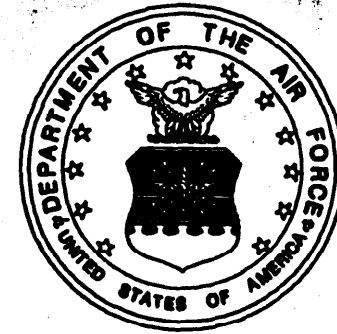


UNCLASSIFIED

DEPARTMENT OF THE AIR FORCE



PROCUREMENT PROGRAM

FISCAL YEARS 1999
BUDGET ESTIMATES .

PROCUREMENT OF AMMUNITION

FEBRUARY 1998 .

UNCLASSIFIED

DEPARTMENT OF THE AIR FORCE
 PROCUREMENT OF AMMUNITION APPROPRIATION ESTIMATES
 FOR FISCAL YEARS 1999

Table of Contents

| | |
|-----------------------------------|------------|
| Table of Contents | <u>i</u> |
| Identification Codes and Glossary | <u>iii</u> |
| Program Exhibit P-1 | <u>iv</u> |

| <u>P- 1 Line No.</u> | <u>Item</u> | <u>Page No.</u> |
|----------------------|--|-----------------|
| 1 | 2.75 Inch Rocket Motor | 1 |
| 3 | 2.75" Rocket, Flare IR | 6 |
| 4 | Items Less Than \$2,000,000 (Rockets & Launchers) | 11 |
| 5 | 5.56 mm | 13 |
| 5 | 30 mm Training | 21 |
| 8 | Cartridge Chaff RR- 180 | 25 |
| 9 | Cartridge Chaff RR- 188 | 30 |
| 10 | Signal MK-4 Mod 3 | 33 |
| 11 | Items Less Than \$2,000,000 (Cartridges) | 37 |
| 12 | MK-82 Inert/BDU-50 | 39 |
| 13 | GBU-28 Hard Target Penetrator | 44 |
| 14 | GBU-37 | 50 |
| 15 | Bomb Practice 25 Pound | 54 |
| 16 | 2000 Ib HE Bomb MK-84 | 58 |
| 17 | MK-84 Bomb Empty | 63 |
| 18 | Sensor Fuzed Weapon | 68 |

DEPARTMENT OF THE AIR FORCE
PROCUREMENT OF AMMUNITION APPROPRIATION ESTIMATES
FOR FISCAL YEARS 1999

Table of Contents

| | | |
|---------------------------|--|------------|
| 20 | Joint Direct Attack Munition | 73 |
| 21 | Wind Corrected Munitions Dispenser | 78 |
| 22 | Items Less Than \$2,000,000 (Bombs) | 82 |
| 24 | ASTE (Infrared Expendable) | 84 |
| 25 | Flare, IR MJU-7B | 91 |
| 26 | MJU- 1 O/B Flare | 96 |
| 27 | M-206 Cartridge Flare | 101 |
| 28 | CAD/PAD | 106 |
| 29 | LUU- 19 Flare | 103 |
| 30 | Replenishment Spares | 111 |
| 31 | Modifications | 113 |
| 32 | Items Less Than \$2,000,000 (Other Items) | 115 |
| 33 | Joint Programmable Fuze (JPF) | 116 |
| <u>SMALL ARMS</u> | | |
| 34 | M- 16 A2 Rifle | 121 |
| 35 | 9mm Compact Pistol | 126 |
| 36 | M-9 Pistol | 131 |
| 37 | Items Less Than \$2,000,000 (Small Arms) | 135 |

IDENTIFICATION CODES

Code "A" - Line items of material which have been approved for Air Force service use; i. e., line items which have been classified as standard or alternate.

Code "B" - Line items of material that have not been approved for Service use as defined in Code "A".

GLOSSARY

Contract Method

C - Competitive
SS - Sole Source

Contract Type

C/FP - Competitive/Fixed Price
CPAF - Cost Plus Award Fee
FFP - Firm Fixed Price
FP - Fixed Price
FPIF - Fixed Priced Incentive Fee
C/FFP - Competitive Firm Fixed Price

Contracted By

AFMC - Air Force Materiel Command, Wright-Patterson AFB, OH
ASC - Aeronautical Systems Center, Wright - Patterson AFB, OH & Eglin AFB, FL
00-ALC - Ogden Air Logistics Center, Hill AFB, UT
WR-ALC - Warner-Robins Air Logistics Center, Robins AFB, GA
AMCCOM - See IOC
IOC - Industrial Operations Command, Rock Island, IL
NOC - Navy Ordnance Command, Mechanicsburg PA
SPCC - See NOC

UNCLASSIFIED .

