reserve inventory in accordance with the Army's procurement goals. |
| TYPE CLASSIFICATION DATE: | 1970 |

| Appropriation/Budget Activity/Serial No: | Procurement of Ammunition, Army |
| Code: | A |
| Other Related Program Elements: | |

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

| Program Elements for Code B Items: | |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Gross Cost | 4134 | 37 | 8 | 17 | 16 | 17 | 17 | 17 | 24 | 24 | 4311 |
| Less PY Adv Proc | 267.0 | 25.1 | 6.0 | 12.9 | 15.0 | 15.7 | 16.1 | 16.5 | 23.1 | 23.7 | 421.1 |
| Net Proc (P-1) | 267.0 | 25.1 | 6.0 | 12.9 | 15.0 | 15.7 | 16.1 | 16.5 | 23.1 | 23.7 | 421.1 |
| Wpn Sys Proc U/C | 267.0 | 25.1 | 6.0 | 12.9 | 15.0 | 15.7 | 16.1 | 16.5 | 23.1 | 23.7 | 421.1 |
## 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:**
CTG, ARTILLERY, 105MM ILLUM, M314 SERIES (E21700)

**P-1 Line Item Nomenclature:**
Procurement of Ammunition, Army / 1 / Ammunition

**CTG, ARTILLERY, 105MM ILLUM, M314 SERIES (E21700)**

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<th>Date of First Delivery</th>
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**REMARKS:** * GOVERNMENT FURNISHED MATERIAL (FY 2004).
## FY 05 / 06 BUDGET PRODUCTION SCHEDULE

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### COMPLETE ROUND

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   - Location: SNC TECHNOLOGIES, MONTREAL, CN
   - Initial Reorder: 1.00
   - Production: 9.60
   - Due: 24.00
   - Remarks: 0

2. **FY 05**
   - Location: To Be Selected
   - Initial Reorder: 1.00
   - Production: 9.60
   - Due: 24.00
   - Remarks: 0

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**E21101 (E21700)**

**CTG, ARTILLERY, 105MM ILLUM, M314 SERIES**

**Item No. 15**

**Page 8 of 8**
**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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<tr>
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<tr>
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**Description:**

This budget line includes Cartridge, Artillery, 155mm All Types.
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**Total**

- FY 04: $60330
- FY 05: $109244
- FY 06: $124565
- FY 07: $125809
## Exhibit P-40, Budget Item Justification Sheet

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

### Date:
February 2005

### P-1 Item Nomenclature
PROJ, ARTILLERY, 155MM ILLUM, M485 (E26900)

### Program Elements for Code B Items:

| 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 2006/2007 procurements support annual training and build war reserve inventory in accordance with the Army’s procurement goals. |
| TYPE CLASSIFICATION DATE: | 1970 |

### Program Elements for Code B Items:

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## AMM Ø Cost Analysis

**Procurement of Ammunition, Army / 1 / Ammunition**

**PROJ, ARTILLERY, 155MM ILLUM, M485**

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REMARKS: * GOVERNMENT FURNISHED MATERIAL
### Exhibit P-5a, Budget Procurement History and Planning

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

**Weapon System Type:**
PROJ, ARTILLERY, 155MM ILLUM, M485 (E26900)

**P-1 Line Item Nomenclature:**
PROC, AMMUNITION, ARMY, M485 (E26900)

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**REMARKS:** * GOVERNMENT FURNISHED MATERIAL
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### Production Schedule

- **E89500 (E26900)**
- **PROJ, ARTILLERY, 155MM ILLUM, M485**
- **Item No. 16**
- **Page 7 of 30**

**Exhibit P-21**

**Production Schedule**
## FY 07 / 08 BUDGET PRODUCTION SCHEDULE

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**Exhibit P-21**

PROJ, ARTILLERY, 155MM ILLUM, M485
**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 2006/2007 procurements support annual training and build a war reserve inventory in accordance with the Army's procurement goals.

**TYPE CLASSIFICATION DATE:** 1958
### Exhibit P-5, Weapon
### AMMO Cost Analysis

#### Procurement of Ammunition, Army / / Ammunition

**PROJ, ARTILLERY, 155MM HE, M107 (E27601)**

**Weapon System Type:**

**Date:**
February 2005

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**Remarks:** *GOVERNMENT FURNISHED MATERIAL*
## Exhibit P-5a, Budget Procurement History and Planning

**Weapon System Type:** PROJ, ARTILLERY, 155MM HE, M107 (E27601)

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|**PLUG, SHOCK ATTENUATING**              |                                               |         |                 |        |        |      |      |     |
| FY 2004                                 | CORONET MACHINERY CORP                        | C/FP    | ROCK ISLAND, IL | JUL-04 | NOV-04 | 79   | 6.70 | N   |
|                                         | YONKERS, NY                                   |         |                 |        |        |      |      |     |
| FY 2005                                 | CORONET MACHINERY CORP                        | SS/Option | ROCK ISLAND, IL | DEC-04 | NOV-05 | 246  | 7.65 | N   |
|                                         | YONKERS, NY                                   |         |                 |        |        |      |      |     |
| FY 2006                                 | To Be Selected                                 | C/FP    | ROCK ISLAND, IL | MAR-06 | NOV-06 | 312  | 8.23 | N   |
| FY 2007                                 | To Be Selected                                 | SS/Option | ROCK ISLAND, IL | MAR-07 | NOV-07 | 213  | 8.38 | N   |

**GROMMET**

| FY 2004                                 | LC INDUSTRIES                                  | SS/FP   | ROCK ISLAND, IL | MAR-04 | AUG-04 | 79   | 1.79 | N   |
| FY 2005                                 | LC INDUSTRIES                                  | SS/FP   | ROCK ISLAND, IL | MAR-05 | DEC-05 | 247  | 1.84 | N   |
| FY 2006                                 | LC INDUSTRIES                                  | SS/FP   | ROCK ISLAND, IL | MAR-06 | DEC-06 | 314  | 1.88 | N   |
| FY 2007                                 | LC INDUSTRIES                                  | SS/FP   | ROCK ISLAND, IL | MAR-07 | DEC-07 | 214  | 1.91 | Y   |

**RECLAIM OP F/SUPP CHG**

| FY 2004                                 | MCALESTER AAP (MCAAP)                          | C/FP    | ROCK ISLAND, IL | FEB-04 | DEC-04 | 79   | 1.97 | N   |

**REMARKS:** *GOVERNMENT FURNISHED MATERIAL*
### FY 05 / 06 BUDGET PRODUCTION SCHEDULE

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# FY 07 / 08 BUDGET PRODUCTION SCHEDULE

**PROJ, ARTILLERY, 155MM HE, M107 (E27601)**

**Date:** February 2005

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## Production Schedule

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**Exhibit P-21**

Production Schedule
## FY 09 / 10 Budget Production Schedule

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#### Load, Assemble, Pack

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## Description:
The 155mm Smoke WP M110A2 projectile is a steel shell body filled with 15.6 pounds of White Phosphorous (WP), and a M54A1 burster extending through the center with 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. The projectile also has an incendiary effect. This item is Code A, approved for service use.

## Justification:
This is a training standard item used in both training and combat. The FY 2006/2007 procurements support annual training and build a war reserve inventory in accordance with the Army's procurement goals.

**TYPE CLASSIFICATION DATE:** 1972

FY 2005 funding includes a Congressional plus-up of $1.0 million.

### Program Elements for Code B Items:

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| PRODUCTION SUPPORT COSTS | PRODUCTION ENGINEERING | 423 | 244 | 832 | 674 |
|                         | QUALITY ASSURANCE | 8 | 7 | 7 | 6 |
|                         | ACCEPTANCE TESTING | 49 | 37 | 32 | 31 |
| PROD SUPPORT SUBTOTAL | 480 | 288 | 871 | 711 |

| NON-RECURRING COSTS | *GOVERNMENT FURNISHED MATERIAL | -51 |
| NON-RECURRING SUBTOTAL | -51 |
## Exhibit P-5a, Budget Procurement History and Planning

**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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**PROJ 155MM WP M110A2 MPTS**

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| FY 2005              |
| To Be Selected       | C/FP   | ROCK ISLAND, IL | JUN-05 | MAR-06 | 17 | 284.35 | Y |
| FY 2006              |
| To Be Selected       | C/FP   | ROCK ISLAND, IL | MAR-06 | MAY-07 | 25 | 307.93 | Y |
| FY 2007              |
| To Be Selected       | C/FP   | ROCK ISLAND, IL | MAR-07 | MAY-08 | 25 | 313.73 | Y |

**CHG BURSTER M54A1 ASSY**

| FY 2004              |
| To Be Selected       | C/FP   | ROCK ISLAND, IL | AUG-05 | JUN-06 | 24 | 52.54  | |
| FY 2005              |
| To Be Selected       | C/FP   | ROCK ISLAND, IL | AUG-05 | APR-06 | 17 | 90.44  | Y |
| FY 2006              |
| To Be Selected       | C/FP   | ROCK ISLAND, IL | APR-06 | JUN-07 | 25 | 97.94  | Y |
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| To Be Selected       | C/FP   | ROCK ISLAND, IL | APR-07 | MAY-08 | 25 | 99.79  | Y |

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**REMARKS:** * GOVERNMENT FURNISHED MATERIAL
# Exhibit P-5a, Budget Procurement History and Planning

**Appropriation/Budget Activity/Serial No:** Procurement of Ammunition, Army / 1 / Ammunition  
**Weapon System Type:** PROJ, ARTILLERY, 155MM, WP SMOKE, M110 (E27900)  
**P-1 Line Item Nomenclature:** Procurement of Ammunition, Army / 1 / Ammunition

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**REMARKS:** * GOVERNMENT FURNISHED MATERIAL
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P-1 Item Nomenclature: PROJ, ARTILLERY, 155MM, WP SMOKE, M110 (E27900)

Date: February 2005
## FY 07 / 08 BUDGET PRODUCTION SCHEDULE

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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 the M109 series SELF-PROPELLED HOWITZERS (including the M109A6 Paladin), the M198 Towed Howitzer and the 155mm M777 JOINT LIGHTWEIGHT HOWITZER. 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 2006/2007 procurements support the remanufacture and retrofit of 5,000 M864 Basebleed ER-DPICM projectiles.

**TYPE CLASSIFICATION DATE:** December 1987
### Description:
The 155mm M804A1 is used for training on 155mm howitzers where noise abatement is required. The M804A1 contains a small smoke canister in the fuze well that provides a visual demonstration of function. The M804A1 has physical and ballistic similitude with the M107 High Explosive (HE) projectile but it can be used in training without the blast and fragmentation effects of the HE that is essential in areas where noise abatement is required. The projectile body is a thick-walled, hollow-steel shell containing no filler. A smoke canister that has the same external appearance as a supplementary charge is contained in an aluminum liner in the deep fuze cavity. The projectile can be fitted with a Point Detonating, Mechanical Time Super Quick or Proximity fuze and loaded into the howitzer weapon with a propelling charge and primer. Fuze function detonates the smoke canister. Range varies from 3.9 to 18.3 kilometers depending on cannon and propelling charge used. This item is Code A, approved for service use.

### Justification:
This is a training unique item not used in combat. It is primarily used in areas where noise abatement is required. The FY 2006/2007 procurements support annual training and build a depot level in accordance with the Army’s procurement goals.