DEPARTMENT OF THE AIR FORCE

FY 1999 PROCUREMENT PROGRAM

SUMMARY
(\$ IN MILLIONS)

FEB 1998

APPROPRIATION: PROCUREMENT OF AMMUNITION, AIR FORCE

| ACTIVITY ----- | FY 1997 ----- | FY 1998 --W-S-- | FY 1999 ----- |
|--|------------------|--------------------|------------------|
| 01. PROCUREMENT OF AMMO , AIR FORCE | 295.2 | 383.9 | 378.6 |
| 02. WEAPONS | 16.2 | 8.0 | 5.6 |
| TOTAL | ----- 311.4 | ----- 391.9 | ----- 384.2 |

UNCLASSIFIED

DEPARTMENT OF THE AIR FORCE
FY 1999 PROCUREMENT PROGRAM

EXHIBIT P-1

APPROPRIATION: **3011F** PROCUREMENT OF AMMUNITION, AIR FORCE

DATE: FEB 1998

| LINE NO | ITEM NOMENCLATURE | IDENT CODE | (DOLLARS) | | MILLIONS OF DOLLARS | | | | S E C | |
|--|-------------------------------|---------------|----------------------|-------|---------------------|-----------------|---------------------|-----------------|-------------|---------------------|
| | | | FY 1999 UNIT COST | | FY 1997 QUANTITY | FY 1997 COST | FY 1998 QUANTITY | FY 1998 COST | | FY 1999 QUANTITY |
| BUDGET ACTIVITY 01 : PROCUREMENT OF AMMO, AIR FORCE | | | | | | | | | | |
| ROCKETS | | | | | | | | | | |
| 1 | 3.75 INCH ROCKET MOTOR | A | 553 | 25392 | 9.9 | 21930 | 8.2 | 6139 | 3.4 | u |
| 2 | 2.75" ROCKET BEAD SIGNATURE | A | | 25360 | 1.8 | 8388 | .6 | | | U |
| 3 | 2.75 IN ROCKET, FLARE IR | A | 1,064 | | | | | 2530 | 2.7 | U |
| 4 | ITEMS LESS TAAN \$2,000,000 | A | | | 1.3 | | .1 | | 2.0 | u |
| CARTRIDGES | | | | | | | | | | |
| 5 | 5.56 MM | A | 269 | 13487 | 6.7 | 23273 | 7.4 | 20026 | 5.4 | u |
| 6 | 20MM TRAINING | A | | 435 | 2.7 | | 1.7 | | | U |
| 7 | 30 MM TRAINING | A | 7,145 | 408 | 3.2 | 3543 | 26.1 | 769 | 5.5 | u |
| 8 | CARTRIDGE CHAFF RR-180 | A | 14,667 | | | 845 | 12.1 | 795 | 11.7 | u |
| 9 | CARTRIDGE CHAFF RR-188 | A | 2,908 | 507 | 1.4 | | | 876 | 2.5 | u |
| 10 | SIGNAL MK-4 MOD 3 | A | 2,923 | | | 596 | 1.1 | 260 | .8 | u |
| 11 | ITEMS LESS THAN \$2,000,000 | A | | | 4.0 | | 4.1 | | 5.4 | u |
| BOMBS | | | | | | | | | | |
| 12 | MK-82 INERT/BDU-50 | A | 765 | 12750 | 6.3 | 22612 | 19.0 | 29368 | 22.5 | U |
| 13 | GBU-28 HARD TARGET PENETRATOR | A | 148,809 | 177 | 18.4 | 72 | 11.4 | 163 | 24.3 | U |