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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:** PROCUREMENT OF AMMUNITION, ARMY / 1 / AMMUNITION

**P-1 Line Item Nomenclature:** PROJ, ARTILLERY, 155MM PRACTICE, M804 (E69800)

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**PROJ 155MM M804A1 MPTS**

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| FY 2005              | To Be Selected          | C/FP ROCK ISLAND, IL | JUN-05     | 14  | 220.86 Y    |       |           |             |
| FY 2006              | To Be Selected          | C/FP ROCK ISLAND, IL | JUN-06     | 9   | 175.06 Y    |       |           |             |
| FY 2007              | To Be Selected          | C/FP ROCK ISLAND, IL | JUN-07     | 11  | 178.36 Y    |       |           |             |

**STEEL CUP**

| FY 2006              | To Be Selected          | C/FP ROCK ISLAND, IL | MAR-06     | 9   | 21.67 Y     |       |           |             |
| FY 2007              | To Be Selected          | C/FP ROCK ISLAND, IL | MAR-07     | 11  | 22.07 Y     |       |           |             |

**LIFTING PLUG TYPE G**

| FY 2004              | CORONET MACHINERY CORP | C/FP ROCK ISLAND, IL | OCT-04     | 7   | 7.20 N      |       |           |             |

**Remarks:** * GOVERNMENT FURNISHED MATERIAL
**Exhibit P-5a, Budget Procurement History and Planning**

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

**Weapon System Type:** PROJ, ARTILLERY, 155MM PRACTICE, M804 (E69800)

**P-1 Line Item Nomenclature:** Procurement of Ammunition, Army / 1 / Ammunition

**PROJ, ARTILLERY, 155MM PRACTICE, M804 (E69800)**

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**REMARKS:** *GOVERNMENT FURNISHED MATERIAL*
# FY 05 / 06 Budget Production Schedule

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**Remarks**

- E89500 (E69800)
- PROJ, ARTILLERY, 155MM PRACTICE, M804

Item No. 16 Page 29 of 30

Exhibit P-21

Production Schedule
### FY 07 / 08 BUDGET PRODUCTION SCHEDULE

**P-1 Item Nomenclature:**
PROJ, ARTILLERY, 155MM PRACTICE, M804 (E69800)

**Date:**
February 2005

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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**
PROJ 155MM EXTENDED RANGE XM982 (E80100)

**Program Elements for Code B Items:**

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**Description:**
XM982 Projectile funds the procurement of tooling, special test equipment and initial quantities of the Excalibur 155mm projectile with unitary warhead (Block I). These initial quantities will support First Article Tests, Limited User Tests, and other articles and activities necessary to support Early Fielding of Excalibur to Stryker Brigade Combat Team (SBCT) #5 in FY 2006. Excalibur provides improved fire support through a Precision Guided Extended Range family of munitions with greatly increased accuracy and reduced collateral. The Excalibur will be compatible with the M777A1 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) 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 not used in training. The FY 2006/2007 procurements support testing and initial capability of Excalibur (Block I) with the M777A1 LW155 howitzers organic to SBCT #5 and Paladin. Other services have expressed interest in procuring Excalibur in the near term. 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 KoS will also join in procurement.

**TYPE CLASSIFICATION DATE:** September 2006

---

| Description: | XM982 Projectile funds the procurement of tooling, special test equipment and initial quantities of the Excalibur 155mm projectile with unitary warhead (Block I). These initial quantities will support First Article Tests, Limited User Tests, and other articles and activities necessary to support Early Fielding of Excalibur to Stryker Brigade Combat Team (SBCT) #5 in FY 2006. Excalibur provides improved fire support through a Precision Guided Extended Range family of munitions with greatly increased accuracy and reduced collateral. The Excalibur will be compatible with the M777A1 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) at all ranges. Excalibur is also highly resistant to GPS jamming. This item is Code B, not approved for service use. |
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**Program Elements for Code B Items:**

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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:**

**PROJ 155MM EXTENDED RANGE: XM982-U EXCALIBUR (E80103)**

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**REMARKS:** FY05 is an option to SDD contract.
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### Fiscal Year 07

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3. FY 07
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4. FY 08
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5. FY 09
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6. FY 10
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7. FY 11
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### Remarks

- INITIAL
- REORDER
## FY 08 / 09 BUDGET PRODUCTION SCHEDULE

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E80100 (E80103)  
PROJ 155MM EXTENDED RANGE: XM982-U EXCALIBUR  
Item No. 17  
Exhibit P-21  
Production Schedule
## FY 10 / 11 BUDGET PRODUCTION SCHEDULE

### FY 10 / FY 11 BUDGET PRODUCTION SCHEDULE

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### Complete Round

- Raytheon, Tucson, AZ
  - Production Rates: MIN. 5.00, MAX. 120.00, D+ 0
  - MFR Number: 1
  - ADMIN/LEAD TIME: Prior 1 Oct 11, After 1 Oct 15
  - MFR TOTAL: 0 4 11 15

**Remarks:**

- INITIAL
- REORDER

---

**E80100 (E80103)**
PROJ 155MM EXTENDED RANGE: XM982-U EXCALIBUR

**Item No. 17**
Page 8 of 9

**Exhibit P-21**
Production Schedule
## FY 12 / 13 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**
Modular Artillery Charge System (MACS), All Types (E27501)

### Program Elements for Code B Items:

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**Description:**
This budget line item funds MACS, All Types.

FY 2005 Funding includes a congressional plus-up of $8.5 million for the MACS M231 (1.0 millions) and the MACS M232 ($7.5 million).
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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**
MODULAR ARTILLERY CHARGE SYSTEM (MACS), M231 (E27502)

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**Description:**
The Modular Artillery Charge System (MACS), M231 "Low Zone is intended for use with all US 155mm cannon field artillery systems in use and development. 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 2006/2007 procurements support annual training, testing of MACS and war reserve for the Stryker Brigade Combat Teams (SBCT). 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

FY 2005 funding includes a congressional plus-up of $1.0 million.
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### Exhibit P-5a, Budget Procurement History and Planning

**Weapon System Type:** MODULAR ARTILLERY CHARGE SYSTEM (MACS), M231

**P-1 Line Item Nomenclature:** E27502

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**REMARKS:**

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**MODULAR ARTILLERY CHARGE SYSTEM (MACS), M231**

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

**Date:** February 2005

**Procurement of Ammunition, Army / 1 / Ammunition**
### FY 05 / 06 BUDGET PRODUCTION SCHEDULE

**MODULAR ARTILLERY CHARGE SYSTEM (MACS), M231 (E27502)**

**Date:** February 2005

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# FY 07 / 08 BUDGET PRODUCTION SCHEDULE

## MODULAR ARTILLERY CHARGE SYSTEM (MACS), M231 (E27502)

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Total: 1757 1101 656

### Remarks

- Load, Assemble, and Pack
### Description:
The Modular Artillery Charge System (MACS), M232 "High Zone" is intended for use with all US 155mm cannon field artillery systems in use and development. 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 2006/2007 procurements support 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:** - 8 Aug 01

FY 2005 funding includes a congressional plus-up of $7.5 million.
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**Total** | 34881 | 110.38 | 40665 | 137.85 | 32883 | 114.97 | 37566 | 117.03 |

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), M232 (ER8021)

Weapon System Type: MODULAR ARTILLERY CHARGE SYSTEM (MACS), M232

Date: February 2005

Modular Artillery Charge System (MACS), M232 Weapon System Cost Analysis
# Exhibit P-5a, Budget Procurement History and Planning

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

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

**Weapon System Type:**
MODULAR ARTILLERY CHARGE SYSTEM (MACS), M232 (ER8021)

**P-1 Line Item Nomenclature:**
Procurement of Ammunition, Army / 1 / Ammunition

### MODULAR ARTILLERY CHARGE SYSTEM (MACS), M232 (ER8021)

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**REMARKS:**

E27501 (ER8021)
MODULAR ARTILLERY CHARGE SYSTEM (MACS), M232

Item No. 18  Page 12 of 14  Exhibit P-5a

Procurement History and Planning
## FY 05 / 06 BUDGET PRODUCTION SCHEDULE

### P-1 Item Nomenclature:
MODULAR ARTILLERY CHARGE SYSTEM (MACS), M232 (ER8021)

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February 2005

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**Exhibit P-21**
MODULAR ARTILLERY CHARGE SYSTEM (MACS), M232

Item No. 18  Page 14 of 14
**Description:**
This budget line includes Artillery Fuzes, All Types.

FY 2005 funding includes a Congressional increase of $0.6 million for the Fuze, Electronic Time, M762A1.
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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, ELECTRONIC TIME, M767A1 (E99100)

### Program Elements for Code B Items:

| 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. Procurement supports training and war reserve requirements. The M767A1 replaces the M582 and M582A1 fuzes. |


| Proc Qty | 148 | 114 | 63 | 0.1 | 43.6 |
| Gross Cost | 19.7 | 14.8 | 9.0 | 0.1 | 43.6 |
| Less PY Adv Proc | | | | | |
| Plus CY Adv Proc | | | | | |
| Net Proc (P-1) | 19.7 | 14.8 | 9.0 | 0.1 | 43.6 |
| Initial Spares | | | | | |
| Total Proc Cost | 19.7 | 14.8 | 9.0 | 0.1 | 43.6 |
| Flyaway U/C | | | | | |
| Wpn Sys Proc U/C | | | | | |

**TYPE CLASSIFICATION STANDARD:** February 2001
### Exhibit P-5, Weapon AMMO Cost Analysis

**Procurement of Ammunition, Army / 1 / Ammunition**

**FUZE, ELECTRONIC TIME, M767A1 (E99100)**

**Weapon System Type:**

**Date:** February 2005

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**Remarks:** FY 2005 is the last year of the 5-year multi-year program.
# FY 05 / 06 BUDGET PRODUCTION SCHEDULE

**P-1 Item Nomenclature:**
FUZE, ELECTRONIC TIME, M767A1 (E99100)

**Date:**
February 2005

## COST ELEMENTS

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**Fuze, ET M767A1**

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**Total**

|     | FY 04 &P | A     | 262            | 148                 | 114                 | 22 22 22 23 25                  |
|     | FY 05    | A     | 63             | 0                   | 63                  | 19 22 22 0                     |

**Total**

|     | FY 04 &P | A     | 325            | 148                 | 177                 | 22 22 22 23 25                  |
|     | FY 05    | A     | 19             | 22                  | 19                  | 22 22 0                        |

## PRODUCTION RATES

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**Fuze, ET M767A1**

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**Total**

|     | FY 04 &P | A     | 262            | 148                 | 114                 | 22 22 22 23 25                  |
|     | FY 05    | A     | 63             | 0                   | 63                  | 19 22 22 0                     |

**Total**

|     | FY 04 &P | A     | 325            | 148                 | 177                 | 22 22 22 23 25                  |
|     | FY 05    | A     | 19             | 22                  | 19                  | 22 22 0                        |
**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)

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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. The faster setting methods, employment of the M762A1 Fuze will result in fewer setting errors over the current M762 Fuze, as well as over 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 2006/2007 procurements supports training and builds war reserve inventory in support of Army's procurement goals. The M762A1 is the replacement for the M577 and M577A1 fuzes.

**TYPE CLASSIFICATION STANDARD:** February 2001

FY 2005 funding includes a congressional plus-up of $0.6 million.
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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 (E99200)

**P-1 Line Item Nomenclature:**  
Procurement of Ammunition, Army / 1 / Ammunition

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*Box, Metal, M2A1*

| FY 2004                          | Stock Issue              | NA              | NA          |                        |     |            |                      |           |               |
| FY 2005                          | Stock Issue              | NA              | NA          |                        |     |            |                      |           |               |
| FY 2006                          | Stock Issue              | NA              | NA          |                        |     |            |                      |           |               |
| FY 2007                          | Stock Issue              | NA              | NA          |                        |     |            |                      |           |               |

## Remarks:

*Box, Metal, M2A1*
## FY 05 / 06 BUDGET PRODUCTION SCHEDULE

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**Total** 395 101 294

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**Exhibit P-21**

**Production Schedule**
## FY 07 / 08 BUDGET PRODUCTION SCHEDULE

**FUZE, ELECTRONIC TIME, M762A1 (E99200)**  
**February 2005**

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- Type 3: 10.00 - 22.00 - 30.00 - 0

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**Total**: 395 189 206

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ER8000 (E99200)  
**FUZE, ELECTRONIC TIME, M762A1**  
Item No. 19 Page 11 of 16  
Exhibit P-21  
Production Schedule
### 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**
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<td>120 12</td>
<td>22708 12</td>
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Total: 28203 268.60 22708 249.54
**Exhibit P-5a, Budget Procurement History and Planning**

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**REMARKS:** The Acquisition Strategy is a 4 year Multi-year contract for FY02-FY05.
### FY 05 / 06 BUDGET PRODUCTION SCHEDULE

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**Total:**
- 748
- 216
- 532

### COST ELEMENTS

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**Remarks:**
- INITIAL
- REORDER
## FY 07 / 08 Budget Production Schedule

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#### Calendar Year 07

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**M782 Complete Fuze**

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<td>After 1 Oct</td>
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**M782 Complete Fuze**

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### Program Elements for Code B Items:

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<th>Code</th>
<th>Description</th>
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<td>Proc Qty</td>
<td>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</td>
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<table>
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## AMMO Cost Analysis

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<th>FY 07</th>
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**Procurement of Ammunition, Army / 1 / Ammunition**

**AMMO Cost Analysis**

**Weapon System Type:** MINE, TRAINING, ALL TYPES (EA0800)

**Date:** February 2005
**Exhibit P-40, Budget Item Justification Sheet**

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

**P-1 Item Nomenclature:**
MINES (CONVENTIONAL), ALL TYPES (E43799)

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<th>4.3</th>
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**Description:**
Mines (Conventional), All Types includes funding for the M18A1 Anti-Personnel Munition (Claymore).
### 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**
MINE, CLEARING CHARGE, ALL TYPES (E75100)

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**Description:**
This budget includes Mine Clearing Charges, All Types.
### Exhibit P-5, Weapon
### AMMO Cost Analysis

**Procurement of Ammunition, Army / 1 / Ammunition**

<table>
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<tr>
<th>AMMO Cost Elements</th>
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**Total**

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**Procurement of Ammunition, Army / 1 / Ammunition**

**Weapon System Type:** MINE, CLEARING CHARGE, ALL TYPES (E75100)

**Date:** February 2005
### Description:
The Anti-Personnel Obstacle Breaching System (APOBS) is used by dismounted troops in combat operations to clear a lane through wire obstacles and anti-personnel mines. This item is a lightweight, self-contained, 1-shot expendable system that is transported and deployed by a 2-man team. It consists of a line charge/fuze assembly and a rocket motor assembly. APOBS uses the EX126 Mod 0 rocket motor to propel a line charge over the obstacle. The line is explodes, clearing a lane. 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. The APOBS will replace the Bangalore Torpedo for some applications including breaching complex wire and anti-personnel landmine obstacles.

**TYPE CLASSIFICATION:** July 2001 - Standard

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**ATTN-PERS OBSTACLE BREACHING SYSTEM 404** 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:** ANTI-PERS OBSTACLE BREACHING SYSTEM (E72800)

**P-1 Line Item Nomenclature:** Procurement of Ammunition, Army

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**REMARKS:**
### FY 04 / 05 BUDGET PRODUCTION SCHEDULE

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E75100 (E72800)
ANTI-PERS OBSTACLE BREACHING SYSTEM

Item No. 22  Page 6 of 15
406  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
LINE CHARGE INERT M68A2 F/MICLIC (E75102)

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### Description:
The M68A2 is used to train soldiers in the use of the M58 Mine Clearing Line Charge (MICLIC). This inert line charge consists of 6-inch long rubber composition blocks overwrapped with a nylon sleeve and tied to a nylon line. It is designed to simulate the clearing of a lane in a minefield 5 meters wide, 90-110 meters long. The M68A2 is deployed from a 3-1/2 ton trailer M353 and launched with the Navy 5-inch rocket MK22, MOD 4. This line charge is packed one each per metal container. This item is Code A, approved for service use.

### Justification:
This is a training unique item; not used in combat. FY 2006/2007 procurements support annual training and build a depot level in accordance with the Army's procurement goals. The MICLIC is the United States' only stand-off minefield breaching capability for mechanized heavy forces. It is essential that units have this training item in order to effectively employ the service items in time of conflict. The Marine Corps is the lead service and configuration manager for this item.

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

**Procurement of Ammunition, Army / 1 / Ammunition**

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**Weapon System Type:** LINE CHARGE INERT M68A2 F/MICLIC

**Date:** February 2005

**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:**

**P-1 Line Item Nomenclature:**
LINE CHARGE INERT M68A2 F/MICLIC (E75102)

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**REMARKS:**

E75100 (E75102)
LINE CHARGE INERT M68A2 F/MICLIC

Item No. 22  Page 9 of 15

Exhibit P-5a
Procurement History and Planning
# FY 06 / 07 BUDGET PRODUCTION SCHEDULE

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**Production Schedule**

Exhibit P-21

Item No. 22 Page 11 of 15
Exhibit P-40, Budget Item Justification Sheet

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

Date: February 2005

P-1 Item Nomenclature
EXPLOSIVE STANDOFF MINEFIELD BREACHER (ESMB) (E81400)

Program Elements for Code B Items:
654818 D415

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<td>Plus CY Adv Proc</td>
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<td>Wpn Sys Proc U/C</td>
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Description:
The Explosive Standoff Minefield Breacher (Mongoose) will be used by Stryker mounted troops to breach minefields. The Mongoose is a rocket-deployed array of countermine shaped charges, launched across the minefield, from a stand-off position, and command detonated to provide a high confidence cleared lane for the passage of friendly troops. This system supports Stryker Brigade Combat Team (SBCT) and the Future Combat Systems (FCS). This item is code B, not authorized for service use.

Justification:
This is a war reserve item, not used in training. The FY 2007 procurement builds an initial war reserve inventory in accordance with the Army's procurement goals. Mongoose will provide the Stryker Brigade Combat Team's engineer forces a state-of-the-art minefield clearing/breaching system. Mongoose will also be provided to engineer units to replace the Mine Clearing Line Charge (MICLIC) that has proven ineffective against modern pressure hardened mines.

TYPE CLASSIFICATION: April 2007 - Standard
**Exhibit P-5, Weapon AMMO Cost Analysis**

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

**P-1 Line Item Nomenclature:**
EXPLOSIVE STANDOFF MINEFIELD BREACHER (ESMB) (E81400)

**Weapon System Type:**
Date: February 2005
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<th>Contract Method and Type</th>
<th>Location of PCO</th>
<th>Award Date</th>
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<th>Specs Avail Now?</th>
<th>Date Revu Avail</th>
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**REMARKS:** Initial production contract will be a negotiated option to the development contract.
### FY 09 / 10 BUDGET PRODUCTION SCHEDULE

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**Total**

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## Description:
This budget line includes Antipersonnel Landmine Alternatives (APLA), All Types.
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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**
- SPIDER NETWORKED MUNITIONS SYSTEM (E91700)

**Program Elements for Code B Items:**
- Item No.: 654608 D434

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<td>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 and munition control units 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. 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.</td>
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<td>This is a training standard item used in both training and combat. FY 2006/2007 procurements support annual training and build a 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.</td>
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| Type Classification: | December 2005 - LRIP |

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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:**
SPIDER NETWORKED MUNITIONS SYSTEM (E91700)

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**FY 06 / 07 BUDGET PRODUCTION SCHEDULE**

**P-1 Item Nomenclature:**
SPIDER NETWORKED MUNITIONS SYSTEM (E91700)

**Date:**
February 2005

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**Exhibit P-21**

Production Schedule
## FY 08 / 09 BUDGET PRODUCTION SCHEDULE

**SPIDER NETWORKED MUNITIONS SYSTEM (E91700)**  
**February 2005**

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### Remarks

- **P-1 Item Nomenclature:** SPIDER NETWORKED MUNITIONS SYSTEM (E91700)  
- **Date:** February 2005
Exhibit P-40, Budget Item Justification Sheet

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27086
**Exhibit P-40, Budget Item Justification Sheet**

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

**P-1 Item Nomenclature:** Intelligent Munition System (E96901)

**Program Elements for Code B Items:** 65808, D016

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**Description:**
The Intelligent Munition System (IMS) is an integrated system of effects (lethal anti-vehicle, anti-personnel, non-lethal, demolitions), software, sensors/seekers and communications that may be emplaced by multiple means and is capable of unattended employment for the detection, classification, identification, tracking and engagement of selected targets in accordance with the commander’s intent. One IMS system is comprised of eight Remotely Controlled Dispensing Modules (DM). IMS is one of the 18 core systems that make up the Future Combat Systems (FCS) Family of Systems. It shall be fielded as part of the FCS Spiral 1. With its self-destructing/self-deactivating capability, it is the materiel solution that will comply with the National Landmine Policy to replace all non-self-destructing anti-vehicle mines from the U.S. inventory. IMS will enhance the effectiveness for both the current and future force in the areas of force protection and battle space shaping. IMS procurement quantities have been defined to reflect Army transformation efforts as well as FCS acceleration strategy. This item is code B, not approved for service use.

**Justification:**
This is a war reserve item, not used in training. FY2007 procurement will build a war reserve inventory in support of the Army's procurement goals.

**TYPE CLASSIFICATION:** June 2008
### AMMO Cost Analysis

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Procurement of Ammunition, Army / 1 / Ammunition

February 2005

Intelligent Munition System (E96901)

Weapon System Type: Intelligent Munition System (E96901)

P-1 Line Item Nomenclature: Intelligent Munition System (E96901)

Exhibit P-5, Weapon System Cost Analysis
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**REMARKS:** IMS is an evolutionary acquisition development currently in the Technology Development (TD) phase. At Milestone B either General Dynamics Advanced Information Systems of Bloomington, MN or Textron Systems of Wilmington, MA will be selected to complete the development and low-rate initial production of the first IMS increment.
## Fiscal Year 09

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### Remarks

- IMS System
- To Be Selected

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E96900 (E96901)  
Intelligent Munition System  
Item No. 24  Page 6 of 6  
428  
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**
SHOULDER FIRED ROCKETS, ALL TYPES (EA4000)

**Program Elements for Code B Items:**

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<tr>
<th>Description</th>
<th>Justification</th>
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<tr>
<td>This budget line includes Shoulder Fired Rockets, All Types.</td>
<td>FY2005 funding includes a Congressional plus-up of $7.7 million for Rockets, 66mm HEAT (LAW) ($4.3 million) and Bunker Defeat Munition ($3.4 million).</td>
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<td>7.7</td>
<td>18.1</td>
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EA4000
SHOULDER FIRED ROCKETS, ALL TYPES

Item No. 25  Page 1 of 13

Exhibit P-40
Budget Item Justification Sheet
## 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:**
- SHOULDER FIRED ROCKETS, ALL TYPES

**Date:**
- February 2005

### AMMO Cost Elements

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<td>$6902</td>
<td>1840</td>
<td>$3.751</td>
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<tr>
<td>E88401 BUNKER DEFEAT MUNITION</td>
<td>$6831</td>
<td>11469</td>
<td>$5.916</td>
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<tr>
<td>E36400 ROCKET 66MM HEAT (LAW)</td>
<td>$4234</td>
<td>1521</td>
<td>$2.784</td>
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<td><strong>Total</strong></td>
<td><strong>13733</strong></td>
<td><strong>22975</strong></td>
<td><strong>7810</strong></td>
<td><strong>7749</strong></td>
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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, one-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 2006/2007 procurements support annual training and build a war reserve inventory in accordance with the Army's procurement goals.