* ITEMS UNDER \$50,000

UNCLASSIFIED

PAGE F-12

UNCLASSIFIED

DEPARTMENT OF THE AIR FORCE
FY 1999 PROCUREMENT PROGRAM

EXHIBIT P-1

APPROPRIATION: 3011F PROCUREMENT OF AMMUNITION, AIR FORCE

DATE: FEE 1998

| LINE NO | ITEM NOMENCLATURE | IDENT CODE | (DOLLARS) | | MILLIONS OF DOLLARS | | | | S E C | |
|------------|------------------------------------|---------------|----------------------|----------|---------------------|---------------------|-----------------|---------------------|-------------|-----------------|
| | | | FY 1999 UNIT COST | QUANTITY | FY 1997 COST | FY 1998 QUANTITY | FY 1998 COST | FY 1999 QUANTITY | | FY 1999 COST |
| 14 | GBU - 37 | A | 97,700 | | | | 10 | 1.0 | u | |
| 15 | BOMB PRACTICE 25 POUND | A | 14 | 200000 | 2.9 | 397760 | 5.6 | 266001 | 3.8 | u |
| 16 | 2000 LB HE BOMB MK-84 | A | 4,870 | | | | 1928 | 9.4 | u | |
| 17 | MK-84 BOMB-EMPTY | A | 2,466 | 1500 | 3.5 | 994 | 2.5 | 2894 | 7.1 | U |
| 18 | SENSOR FUZED WEAPON | A | 427,091 | 542 | 149.5 | 556 | 150.2 | 295 | 126.0 | U |
| 19 | TTU-373A DIGITAL TEST SET | A | | 13 | 5.1 | | | | | U |
| 20 | JOINT DIRECT ATTACK MUNITION | A | 24,305 | 937 | 23.0 | 2400 | 54.9 | 2187 | 53.2 | U |
| 21 | WIND CORRECTED MUNITIONS DISPENSER | A | 20,505 | | | 280 | 12.0 | 676 | 13.9 | u |
| 22 | ITEMS LESS THAN \$2,000,000 | A | | | .5 | | .2 | | 2.1 | u |
| 23 | ITEMS LESS THAN \$2,000,000 | A | | | .1 | | | | | U |
| | FLARE, IR MJU-7B | | | | | | | | | |
| 24 | ASTE (INFRARED EXPENDABLE) | A | 143 | | | | 34154 | | 4.9 | u |
| 25 | FLARE, IR MJU-7B | A | 24 | 899640 | 20.0 | 617640 | 13.7 | 355826 | a.9 | u |
| 26 | MJU-10B | A | 52 | 214584 | 12.7 | 175536 | 10.6 | 198602 | 10.4 | u |
| 27 | M206 CARTRIDGE FLARE | A | 12 | 1045000 | 12.8 | 1033417 | 16.5 | 881944 | 11.4 | u |
| 28 | CAD/PAD | A | | | | | 12.7 | | 14.3 | u |

* ITEMS UNDER \$50,000

UNCLASSIFIED

PAGE F-13

UNCLASSIFIED

DEPARTMENT OF THE AIR FORCE
FY 1999 PROCUREMENT PROGRAM

EXHIBIT P-1

APPROPRIATION: 3011F PROCUREMENT OF AMMUNITION, AIR FORCE

DATE: FEB 1998

| MILLIONS OF DOLLARS | | | | | | | | | | |
|-------------------------------------|--------------------------------|---------------------|---|----------|-------|-------------|-------|----------|-------|-------------|
| LINE NO | ITEM NOMENCLATURE | IDENT CODE -m-m- | (DOLLARS) FY 1999 UNIT COST -w-w-a | FY 1997 | | FY 1998-a-a | | FY 1999 | | S E C |
| | | | | QUANTITY | COST | QUANTITY | COST | QUANTITY | COST | |
| 29 | LUU-19 FLARE | A | 1,104 | | | | | 3926 | 4.3 | u |
| 30 | REPLENISHMENT SPARES | A | | | 1.7 | | .9 | | 1.9 | u |
| 31 | MODIFICATIONS | A | | | .5 | | 2.1 | | * | u |
| 32 | ITEMS LESS THAN \$2,000,000 | A | | | 3.2 | | 4.6 | | 4.4 | u |
| FUZES | | | | | | | | | | |
| 33 | JOINT PROGRAMMABLE FUSE(JPF) , | B | 3,969 | 356 | 4.1 | 1226 | 5.7 | 3861 | 15.3 | u |
| TOTAL PROCUREMENT OF AMD, AIR FORCE | | | | | 295.2 | | 303.9 | | 378.6 | |
| BUDGET ACTIVITY 02: WEAPONS | | | | | | | | | | |
| ----- | | | | | | | | | | |
| SMALL ARMS | | | | | | | | | | |
| 34 | M-16A2 RIFLE | A | | | 15.5 | | 6.0 | | 4.5 | u |
| 35 | 9MM COMPACT PISTOL | A | 672 | 113 | .1 | 273 | .2 | 345 | .2 | u |
| 36 | M-9 PISTOL | A | 486 | | | 1652 | 1.0 | 1576 | .8 | u |
| 37 | ITEMS LESS THAN \$2M | A | | | .6 | | .8 | | .1 | u |
| TOTAL WEAPONS | | | | | 16.2 | | 8.0 | | 5.6 | |