## TYPE CLASSIFICATION (TC) DATE: April 2005
## Exhibit P-5, Weapon AMMO Cost Analysis

**Procurement of Ammunition, Army / 1 / Ammunition**

**AT4 - Confined Space (E36101)**

**Date:** February 2005

**Weapon System Type:**

### AMMO Cost Analysis

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<td>SubTotal Production Support</td>
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Total | $6902 | $7272 | $7412 | $7749 |

UnitCost ($/Each) | 3.75 | 4.33 | 4.24 | 4.41 |
### Exhibit P-5a, Budget Procurement History and Planning

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**REMARKS:**
## FY 04 / 05 BUDGET PRODUCTION SCHEDULE

**P-1 Item Nomenclature:**
AT4 - Confined Space (E36101)  February 2005

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**Exhibit P-21**

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Total
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Fiscal Year 06

Calendar Year 06

Fiscal Year 07

Calendar Year 07

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EA4000 (E36101) AT4 - Confined Space Item No. 25 Page 8 of 13 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**
BUNKER DEFEAT MUNITION (E88401)

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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. FY2006 funds Engineering in Support of Production (ESIP).

**TYPE CLASSIFICATION:** Limited Procurement – September 1994

FY2005 funding includes a Congressional plus-up of $3.4 million.
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**FY 2005**

Talley Defense Systems
Mesa, AZ
## FY 04 / 05 BUDGET PRODUCTION SCHEDULE

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**Complete Round**

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2. FY 05 A 893 0 893

**Total**

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**Description:**

This budget line procures all Hydra 70 rocket types in support of training and war reserve requirements. Further, 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-64 Apache and OH-58D Kiowa Warrior helicopters) to perform a number of roles including anti-materiel, anti-personnel, and air-to-ground suppression.
## AMMO Cost Analysis

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

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

**P-1 Item Nomenclature**
ROCKET HYDRA 70 FLECHETTE M255A1 W/MK66 MOTOR (ALL (E05302))

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**Description:**
The HYDRA-70 family of rockets is used by Army aircraft (AH-64 Apache and OH-58D Kiowa Warrior helicopters) 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 sixty-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 (time of flight) from 500 meters to 7200 meters. At expulsion, the 1,179 sixty 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 live 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. FY 2006/2007 procurements build a war reserve inventory in accordance with the Army's procurement goals.
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Date: February 2005

P-1 Item Nomenclature:
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## FY 12 / 13 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**
ROCKET HYDRA 70 MPSM PRAC M267 (E37334)

**Program Elements for Code B Items:**

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**Description:**
The HYDRA-70 family of rockets is used by Army aircraft (AH-64 Apache and OH-58D Kiowa Warrior helicopters) 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 with electromagnetic radiation protection, 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. FY 2006/2007 procurements support annual training and build a depot level in accordance with the Army's procurement goals.

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

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**Remarks:**

- **Date:** February 2005
- **Weapon System Type:** Rocket Hydra 70 MPSM Prac M267 (E3734)
- **P-1 Line Item Nomenclature:** ROCKET HYDRA 70 MPSM PRAC M267 (E3734)
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3. **FY 06** A 10.0 0.0 10.0
4. **FY 07** A 18.0 0.0 18.0
5. **FY 08** A 18.0 0.0 18.0
6. **FY 09** A 18.0 0.0 18.0
7. **FY 10** A 18.0 0.0 18.0
8. **FY 11** A 18.0 0.0 18.0

**Total** 203.0 65.1 137.9 2.4 5.0 5.0 5.0 5.0 5.0 3.5 107.0

**PRODUCTION RATES**

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**Remarks**

- **INITIAL**
- **REORDER**
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| Complete Round | | | | | | |
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| 1 FY 05 A | 7.0 | 0.0 | 7.0 | | | 0 |
| 1 FY 06 A | 10.0 | 0.0 | 10.0 | | | 0 |
| 1 FY 07 A | 18.0 | 0.0 | 18.0 | | | 0 |
| 1 FY 08 A | 18.0 | 0.0 | 18.0 | | | 0 |
| 1 FY 09 A | 18.0 | 0.0 | 18.0 | | | 0 |
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# FY 08 / 09 Budget Production Schedule

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### Fiscal Year 08

#### Calendar Year 08

- **1** General Dynamics, Burlington, VT
  - **MIN.** 1.00
  - **1-8.5** 15.00
  - **MAX.** 46.00
  - **D+** 0
  - **REACHED** 1
  - **MFR Number** INITIAL
  - **Admin Lead Time** Prior 1 Oct: 6 After 1 Oct: 7
  - **MFR Total** Total: 68.0

---

### Fiscal Year 09

#### Calendar Year 09

- **1** General Dynamics, Burlington, VT
  - **MIN.** 1.00
  - **1-8.5** 15.00
  - **MAX.** 46.00
  - **D+** 0
  - **REACHED** 1
  - **MFR Number** INITIAL
  - **Admin Lead Time** Prior 1 Oct: 6 After 1 Oct: 7
  - **MFR Total** Total: 68.0

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### Remarks

- **Complete Round**
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E37300 (E37334)  Item No. 26 Page 17 of 34  458  Exhibit P-21  Production Schedule
### FY 12 / 13 Budget Production Schedule

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### Description:
The HYDRA-70 family of rockets is used by Army aircraft (AH-64 Apache and OH-58D Kiowa Warrior helicopters) 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 2006/2007 procurements support annual training and build 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

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

**P-1 Line Item Nomenclature:**
ROCKET HYDRA 70 HE/PD M151/M423 (E37335)

**Weapon System Type:**

**Date:**
February 2005

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Calendar Year 07

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Total: 477 114 363
## FY 08 / 09 Budget Production Schedule

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E37300 (E37335)  
ROCKET HYDRA 70 HE/PD M151/M423  
Item No. 26  
Page 24 of 34  
465  
Exhibit P-21  
Production Schedule
### FY 10 / 11 BUDGET PRODUCTION SCHEDULE

**COST ELEMENTS**

| MFR | FY    | SEQ | PROC QTY x1000 | ACCEP PRIOR TO 1 OCT | BAL DUE AS OF 1 OCT | 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 |
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**P-1 Item Nomenclature:**

ROCKET HYDRA 70 HE/PD M151/M423 (E37335)

**Date:** February 2005
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### Description:
The HYDRA-70 family of rockets is used by Army aircraft (AH-64 Apache and OH-58D Kiowa Warrior helicopters) 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 2006/2007 procurements support annual training and build a depot level in accordance with the Army's procurement goals.

**TYPE CLASSIFICATION DATE:** 1986
**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:**
ROCKET HYDRA 70 SIG PRAC M274 (E37337)

**P-1 Line Item Nomenclature:**
Procurement of Ammunition, Army / 1 / Ammunition

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**Remarks:**

E37300 (E37337)
ROCKET HYDRA 70 SIG PRAC M274

Item No. 26  Page 29 of 34

Exhibit P-5a
Procurement History and Planning
## FY 04 / 05 BUDGET PRODUCTION SCHEDULE

P-1 Item Nomenclature:
ROCKET HYDRA 70 SIG PRAC M274 (E37337)

Date: February 2005

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1 FY 08 A 138.0 0.0 138.0
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**Item Nomenclature:** ROCKET HYDRA 70 SIG PRAC M274 (E37337)  
**Date:** February 2005

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## FY 08 / 09 Budget Production Schedule

**Item Nomenclature:**
ROCKET HYDRA 70 SIG PRAC M274 (E37337)

**Date:**
February 2005

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**E37300 (E37337)**  
ROCKET HYDRA 70 SIG PRAC M274

Item No. 26 Page 32 of 34

Exhibit P-21  
Production Schedule
## FY 10 / 11 BUDGET PRODUCTION SCHEDULE

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### Remarks

- **Exhibit P-21**
- Production Schedule
# FY 12 / 13 BUDGET PRODUCTION SCHEDULE

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## Exhibit P-21

Production Schedule
**Description:**
This budget line includes Demolition Munitions, All Types.

FY2005 includes a Congressional plus-up of $2.5 million for Cap, Blasting, Non-Electric: 200 Ft Minitube, M19 ($1.5 million); Blasting Cap, Non-Electric: 500 Ft Minitube, M21 ($0.5 million); and Blast Cap, Non-Electric: 1000 Ft Minitube, M23 ($0.5 million).
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**Total** | 25352 | 31571 | 29719 | 33865
### Program Elements for Code B Items:

| 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 2006/2007 procurements support annual training, support demilitarization requirements, and build a war reserve inventory in accordance with the Army's procurement goals. Type Classification Date: Prior to 1960 |

| Description: | |
| Justification: | |

### P-1 Item Nomenclature

**CHG DEMO BLK COMP C-4 1 1/4 LB M112**

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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:** CHG DEMO BLK COMP C-4 1-1/4 LB M112 (E50601)

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**REMARKS:**
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**Note:** The table above includes production rates and行政lead time for different fiscal years. The values represent cost elements in a budget production schedule. The schedule is dated February 2005.
Fiscal Year 06

Calendar Year 06

Calendar Year 07

Fiscal Year 07

1 AMERICAN ORDNANCE (MAAP) 13.60 100.00 120.00 1 INITIAL 8 8 12 20

1 AMERICAN ORDNANCE (MAAP) 13.60 100.00 120.00 1 INITIAL 8 8 12 20

LOAD, ASSEMBLE, PACK

1 FY 04 &P A 1070 1070 0 0

1 FY 05 A 508 0 508 0

1 FY 06 A 1222 0 1222 0

1 FY 07 A 1270 0 1270 0

1 FY 04 &P AF 60 60 0 0

1 FY 05 AF 67 0 67 0

1 FY 06 AF 39 0 39 0

1 FY 07 AF 38 0 38 0

1 FY 04 &P SOF 27 27 0 0

1 FY 07 SOF 27 0 27 0

Total 4326 1157 3170
## FY 08 / 09 BUDGET PRODUCTION SCHEDULE

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**Total:**

| 4326 | 2463 | 1863 | 106 | 106 | 106 | 106 | 110 | 110 | 110 | 110 | 110 | 110 | 107 | 107 | 107 | 107 | 107 |}

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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**
DEMO KIT BANGALORE TORPEDO M1A2 (E50701)