* ITEMS UNDER \$50,000

UNCLASSIFIED

| BUDGET ITEM JUSTIFICATION (EXHIBIT P-40) | | | | | | | DATE FEBRUARY 1998 | |
|---|---------|---------|---------------------------------|------------|---|----------|------------------------------|----------|
| APPROPRIATION/BUDGET ACTIVITY PAAF/MUNITIONS AND RELATED EQUIPMENT | | | | | P-1 ITEM NOMENCLATURE 2.75 INCH ROCKET MOTOR | | | |
| | FY 1996 | FY 1997 | FY 1998 | FY 1999 | FY 2000 | FY 2001 | FY 2002 | FY 2003 |
| QUANTITY | | 25,392 | 21,930 | 6,096 | 33,928 | 34,068 | 32,267 | 42,058 |
| COST (In Millions) | | \$9.941 | \$8.190 | \$3.399 | \$14.028 | \$14.374 | \$14.029 | \$18.442 |
| REMARKS | | | | | | | | |
| <p>1. THIS IS A 2.75 INCH DIAMETER ROCKET WITH FOLDING FINS USED WITH HIGH EXPLOSIVE, WHITE PHOSPHOROUS, OR TARGET PRACTICE WARHEADS. THE ROCKETS CAN BE FIRED FROM HIGH OR LOW SPEED AIRCRAFT. IN THE AIR FORCE, THE 2.75 INCH ROCKET IS USED PRIMARILY TO MARK TARGET LOCATIONS FOR OTHER AIRCRAFT. ROCKETS ARE LAUNCHED FROM REUSABLE PODS CARRIED ON AIRCRAFT PYLONS AND ARE THE PRIMARY TARGET MARKING MUNITION USED BY FORWARD AIR CONTROL AIRCRAFT. THREE VERSIONS OF THE 2.75 INCH ROCKET MOTOR ARE IN USE : MK 4, MK 40 AND MK 66. ONLY THE MK 66 (MODs 1, 2, AND 3) IS CURRENTLY IN PRODUCTION.</p> <p>2. BEGINNING IN FY99 THE USAF WILL BEGIN TO PROCURE THE MK66 MOD 4 RKT MOTOR. THE TECHNICAL ENHANCEMENTS OFFERED BY THE MOD 4 ARE: A. COMPLETE HERO (HAZARDS OF ELECTRO-MAGNETIC RADIATION TO ORDNANCE), ESD (ELECTRO-STATIC DISCHARGE AND EMP (ELECTRO-MAGNETIC PULSE) PROTECTION ON ALL US AIRCRAFT UNDER ALL OPERATIONAL CONDITIONS, B. IGNITION SYSTEM INTEROPERABILITY ON ALL US MILITARY AIRCRAFT, C. 90% REDUCTION IN PRESSURIZATION LOADS TO PROPELLANT GRAIN DURING IGNITION, D. REDUCES IGNITION DELAY VARIABILITY BY 75%, E. MOD 4 IGNITER SIMPLIFIES THE PRODUCTION PROCESS BY REDUCING THE SAFETY REQUIREMENTS VS THE MOD 2, F. MOD 4 HAS A NOTICEABLY REDUCED VISIBLE FLASH ON IGNITION, G. MOD 4 HAS AN IMPROVED GROUNDING CIRCUIT.</p> <p>3. THE MOD 4 MOTOR HAS BEEN DESIGNED TO BECOME THE TRI-SERVICE MOTOR FOR THE 2.75" ROCKET MISSION AND TO REPLACE THE VARIOUS MOD'S CURRENTLY USED BY THE DOD.</p> <p>4. THIS ITEM IS PROCURED BY THE SINGLE MANAGER FOR CONVENTIONAL AMMUNITION. FY 97/98 COST IS BASED ON CONVENTIONAL AMMUNITION WORKING CAPITAL FUND (CAWCF) STANDARD PRICING. FY 99 COST BASED ON ESTIMATED CONTRACT/SUPPORT COSTS.</p> <p>5. FY99 QUANTITIES DIFFER FROM P-1 ENTRIES DUE TO UPDATED COST ESTIMATES.</p> | | | | | | | | |
| | | | P-1 SHOPP LIST ITEM NO. 1 | PAGE NO. 1 | | | | |

UNCLASSIFIED

UNCLASSIFIED

| AMMUNITION COST ANALYSIS | | | | | | | | | | | | (DOLLARS IN THOUSANDS) | | |
|----------------------------------|---------------|------------------|-----------|--------------|------------------|-----------|---------|-----------------|-----------|---------------|------|------------------------|-------|--|
| APPROPRIATION AND P-1 LINE ITEM | | | | | | | | | | DATE: | | | | |
| PAAF | | | | | | | | | | FEBRUARY 1998 | | | | |
| 2.75 INCH ROCKET MOTOR | | | | | | | | | | | | | | |
| ELEMENT OF COST | IDENT CODE | FY97 QTY: 25,392 | | | FY98 QTY: 21,930 | | | FY99 QTY: 6,096 | | | QTY: | | | |
| | | QTY | UNIT COST | TOTAL | QTY | UNIT COST | TOTAL | QTY | UNIT COST | TOTAL | QTY | UNIT COST | TOTAL | |
| <u>HARDWARE</u> | | | | | | | | | | | | | | |
| LOAD, ASSEMBLE, AND PACK (LAP) | A | 25392 | \$115.34 | \$2,929 | 21930 | \$114.18 | \$2,504 | | | | | | | |
| MK90 PROPELLANT GRAIN | | 27170 | \$189.96 | \$5,161 | 23473 | \$194.38 | \$4,563 | | | | | | | |
| COMPLETE ROUND | | | | | | | | 6096 | \$471.90 | \$2,877 | | | | |
| SUBTOTAL | | | | \$8,090 | | | \$7,067 | | | \$2,877 | | | | |
| <u>PRODUCTION SUPPORT</u> | | | | | | | | | | | | | | |
| PRODUCTION ENGINEERING | | | | \$370 | | | \$702 | | | \$483 | | | | |
| QUALITY ASSURANCE | | | | \$11 | | | \$18 | | | \$39 | | | | |
| ACCEPTANCE TESTING | | | | \$88 | | | \$81 | | | | | | | |
| INTERIM TRANSPORTATION | | | | \$77 | | | \$51 | | | | | | | |
| INDUSTRIAL STOCK SUPPORT | | | | \$320 | | | \$271 | | | | | | | |
| CAWCF GAIN/LOSS SURCHARGE | | | | \$985 | | | \$0 | | | | | | | |
| SUBTOTAL | | | | \$1,851 | | | \$1,123 | | | \$522 | | | | |
| TOTAL P-1 LINE ITEM | | 25392 | \$391.49 | \$9,941 | 21930 | \$373.33 | \$8,190 | 6096 | \$557.37 | \$3,399 | | | | |
| | | | | P-1 ITEM NO. | PAGE NO 2. | | | EXHIBIT P-5 | | | | | | |
| | | | | 1 | | | | PAGE 1 OF 1 | | | | | | |

UNCLASSIFIED

UNCLASSIFIED

BUDGET PROCUREMENT HISTORY PLANNING (P-5A)

A. DATE
FEBRUARY 1998

| B. APPROPRIATION/BUDGET ACTIVITY PAAF/MUNITIONS AND RELATED EQUIPMENT | | | | C. P-1 ITEM NOMENCLATURE 2.75 INCH ROCKET MOTOR | | | | | | |
|---|-------------------------|------------------------------|---------------------------|---|------------------------------|----------|--------------|-----------------------|----------------------|--------------------------|
| LINE ITEM/ FISCAL YEAR | CONTRACTOR/ LOCATION | CONTRACT METHOD & TYPE | CONTRACTED BY | AWARD DATE | DATE OF FIRST DELIVERY | QUANTITY | UNIT COST | SPECS AVAIL NOW | SPEC REV REQ'D | IF YES, WHEN AVAIL |
| 2.75 INCH ROCKET MOTOR | | | | | | | | | | |
| FY 1997 | LOCKHEED MARTIN# | C/FP (OPTION) | ARMY/IOC (AFMC/OO-ALC) | APR 97 | NOV 98 | 25392 | 391.49 | | | |
| FY 1998 | UNKNOWN | C/FP | ARMY/IOC (AFMC/OO-ALC) | APR 98 | OCT 99 | 21930 | 373.33 | YES | NO | |
| FY 1999 | UNKNOWN | C/FP | ARMY/IOC (AFMC/OO-ALC) | APR 99 | OCT 00 | 6096 | 557.37 | YES | NO | |

D. REMARKS

LOCKHEED MARTIN IS IN BURLINGTON, VT.