**Program Elements for Code B Items:**

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<th>Description:</th>
<th>Type Classification Date: 1958</th>
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<td>The M1A2 Bangalore Torpedo is used to clear paths through barbed wire entanglements, minefields, and heavy undergrowth. Each kit contains ten 5-foot long torpedoes, ten connecting sleeves, and a nose sleeve. Each end of the torpedo tube contains a threaded can well. The nose sleeve, rounded to facilitate pushing the torpedo through obstacles, is secured to the tube by a clip. The connecting sleeves are short, cylindrical couplings used to secure two or more torpedoes together, end-to-end. The M1A2 has a main filler of approximately 10.5 lbs Comp B4 with Comp A3 booster at each end. This item is Code A, approved for service use.</td>
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<tr>
<td>Justification:</td>
<td>This is a training standard item. Procurement supports annual training and builds a war reserve inventory in accordance with the Army’s procurement goals.</td>
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**Justification:**

**Type Classification Date:** 1958

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**Date:** February 2005
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**SubTotal AMMO Hardware:** 6164

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**SubTotal Production Support Costs:** 1282

**NON-RECURRING COSTS**

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**SubTotal Non-Recurring Costs:** -2053

**Total:**

- **FY 04:** 5393
- **FY 05:** 2935
- **FY 06:** 3166
- **FY 07:** 4871
### Exhibit P-5a, Budget Procurement History and Planning

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

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REMARKS:
FY04 and FY05 will be combined in single buy.
Explosives will be provided from stock for FY04 only.
### FY 06 / 07 BUDGET PRODUCTION SCHEDULE

**COST ELEMENTS**

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#### Lead, Assemble, and 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**
GRENADES, ALL TYPES (E34000)

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**Description:**
This budget line includes Grenades, All Types.
## AMMO Cost Analysis

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E34000
GRENADES, ALL TYPES

Item No. 28  Page 2 of 18
Exhibit P-5  Weapon System Cost Analysis
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**Description:**
The M228 Fuze is used with the M69 delay 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 2006/2007 procurements support annual training and build a depot level in accordance with the Army's procurement goals.

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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 GRENADE HAND PRAC M228 (E31900)

**P-1 Line Item Nomenclature:**
Procurement of Ammunition, Army / 1 / Ammunition

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**REMARKS:** FY04 will be a split buy, with two manufacturers. The FY04 and FY05 quantities will be combined for award in April 2005. The Average production unit cost for both years is estimated at $5.77 per fuze. Second source will clear backlog and restore proper funded delivery period by end of FY06.
### FY 04 / 05 BUDGET PRODUCTION SCHEDULE

**P-1 Item Nomenclature:** FUZE GRENADE HAND PRAC M228 (E31900)

**Date:** February 2005

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**FY06/07 deliveries maintains continuity of production to prevent breaks. FY06 is produced within the FDP.**
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**Exhibit P-21**

Production Schedule
## FY 08 / 09 BUDGET PRODUCTION SCHEDULE

**Item No.:** 28  
**Page:** 8 of 18  
**Exhibit:** P-21  
**Date:** February 2005

### COST ELEMENTS

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#### COMPLETE FUZE

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**Total:** 18676  
**QTY:** 13520  
**BAL DUE:** 5156

## Production Schedule

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| MFR |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|     |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |

### Fiscal Year 09

|   | N | D | E | A | M | J | J | A | S | O | N | D | J | F | M | A | P | Y | U | L | G | S |
| MFR |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|     |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |

### Remarks

- **PRODUCTION RATES**
  - MIN.
  - MAX.
  - D:
- **REACHED**
- **MFR Number**

### Administrative Time

- **Prior 1 Oct**
- **After 1 Oct**

### Remarks

- **MFR**
- **NAME/LOCATION**
- **REMARKS**

### Production Schedule

- **INITIAL**
- **REORDER**
- **INITIAL**
- **REORDER**
- **INITIAL**
- **REORDER**
- **INITIAL**
- **REORDER**
- **INITIAL**
- **REORDER**
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### Justification:

This is a training standard item used in both training and combat. FY 2006/2007 procurements support annual training and build a war reserve inventory in accordance with the Army's procurement goals.

**TYPE CLASSIFICATION DATE:** 1971
## AMMO Cost Analysis

### HARDWARE

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**Notes:**
- FY 04, FY 05, FY 06, FY 07 refer to fiscal years.
- Costs are in thousands of dollars.
- Hardware costs include various components of the M67 hand grenade, such as loads, assembles, packs, fuzes, and bodies.
- Production support costs include engineering and quality assurance.
- Non-recurring costs are associated with government furnished materials.

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

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

**P-1 Line Item Nomenclature:** GRENADA HAND FRAG DELAY M67 (E32000)

**Weapon System Type:**

**Date:** February 2005
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REMARKS: * GOVERNMENT FURNISHED MATERIAL
FY06/FY07 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 2005

### COST ELEMENTS

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|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 2   | FY 05 | A   | 563 | 563 | 0   |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 2   | FY 06 | A   | 360 | 212 | 148 | 30  | 31  | 30  | 27  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 2   | FY 07 | A   | 371 | 0   | 371 | 31  | 31  | 31  | 31  | 31  | 31  | 31  | 31  | 31  | 31  | 31  | 31  | 31  | 31  | 31  | 31  | 31  | 31  |     |     |     |     |     |
| 2   | FY 06 | AF  | 2   | 0   | 2   | 31  | 31  | 31  | 31  | 31  | 31  | 31  | 31  | 31  | 31  | 31  | 31  | 31  | 31  | 31  | 31  | 31  | 31  |     |     |     |     |     |
| 2   | FY 07 | AF  | 1   | 0   | 1   |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 2   | FY 05 | SOF | 22  | 22  | 0   |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |

### LOAD, ASSEMBLE & PACK

| FY  | A   | B   | C   | D   | E   | F   | G   | H   | I   | J   | K   | L   | M   | N   | O   | P   | Q   | R   | S   | T   | U   | V   | W   | X   | Y   | Z   |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 1   | FY 04 | A   | 434 | 434 | 0   |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 1   | FY 04 | MC  | 27  | 27  | 0   |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |

Total: 1780 1258 522

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**E34000 (E32000)**

GRENADE HAND FRAG DELAY M67

Item No. 28 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**
GRENADE HAND SMOKE TNG M83 (E69300)

**Program Elements for Code B Items:**

| Description: |
| Description of 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 2006/2007 procurements support annual training and build 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. |

| TYPE CLASSIFICATION DATE: 1994 |

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**Procurement of Ammunition, Army / 1 / Ammunition**

**AMMO ID**

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**FY 05**

**FY 06**

**FY 07**

**Date:** February 2005
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**P-1 Item Nomenclature:**
GRENADE HAND SMOKE TNG M83 (E69300)

**Date:** February 2005

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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**
SIGNALS, ALL TYPES (E46900)

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### AMMO Cost Analysis

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Total: 26932  26175  26648  26582
## 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)

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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 2006/2007 procurements support annual training and build a war reserve inventory in accordance with the Army's procurement goals.

**TYPE CLASSIFICATION:**  
November 2002 - Standard
### AMMO Cost Analysis

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**Note:** The table represents the cost analysis for Ammunition Hardware, Production Support Costs, and Non Recurring Costs for the years FY 04 to FY 07. Each row shows the total cost, quantity, and unit cost for each year.
### 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:**
FLARE, AIRCRAFT, COUNTERMEASURE, M212 (E88800)

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**REMARKS:** FY04 Title IX Supplemental quantity 33 thousand will be awarded along with the basic FY05 program. FY06 will be a competitive award based on a performance spec.
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**Total** 319 319

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**Production Rates**

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## FY 06 / 07 BUDGET PRODUCTION SCHEDULE

**FLARE, AIRCRAFT, COUNTERMEASURE, M212 (E88800)**  
**February 2005**

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   - 91  

2. FY 06  
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   - 33  

3. FY 07  
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### Total

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E46900 (E88800)  
FLARE, AIRCRAFT, COUNTERMEASURE, M212  
Item No. 29 Page 7 of 14  
Exhibit P-21  
Production Schedule
## FY 08 / 09 BUDGET PRODUCTION SCHEDULE

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| Total          | 319  | 189 | 130      | 12    | 12 12 13 9 12 | 12 12 12 12 12 |

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**P-1 Item Nomenclature:**
FLARE, AIRCRAFT, COUNTERMEASURE, M212 (E88800)

**Date:**
February 2005

**Exhibit P-21**
Production Schedule
**Description:**
The M211 Infrared Countermeasure Flare is dispensed from aircraft in combination with M206 and M212 Infrared Countermeasures flares, to decoy heat-seeking missiles. 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 2006/2007 procurements support annual training and build a war reserve inventory in accordance with the Army's procurement goals.

**TYPE CLASSIFICATION:** November 2002 - Standard
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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:**

FLARE, INFRARED, COUNTERMEASURE, M211 [E889900]

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**REMARKS:** FY04 Title IX Supplemental quantities of 42 thousand will be awarded with the FY05 program.
## FY 04 / 05 BUDGET PRODUCTION SCHEDULE

**COST ELEMENTS**

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<tr>
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<th>BAL DUE AS OF 1 OCT</th>
<th>MFR</th>
<th>ADMINLEAD TIME</th>
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### Complete Round

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<th>FY</th>
<th>SUE R</th>
<th>PR C QTY x1000</th>
<th>ACCEP PRIOR TO 1 OCT</th>
<th>BAL DUE AS OF 1 OCT</th>
<th>MFR</th>
<th>ADMINLEAD TIME</th>
</tr>
</thead>
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| 1   | FY 04 P | A | 125 | 0 | 125 | 4 | 2 | 4 | 4 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9
| 2   | FY 04 P | AF | 107 | 0 | 107 | 12 | 18 | 18 | 18 | 18 | 18 | 18 | 18 | 18 | 18 | 18 | 18 |

**Total**

722

### MFR

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<td>15.00</td>
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**Remarks**

- INITIAL
- REORDER
- INITIAL
- REORDER
- INITIAL
- REORDER
- INITIAL
- REORDER
## FY 06 / 07 BUDGET PRODUCTION SCHEDULE

### COST ELEMENTS

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<th>PROC QTY x1000</th>
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<th>BAL DUE AS OF 1 OCT</th>
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### Fiscal Year 06

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### Production Rates

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<th>MFR</th>
<th>TOTAL</th>
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## FY 08 / 09 BUDGET PRODUCTION SCHEDULE

**P-1 Item Nomenclature:** FLARE, INFRARED, COUNTERMEASURE, M211 (E88900)

**Date:** February 2005

### COST ELEMENTS

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**Total:** 722 343 379 27 29 29 29 29 29 29 29 29 29 29 4

| OCT | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | DEC | OCT | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | DEC | OCT | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | DEC | OCT | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG |
| 0.00 | 10.00 | 18.00 | 0.00 | 0.00 | |
| 18.00 | 20.00 | 20.00 | 20.00 | 20.00 | 20.00 | 20.00 | 20.00 | 4.00 |
| 15.00 | 15.00 | 17.00 | 20.00 | 20.00 | 20.00 | 20.00 | 20.00 | 4.00 |
| 18.00 | 20.00 | 20.00 | 20.00 | 20.00 | 20.00 | 20.00 | 20.00 | 4.00 |
| 15.00 | 15.00 | 17.00 | 20.00 | 20.00 | 20.00 | 20.00 | 20.00 | 4.00 |

**Total:** 722 343 379 27 29 29 29 29 29 29 29 29 29 29 4

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**Exhibit P-21**
Production Schedule
### Description:
This budget line includes Simulators, All Types. Simulators are pyrotechnical devices that produce sound and light similar to tactical munitions, used to enhance realism in training.
## AMMO Cost Analysis

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<th>Cost Elements</th>
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<th>FY 05</th>
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<tr>
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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
AMMO COMPONENTS, ALL TYPES (EB0016)

#### Program Elements for Code B Items:

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<tr>
<td>Plus CY Adv Proc</td>
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<td></td>
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<td>Net Proc (P-1)</td>
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<td>Initial Spares</td>
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<td>Total Proc Cost</td>
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<td>Wpn Sys Proc U/C</td>
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#### Description:
This budget line includes all Ammo Components/Support Items.
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AMMO COMPONENTS, ALL TYPES

Item No. 31  Page 2 of 3  523

Exhibit P-5  Weapon System Cost Analysis
## 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.
<table>
<thead>
<tr>
<th>Program Elements for Code B Items:</th>
<th>Code: A</th>
<th>Other Related Program Elements:</th>
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**Description:**
This budget line item procures Non-Lethal Ammunition, All Types.
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<th>FY 06</th>
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**Exhibit P-40, Budget Item Justification Sheet**

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

**Date:**
- February 2005

**Program Elements for Code B Items:**

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**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 2006/2007 procurements support annual training and build 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: March 2005.
## AMMO Cost Analysis

### 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:**
NON LETHAL CAPABILITIES SET (E91800)

### P-1 Line Item Nomenclature:
Procurement of Ammunition, Army / 1 / Ammunition

**NON LETHAL CAPABILITIES SET (E91800)**

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Crane IN

**FY 2007**
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Crane IN

### 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

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## 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**

CAD/PAD ALL TYPES (EA0003)

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**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 2005 program is required to assure availability of replacement items when needed and avoid grounding aircraft or rendering aircraft partially mission capable.
## Exhibit P-40, Budget Item Justification Sheet

**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>Item No. 34 Page 1 of 2</th>
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**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 key 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. It will be built and the equipment installed during FY 2005 and 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.

FY 2005 funding includes a Congressional plus-up of $7.5 million.
**Exhibit P-40, Budget Item Justification Sheet**

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

### P-1 Item Nomenclature
FIRST DESTINATION TRANSPORTATION (AMMO) (EA0550)

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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.
## Closeout Liabilities (EA8500)

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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.
| Description: | This budget line includes Provision of Industrial Facilities. |

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

**Appropriation/Budget Activity/Serial No:**
Procurement of Ammunition, Army /2/Ammunitions production base support

**P-1 Item Nomenclature**
INDUSTRIAL FACILITIES (EP1200)

**Program Elements for Code B Items:**

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**Prior Years**

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<td>This budget line includes funding for correction of environmental deficiencies at existing facilities; replacement, upgrade and modernization of obsolete or worn production equipment; and/or plant infrastructure.</td>
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**Justification:**
FY2006 and FY2007 funds are required to support 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. The Industrial Facilities funds also support the correction of environmental problems which, if left uncorrected, would result in costly fines and penalties.

Fiscal Year 2005 funds include a Congressional plus-up of $59.9 million.
### 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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<td>Engineering in Support of Industrial Facilities</td>
<td>50X3046</td>
<td>836</td>
<td>849</td>
<td>510</td>
<td>860</td>
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<tr>
<td>Various Army Ammunition Plants</td>
<td>Load, Assemble and Pack (LAP) Facilities Capitalization/Modernization Initiatives</td>
<td>50X3399</td>
<td>5430</td>
<td>6007</td>
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<tr>
<td>Various Army Ammunition Plants</td>
<td>Ammunition Metal Parts Facilities Capitalization/Modernization Initiatives</td>
<td>50X3866</td>
<td>655</td>
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<td>2136</td>
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<tr>
<td>Yuma Proving Gnd/Aberdeen Test Center</td>
<td>Production Support Equipment Replacement</td>
<td>50X5060</td>
<td>972</td>
<td>978</td>
<td>977</td>
<td>1014</td>
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**Subtotal - Production**

<table>
<thead>
<tr>
<th></th>
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<tbody>
<tr>
<td>55,943</td>
<td>99,168</td>
<td>33,532</td>
<td>34,029</td>
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</table>

**Environmental**

<table>
<thead>
<tr>
<th>Location</th>
<th>Project Title</th>
<th>Project No.</th>
<th>FY 2004</th>
<th>FY 2005</th>
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</thead>
<tbody>
<tr>
<td>Iowa Army Ammunition Plant</td>
<td>Contaminated Waste Processor (CWP)</td>
<td>5042949</td>
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<td>4733</td>
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<tr>
<td>Location</td>
<td>Project Title</td>
<td>Project</td>
<td>FY 2004</td>
<td>FY 2005</td>
</tr>
<tr>
<td>-----------------------------------------------</td>
<td>---------------------------------------------------</td>
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<td>---------</td>
<td>---------</td>
</tr>
<tr>
<td>Radford Army Ammunition Plant</td>
<td>Acid Wastewater Treatment Facility</td>
<td>5042894</td>
<td>2434</td>
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<tr>
<td>Radford Army Ammunition Plant</td>
<td>Production Support Equipment Replacement</td>
<td>5055326</td>
<td>269</td>
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<tr>
<td>Riverbank Army Ammunition Plant</td>
<td>Production Support Equipment Replacement</td>
<td>5055343</td>
<td>820</td>
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Subtotal - Environmental  

7,167 1,089 0 0

Total Industrial Facilities  

63,110 100,257 33,532 34,029
### Exhibit P-25 Industrial Facilities Cost Analysis (Dollars in Thousands)

<table>
<thead>
<tr>
<th>Element of Cost</th>
<th>FY 04</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>
<td></td>
</tr>
<tr>
<td>B. Equipment Costs</td>
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<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Subtotal Equipment Cost</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>C. Equipment Installation Cost</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>D. Contractor Support Cost</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>E. Corps of Engineers Support Cost</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>F. Other In-houses Support Costs</td>
<td>5475</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Total Facility Project Cost</td>
<td>5475</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>G. Other Costs</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1. Facility Prove-out Cost</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</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>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

#### J. Principal Milestones
1. Concept Design Complete: Not Applicable
2. Final Design Complete: Not Applicable
3. Initial/Final Project Award: Oct 2004/Apr 2005
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 2005 funds support additional security guards and enhanced force protection measures at the Army's active and semi-active ammunition plants.
### Exhibit P-25 Industrial Facilities Cost Analysis (Dollars in Thousands)

<table>
<thead>
<tr>
<th>Element of Cost</th>
<th>FY 04</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>
<td>8500</td>
</tr>
<tr>
<td>B. Equipment Costs</td>
<td></td>
<td></td>
<td></td>
<td>5700</td>
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</table>

#### 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>
<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>
</table>

#### J. Principal Milestones

<table>
<thead>
<tr>
<th>Month &amp; Year</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Concept Design Complete</td>
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<tr>
<td>2. Final Design Complete</td>
</tr>
<tr>
<td>3. Initial/Final Project Award</td>
</tr>
<tr>
<td>5. Equipment Installation Complete</td>
</tr>
<tr>
<td>6. Prove Out Begins</td>
</tr>
</tbody>
</table>

#### Narrative Explanation

FY 2005 funds support the replacement of the nitric acid concentrator/sulfuric acid concentrator (NAC/SAC) system and provides expanded acid capacity for propellant production at Radford Army Ammunition Plant. This project will initiate improvements to the acid plant and provide expanded acid and NC capacity for the manufacture of propellants.
**Exhibit P-25 Industrial Facilities Cost Analysis (Dollars in Thousands)**

<table>
<thead>
<tr>
<th>1. Date</th>
<th>February 2005</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>2. Project Title/Type</th>
<th>Load, Assemble and Pack (LAP) Modernization</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>3. End Item Supported Model</th>
<th>Artillery and Loaded Components</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>4. Project Number</th>
<th>5053202</th>
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<table>
<thead>
<tr>
<th>5. Annual Capacity Before (1-8-5)</th>
<th>Not Applicable</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>6. Annual Capacity After (1-8-5)</th>
<th>Not Applicable</th>
</tr>
</thead>
</table>

### Element of Cost

<table>
<thead>
<tr>
<th></th>
<th>FY 04</th>
<th>FY 05</th>
<th>FY 06</th>
<th>FY 07</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th><strong>A. Construction Cost</strong></th>
<th></th>
</tr>
</thead>
</table>

| **B. Equipment Costs** | 1375 |

*Individual equipment cost should be specified for all equipment costing more that $0.5 Million*

<table>
<thead>
<tr>
<th><strong>C. Equipment Installation Cost</strong></th>
<th>1000</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th><strong>D. Contractor Support Cost</strong></th>
<th>2500</th>
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</thead>
</table>

<table>
<thead>
<tr>
<th><strong>E. Corps of Engineers Support Cost</strong></th>
<th>1600</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th><strong>F. Other In-houses Support Costs</strong></th>
<th>6475</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th><strong>G. Other Costs</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Facility Prove-out Cost</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>H. Facility</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Name</td>
</tr>
<tr>
<td>2. Location</td>
</tr>
<tr>
<td>3. Type (GOGO, GOCO, COCO)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>I. Related Projects</strong></th>
</tr>
</thead>
</table>

| 1. Name | Lone Star Army Ammunition Plant |
| 2. Location | Texarkana, Texas |
| 3. Type (GOGO, GOCO, COCO) | GOCO |

<table>
<thead>
<tr>
<th><strong>J. Principal Milestones</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Concept Design Complete</td>
</tr>
<tr>
<td>2. Final Design Complete</td>
</tr>
<tr>
<td>3. Initial/Final Project Award</td>
</tr>
<tr>
<td>4. Construction Complete</td>
</tr>
<tr>
<td>5. Equipment Installation Complete</td>
</tr>
<tr>
<td>6. Prove Out Begins</td>
</tr>
<tr>
<td>7. Prove Out Complete</td>
</tr>
</tbody>
</table>

**Narrative Explanation**

Fiscal Year 2005 funds support 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 Industrial Facilities Cost Analysis (Dollars in Thousands)**

1. **Date:** February 2005

2. **Project Title/Type:** Explosive Manufacturing Alternatives Team (XMAT) Facility Initiative

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

<table>
<thead>
<tr>
<th>Element of Cost</th>
<th>FY 04</th>
<th>FY 05</th>
<th>FY 06</th>
<th>FY 07</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>A. Construction Cost</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>B. Equipment Costs</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>(Individual equipment cost should be specified for all equipment costing more that $0.5 Million)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1.</td>
<td></td>
<td></td>
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</tr>
<tr>
<td>2.</td>
<td></td>
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</tr>
<tr>
<td>3.</td>
<td></td>
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<td></td>
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</tr>
<tr>
<td><strong>Subtotal Equipment Cost</strong></td>
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<td></td>
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</tr>
<tr>
<td><strong>C. Equipment Installation Cost</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>D. Contractor Support Cost</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>E. Corps of Engineers Support Cost</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>F. Other In-houses Support Costs</strong></td>
<td>8000</td>
<td>9479</td>
<td>9385</td>
<td>9012</td>
</tr>
<tr>
<td><strong>Total Facility Project Cost</strong></td>
<td>8000</td>
<td>9479</td>
<td>9385</td>
<td>9012</td>
</tr>
<tr>
<td><strong>G. Other Costs</strong></td>
<td></td>
<td></td>
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<td></td>
</tr>
<tr>
<td>1. Facility Prove-out Cost</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>H. Facility</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>1. <strong>Name:</strong> Holston Army Ammunition Plant</td>
</tr>
<tr>
<td>2. <strong>Location:</strong> Kingsport, Tennessee</td>
</tr>
<tr>
<td>3. <strong>Type (GOGO, GOCO, COCO):</strong> GOCO</td>
</tr>
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<table>
<thead>
<tr>
<th><strong>I. Related Projects</strong></th>
</tr>
</thead>
</table>

<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>
</table>

<table>
<thead>
<tr>
<th><strong>J. Principal Milestones</strong></th>
<th><strong>Month &amp; Year</strong></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>Not Applicable</td>
</tr>
<tr>
<td>4. Construction Complete</td>
<td>Not Applicable</td>
</tr>
<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**

Fiscal Years 2006 and 2007 funding 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/replenishment planning, and support of the on-site Government staff.
# Exhibit P-25 Industrial Facilities Cost Analysis (Dollars in Thousands)

<table>
<thead>
<tr>
<th>Project Title/Type</th>
<th>3. End Item Supported Model</th>
</tr>
</thead>
<tbody>
<tr>
<td>Small Caliber Production Line Upgrades</td>
<td>7.62mm &amp; 5.56mm (all types); .50 cal (all types except SLAP-T)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>4. Project Number</th>
<th>5. Annual Capacity Before (1-8-5)</th>
<th>6. Annual Capacity After (1-8-5)</th>
</tr>
</thead>
<tbody>
<tr>
<td>50X3356</td>
<td>1.2B/year (3-8-7)</td>
<td>1.2B/year (3-8-7)</td>
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<table>
<thead>
<tr>
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<th>FY 04</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>
<td>9903</td>
<td>9323</td>
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<td>C. Equipment Installation Cost</td>
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</tr>
<tr>
<td>D. Contractor Support Cost</td>
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<tr>
<td>E. Corps of Engineers Support Cost</td>
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</tr>
<tr>
<td>F. Other In-houses Support Costs</td>
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<tr>
<td>G. Other Costs</td>
<td>14299</td>
<td>19323</td>
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<table>
<thead>
<tr>
<th>H. Facility</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Name</td>
<td>Lake City Army Ammunition Plant</td>
</tr>
<tr>
<td>Location</td>
<td>Independence, MO</td>
</tr>
<tr>
<td>Type (GOGO, GOCO, COCO)</td>
<td>GOCO</td>
</tr>
</tbody>
</table>

## 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>
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</table>

<table>
<thead>
<tr>
<th>J. Principal Milestones</th>
<th>Month &amp; Year</th>
</tr>
</thead>
<tbody>
<tr>
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</tr>
<tr>
<td>2. Final Design Complete</td>
<td>September 2005</td>
</tr>
<tr>
<td>3. Initial/Final Project Award</td>
<td>June 2005 June 2005</td>
</tr>
<tr>
<td>5. Equipment Installation Complete</td>
<td>December 2006</td>
</tr>
<tr>
<td>7. Prove Out Complete</td>
<td>March 2007</td>
</tr>
</tbody>
</table>

### Narrative Explanation

The Fiscal Year 2005 funds replacement of the 1940's-era gauge and weigh equipment with modern Manurhin cartridge loaders that will feature enhanced manufacturing and inspection capabilities at Lake City Army Ammunition Plant.
## Exhibit P-25 Industrial Facilities Cost Analysis (Dollars in Thousands)

1. **Date:** February 2005

### 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
- 50X3357

### 5. Annual Capacity Before (1-8-5)
- Not Applicable

### 6. Annual Capacity After (1-8-5)
- Not Applicable

### Element of Cost

<table>
<thead>
<tr>
<th>Element of Cost</th>
<th>FY 04</th>
<th>FY 05</th>
<th>FY 06</th>
<th>FY 07</th>
</tr>
</thead>
<tbody>
<tr>
<td>A. Construction Cost</td>
<td></td>
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<td></td>
<td></td>
</tr>
<tr>
<td>B. Equipment Costs (Individual equipment cost should be specified for all equipment costing more that $0.5 Million)</td>
<td>2000</td>
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<tr>
<td>C. Equipment Installation Cost</td>
<td></td>
<td>2000</td>
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<td></td>
</tr>
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<td>D. Contractor Support Cost</td>
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<td>1875</td>
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</tr>
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<td>E. Corps of Engineers Support Cost</td>
<td></td>
<td>855</td>
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</tr>
<tr>
<td>F. Other In-houses Support Costs</td>
<td>3474</td>
<td>6475</td>
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<td>G. Other Costs</td>
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</tr>
<tr>
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<tr>
<td>H. Facility</td>
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<tr>
<td>1. Name</td>
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<td></td>
</tr>
<tr>
<td>2. Location</td>
<td>Parsons, Kansas</td>
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</tr>
<tr>
<td>3. Type (GOGO, GOCO, COCO)</td>
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<td></td>
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</tbody>
</table>

### 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>
</table>

### J. Principal Milestones

1. Concept Design Complete
2. Final Design Complete
3. Initial/Final Project Award
4. Construction Complete
5. Equipment Installation Complete
6. Prove Out Begins
7. Prove Out Complete

### Narrative Explanation

The Fiscal Year 2005 funds support 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 Industrial Facilities Cost Analysis (Dollars in Thousands)

1. **Date:** February 2005

### 2. Project Title/Type
Load, Assemble and Pack (LAP) Facilities Capitalization/Modernization Initiatives

### 3. End Item Supported Model
Artillery, Tank, Mortar, and Mine Load Components

### 4. Project Number
50X3399

### 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 04</th>
<th>FY 05</th>
<th>FY 06</th>
<th>FY 07</th>
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<tbody>
<tr>
<td><strong>A. Construction Cost</strong></td>
<td>746</td>
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<td>3863</td>
<td>1375</td>
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<tr>
<td><strong>C. Equipment Installation Cost</strong></td>
<td>723</td>
<td>1508</td>
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<tr>
<td><strong>D. Contractor Support Cost</strong></td>
<td>37</td>
<td>204</td>
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<td><strong>E. Corps of Engineers Support Cost</strong></td>
<td>61</td>
<td>364</td>
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<tr>
<td><strong>F. Other In-houses Support Costs</strong></td>
<td>5430</td>
<td>6007</td>
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</table>

### **H. Facility**

1. **Name**
   - Various Army Ammunition Plants
2. **Location**
   - Various
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>Not Applicable</td>
<td></td>
<td></td>
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</tr>
</tbody>
</table>

### J. Principal Milestones

1. **Concept Design Complete**
   - Not Applicable
2. **Final Design Complete**
   - Not Applicable
3. **Initial/Final Project Award**
   - Mar 2006/Apr 2007
4. **Construction Complete**
   - December 2009
5. **Equipment Installation Complete**
   - January 2010
6. **Prove Out Begins**
   - Not Applicable
7. **Prove Out Complete**
   - Not Applicable

### Narrative Explanation
The Fiscal Years 2006-2007 funds support plant rearrangement, equipment relocation, plant consolidation, and capital improvements with emphasis on modernization of key electrical systems, production control, and computer systems. It includes necessary upgrades to facility infrastructure, safety, environmental, security, and production efforts.
### Exhibit P-25 Industrial Facilities Cost Analysis (Dollars in Thousands)

<table>
<thead>
<tr>
<th>4. Project Number</th>
<th>50X3407</th>
<th>5. Annual Capacity Before (1-8-5)</th>
<th>Not Applicable</th>
<th>6. Annual Capacity After (1-8-5)</th>
<th>Not Applicable</th>
</tr>
</thead>
</table>

#### A. Construction Cost

#### B. Equipment Costs (Individual equipment cost should be specified for all equipment costing more than $0.5 Million)

1. 
2. 
3. 

**Subtotal Equipment Cost**

#### C. Equipment Installation Cost

#### D. Contractor Support Cost

#### E. Corps of Engineers Support Cost

#### F. Other In-houses Support Costs

<table>
<thead>
<tr>
<th>Total Facility Project Cost</th>
<th>FY 04</th>
<th>FY 05</th>
<th>FY 06</th>
<th>FY 07</th>
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</thead>
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<tr>
<td>18975</td>
<td>13662</td>
<td>15000</td>
<td>15000</td>
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</tbody>
</table>

#### G. Other Costs

1. Facility Prove-out Cost

#### 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>
<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></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

#### 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 Years 2006 and 2007 funding ensures that necessary facilities are available to meet propellant requirements at the best cost and quality, and on time delivery for all Department of Defense (DOD) customers. This effort will result in having a capacity that meets peacetime and surge requirements.
### Exhibit P-25 Industrial Facilities Cost Analysis (Dollars in Thousands)

<table>
<thead>
<tr>
<th>1. Date:</th>
<th>February 2005</th>
</tr>
</thead>
<tbody>
<tr>
<td>2. Project Title/Type</td>
<td>Flexible Manufacturing Facility</td>
</tr>
<tr>
<td>3. End Item Supported Model</td>
<td>Deep-Drawn Cartridge Cases, 76mm, 5-Inch/54 Projectile, Grenade Metal Parts</td>
</tr>
<tr>
<td>4. Project Number</td>
<td>50X3804</td>
</tr>
<tr>
<td>5. Annual Capacity Before (1-8-5)</td>
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<td>6. Annual Capacity After (1-8-5)</td>
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#### Element of Cost

<table>
<thead>
<tr>
<th>FY 04</th>
<th>FY 05</th>
<th>FY 06</th>
<th>FY 07</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>A. Construction Cost</strong></td>
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<td></td>
<td></td>
</tr>
<tr>
<td><strong>B. Equipment Costs</strong> (Individual equipment cost should be specified for all equipment costing more that $0.5 Million)</td>
<td>1000</td>
<td>200</td>
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<tr>
<td><strong>C. Equipment Installation Cost</strong></td>
<td>1804</td>
<td>1600</td>
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<tr>
<td><strong>D. Contractor Support Cost</strong></td>
<td>140</td>
<td>400</td>
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<tr>
<td><strong>E. Corps of Engineers Support Cost</strong></td>
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<td><strong>F. Other In-houses Support Costs</strong></td>
<td>56</td>
<td>290</td>
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<tr>
<td><strong>Total Facility Project Cost</strong></td>
<td>3000</td>
<td>2490</td>
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<tr>
<td><strong>G. Other Costs</strong></td>
<td></td>
<td></td>
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</tr>
<tr>
<td><strong>H. Facility</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1. Name</td>
<td>Riverbank Army Ammunition Plant</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2. Location</td>
<td>Riverbank, California</td>
<td></td>
<td></td>
</tr>
<tr>
<td>3. Type (GOGO, GOCO, COCO)</td>
<td>GOCO</td>
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#### 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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</thead>
</table>

#### J. Principal Milestones

<table>
<thead>
<tr>
<th>Month &amp; Year</th>
<th>Month &amp; Year</th>
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</thead>
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<tr>
<td>1. Concept Design Complete</td>
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<td>3. Initial/Final Project Award</td>
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<tr>
<td>4. Construction Complete</td>
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</tr>
<tr>
<td>5. Equipment Installation Complete</td>
<td>September 2006</td>
</tr>
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<td>6. Prove Out Begins</td>
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</tr>
<tr>
<td>7. Prove Out Complete</td>
<td>Not Applicable</td>
</tr>
</tbody>
</table>

#### Narrative Explanation

Fiscal Year 2005 funds support the second phase in the establishment of a flexible metal parts production line that incorporates high-quality, state-of-the-art manufacturing technologies at Riverbank Army Ammunition Plant.
<table>
<thead>
<tr>
<th>Program Elements for Code B Items:</th>
<th>Code:</th>
<th>Other Related Program Elements:</th>
</tr>
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<tbody>
<tr>
<td>Proc Qty</td>
<td></td>
<td></td>
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<tr>
<td>Gross Cost</td>
<td>606.8</td>
<td>7.1</td>
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<tr>
<td>Less PY Adv Proc</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Plus CY Adv Proc</td>
<td></td>
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<td>Net Proc (P-1)</td>
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<tr>
<td>Initial Spares</td>
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<td>Total Proc Cost</td>
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<tr>
<td>Flyaway U/C</td>
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<tr>
<td>Wpn Sys Proc U/C</td>
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</table>

**Description:**
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.

**Justification:**
FY 2006/2007 funding provides protection and preservation of industrial facilities at active and semi-active installations and equipment that are no longer required for current production but must be retained for future peacetime, emergency or surge production needs. The Fiscal Year 2006/2007 funding breakout is as follows:

<table>
<thead>
<tr>
<th>FY 2006</th>
<th>FY 2007</th>
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<tbody>
<tr>
<td>Layaway (Retention)</td>
<td>$0.348</td>
</tr>
<tr>
<td>Decontamination (Downsize)</td>
<td>$0.900</td>
</tr>
<tr>
<td><strong>TOTAL</strong></td>
<td><strong>$0.348</strong></td>
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<tr>
<td>Location</td>
<td>Project Title</td>
</tr>
<tr>
<td>----------------------------------------------</td>
<td>-------------------------------------------------------------------------------</td>
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<tr>
<td>Active and Semi-Active Government-Owned</td>
<td>Retain (RT) - Layaway (Lwy) and Decontaminate</td>
</tr>
<tr>
<td>Facilities</td>
<td>(DS)Minor Efforts less than $0.100M</td>
</tr>
<tr>
<td></td>
<td>Active Government-Owned</td>
</tr>
<tr>
<td>Facilities</td>
<td>Layaway and Decontamination at Active Ammunition Plants (Efforts over $0.100M)</td>
</tr>
<tr>
<td></td>
<td>Total</td>
</tr>
</tbody>
</table>
**Exhibit P-17 Layaway and/or Distribution**

**Appropriation / Budget / Serial No.**
Procurement of Ammunition, Army / 2 / Ammunition production base support

**P-1 Item Nomenclature**
LAYAWAY OF INDUSTRIAL FACILITIES

<table>
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<td>Funding</td>
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<td>2.043</td>
<td>.312</td>
<td>3.126</td>
<td>3.351</td>
<td>5.164</td>
<td>9.659</td>
<td>9.877</td>
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</table>

**Title:** Layaway and Decontamination at Active Ammunition Plants (Efforts over $0.100M)

**Description:** Fiscal Years (FYs) 2006 and 2007 efforts provide for the preserving and storing of industrial facilities and equipment at active facilities no longer required to support current production. Efforts include relocation of equipment at Louisiana and Mississippi Army Ammunition Plants (AAP) to other government and commercial facilities. FY 2006 includes the layaway of equipment and facilities used to produce M8 Terephthalic Acid (TA) Smoke Pots in order to preserve capability at Pine Bluff Arsenal.

FY 2007 funds will layaway production presses, miscellaneous assembly equipment, fixtures, and gauging equipment that support 120mm M8301 tank rounds on Lines 1 and 2 at Iowa AAP. Based on environmental regulations, it will decontaminate equipment prior to disposal at McAlester AAP and close Fly Ash Landfill No.2 at Radford AAP. Also at Radford, funds support the decontamination/disposal of 30 buildings in the Horseshoe Area. At Lone Star AAP, project will decontaminate, clean, preserve, and rehabilitate M67 grenade production equipment and facilities. Equipment includes, but is not limited to, the melt/pour equipment, facing machines, drying facilities, grenade assembly equipment, stencil machines, marking and taping machines, and conveyors. Project eliminates the K-20 Boiler House, built in 1941 which is no longer repairable, by installing new steam lines to bypass the boiler and connect to the trailer mount boiler in Area Q.

**Manufacturer (Name and Location)**
Active Government-Owned Facilities

**Production Lines being laid away (Include Location)**
Various

**Production Ends**
Not Applicable

**Layaway Cost:** .312

**Other Costs:** .000

**Annual Maintenance Cost:** .000
### 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:
FY 2006-2007 funding provides for the care and maintenance of laid away equipment and facilities at active and semi-active ammunition plants.
### AMMO Cost Analysis

**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:** MAINTENANCE OF INACTIVE FACILITIES (EP1500)
- **Weapon System Type:** 
- **Date:** February 2005

<table>
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<tr>
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<td>TotalCost</td>
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<td>$000</td>
<td>$000</td>
<td>$000</td>
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<tr>
<td></td>
<td><strong>INACTIVE LINES AT ACTIVE PLANTS</strong></td>
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<tr>
<td></td>
<td>Crane Army Ammunition Activity</td>
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<td>160</td>
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<td>147</td>
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<td></td>
<td>Holston Army Ammunition Plant (AAP)</td>
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<td></td>
<td>Iowa AAP</td>
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<td></td>
<td>Lone Star AAP</td>
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<td>McAlester AAP</td>
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<td></td>
<td>Milan AAP</td>
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<td>Pine Bluff Arsenal</td>
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<td>534</td>
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<td>Radford AAP</td>
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<td></td>
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<td></td>
<td>Hawthorne Army Depot</td>
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<td>784</td>
<td>855</td>
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<td><strong>INACTIVE LINES AT SEMI-ACTIVE PLANTS</strong></td>
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<td></td>
<td>Mississippi AAP</td>
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<td>400</td>
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<td></td>
<td><strong>SUBTOTAL</strong></td>
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<td>400</td>
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<tr>
<td></td>
<td><strong>Total</strong></td>
<td>4805</td>
<td>4727</td>
<td>5001</td>
<td>4928</td>
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</tbody>
</table>

**EP1500**
MAINTENANCE OF INACTIVE FACILITIES  
Item No. 40  Page 2 of 2  
556  
Exhibit P-5  
Weapon System Cost Analysis
### Description:
The conventional munition demilitarization program funds the demilitarization and resource recovery of conventional ammunition and demilitarizes missile 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.

FY 2005 fundings includes a congressional plus-up of $9.4 million.
### AMMO Cost Analysis

<table>
<thead>
<tr>
<th>AMMO Cost Elements</th>
<th>FY 04</th>
<th>FY 05</th>
<th>FY 06</th>
<th>FY 07</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>$000</td>
<td>Tons</td>
<td>$000</td>
<td>Tons</td>
</tr>
<tr>
<td>CONVENTIONAL MUNITIONS DEMIL, ALL TYPES</td>
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<td></td>
<td></td>
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<tr>
<td>EP1800-Conventional Ammo Demil (SMCA)</td>
<td>89523</td>
<td>104367</td>
<td>81332</td>
<td>93139</td>
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<tr>
<td>EP1801-0th Non-Army Svs Demil(Non-SMCA)</td>
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<td></td>
<td>2057</td>
<td>2356</td>
</tr>
<tr>
<td>EP1802-Army Missile Demil</td>
<td></td>
<td></td>
<td>18515</td>
<td>21208</td>
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<tr>
<td>EP1803-Non-Army Missile Demil</td>
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<td></td>
<td>1029</td>
<td>1179</td>
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<tr>
<td>Total</td>
<td>89523</td>
<td>104367</td>
<td>102933</td>
<td>117882</td>
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</table>

**Procurement of Ammunition, Army / 2 / Ammunition production base support**

Conventional Munitions Demilitarization, All Types (EP1700)

Exhibit P-5

Conventional Munitions Demilitarization, All Types

Item No. 41  Page 2 of 6

EP1700

Weapon System Cost Analysis

February 2005
### 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:
As of 31 December 2004 the conventional ammunition demilitarization account contained over 407,738 tons of ammunition in CONUS wholesale storage locations. In Fiscal Year (FY) 2004, demilitarization accomplishments totaled 41,369 tons and 56,752 tons of ammunition generated into the demilitarization account. Estimates for FY 2005 accomplishments are 43,472 tons, with an estimated 77,125 tons to generate into the account. As of 31 December 2004, demilitarization of 10,349 tons of ammunition has been accomplished, and 16,157 tons have generated into the account. Accomplishments over the next five years should average 50,000 tons per year, with generations averaging 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 within the next five years. At this rate the demilitarization account continues to grow.

The demilitarization program supports readiness as a source of supply for components required in new production. Critical explosives such as TNT and tritonal, and components such as depleted uranium penetrators and supplementary charges are removed during demilitarization and reused in new production. The continuing requirement to store munitions to be demilitarized has 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, the philosophy of indefinitely storing obsolete items will result in ever increasing demilitarization liabilities in the future.
### AMMO Cost Analysis

<table>
<thead>
<tr>
<th>AMMO Cost Elements</th>
<th>TotalCost FY 04</th>
<th>Qty FY 04</th>
<th>UnitCost FY 04</th>
<th>TotalCost FY 05</th>
<th>Qty FY 05</th>
<th>UnitCost FY 05</th>
<th>TotalCost FY 06</th>
<th>Qty FY 06</th>
<th>UnitCost FY 06</th>
<th>TotalCost FY 07</th>
<th>Qty FY 07</th>
<th>UnitCost FY 07</th>
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</thead>
<tbody>
<tr>
<td>CONVENTIONAL AMMO DEMIL (SMCA)</td>
<td></td>
<td></td>
<td></td>
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<td></td>
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<td></td>
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**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**
Army Missile Demilitarization (EP1802)

**Program Elements for Code B Items:**

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**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 aggressive R3 integrated program has been established by AMCOM which 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) (SSN 1800) in FY 2004 and FY 2005.
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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 the Fiscal Year (FY) 1993 Defense Authorization Act, Public Law (PL) 102-484 which was codified in October 2001 PL 106-398. 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. 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 Years (FY) 2006/2007 funds provide for financial incentives and loan guarantees to attract revenue-producing tenants to locate on the 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.

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<td>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 the Fiscal Year (FY) 1993 Defense Authorization Act, Public Law (PL) 102-484 which was codified in October 2001 PL 106-398. 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. 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.</td>
<td><strong>Justification:</strong> Fiscal Years (FY) 2006/2007 funds provide for financial incentives and loan guarantees to attract revenue-producing tenants to locate on the 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.</td>
</tr>
</tbody>
</table>
## AMMO Cost Elements

<table>
<thead>
<tr>
<th>ID</th>
<th>FY 04</th>
<th>FY 05</th>
<th>FY 06</th>
<th>FY 07</th>
</tr>
</thead>
<tbody>
<tr>
<td>CD</td>
<td>TotalCost</td>
<td>Qty</td>
<td>UnitCost</td>
<td>TotalCost</td>
</tr>
<tr>
<td></td>
<td>$000</td>
<td>Each</td>
<td>$000</td>
<td>Each</td>
</tr>
<tr>
<td>Financial Incentives</td>
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<td>Environmental Baselines</td>
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<td>Loan Guarantees</td>
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<td>Administrative Support</td>
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<td>882</td>
<td>850</td>
<td>850</td>
</tr>
<tr>
<td><strong>Total</strong></td>
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<td><strong>4725</strong></td>
<td><strong>2745</strong></td>
<td><strong>2768</strong></td>
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</table>

Date: February 2005