UNCLASSIFIED

| BUDGET ITEM JUSTIFICATION (EXHIBIT P-40) | | | | | | | DATE FEBRUARY 1998 | |
|--|---------|---------|---------------------------------|------------|---|---------|-----------------------|---------|
| APPROPRIATION/BUDGET ACTIVITY PAAF/MUNITIONS AND RELATED EQUIPMENT | | | | | P-1 ITEM NOMENCLATURE 2.75 IN ROCKET, FLARE IR | | | |
| | FY 1996 | FY 1997 | FY 1998 | FY 1999 | FY 2000 | FY 2001 | FY 2002 | FY 2003 |
| QUANTITY | | 0 | 0 | 2562 | 0 | 0 | 0 | 0 |
| COST (In Millions) | | \$0 | \$0 | \$2.693 | \$0 | \$0 | \$0 | \$0 |
| REMARKS | | | | | | | | |
| <p>1. THE 2.75 INCH DIAMETER WARHEAD IS USED WITH 2.75 INCH ROCKET MOTORS TO PROVIDE AIRCRAFT WITH TARGET ILLUMINATING CAPABILITY FROM A SAFE STANDOFF DISTANCE IN A HOSTILE ENVIRONMENT. THE M278 ILLUMINATING WARHEAD CONSISTS OF AN IGNITION SYSTEM, FLARE MAIN PARACHUTE, DROGUE PARACHUTE ASSEMBLY, AND AN INTEGRAL FUZE AND DELAY ASSEMBLY. THE WARHEAD IS ENCLOSED IN AN ALUMINUM CASE. THE FUZE AND CANDLE IGNITER ARMING ARE ACTUATED BY ROCKET MOTOR ACCELERATION. THE CANDLE, WHEN ACTUATED IS SUSPENDED FROM THE MAIN CHUTE. THE CANDLE DESCENDS AT 13 FPS, BURNS FOR 180 SECONDS WITH A LIGHT OUTPUT OF 222 WATTS PER STERABIAN IN THE NEAR INFRARED SPECTRUM, AND A MAXIMUM OF 1000 CANDLEPOWER IN THE VISIBILE SPECTRUM.</p> <p>2. THIS ITEM IS PROCURED BY THE SINGLE MANAGER FOR CONVENTIONAL AMMUNITION (SMCA). FY 99 COST IS BASED UPON ESTIMATED CONTRACT/SUPPORT COSTS.</p> <p>3. FY 99 QUANTITIES DIFFER FROM P-1 ENTRIES DUE TO UPDATED COST ESTIMATES.</p> | | | | | | | | |
| | | | P-1 SHOPP LIST ITEM NO. 3 | PAGE NO. 6 | | | | |

UNCLASSIFIED

UNCLASSIFIED

| AMMUNITION COST ANALYSIS (DOLLARS IN THOUSANDS) | | | | | | | | | | | | | | | |
|--|---------------|------|-----------|-------------------|------|-----------|------------|------|------------|----------------------------|-----|-----------|-------|--|--|
| APPROPRIATION AND P-1 LINE ITEM PAAF 2.75 IN ROCKET, FLARE IR | | | | | | | | | | DATE: FEBRUARY 1998 | | | | | |
| ELEMENT OF COST | IDENT CODE | QTY: | | | QTY: | | | FY99 | QTY: 2,562 | | | QTY: | | | |
| | | QTY | UNIT COST | TOTAL | QTY | UNIT COST | TOTAL | QTY | UNIT COST | TOTAL | QTY | UNIT COST | TOTAL | | |
| <u>HARDWARE</u> | | | | | | | | | | | | | | | |
| COMPLETE ROUND | A | | | | | | | 2562 | \$983.98 | \$2,521 | | | | | |
| SUBTOTAL | | | | | | | | | | \$2,521 | | | | | |
| <u>PRODUCTION SUPPORT</u> | | | | | | | | | | | | | | | |
| PRODUCTION ENGINEERING | | | | | | | | | | \$157 | | | | | |
| QUALITY ASSURANCE | | | | | | | | | | \$15 | | | | | |
| ACCEPTANCE TESTING | | | | | | | | | | | | | | | |
| INTERIM TRANSPORTATION | | | | | | | | | | | | | | | |
| INDUSTRIAL STOCK SUPPORT | | | | | | | | | | | | | | | |
| CAWCF GAIN/LOSS SURCHARGE | | | | | | | | | | | | | | | |
| SUBTOTAL | | | | | | | | | | \$172 | | | | | |
| TOTAL P-1 LINE ITEM | | | | | | | | 2562 | \$1,050.08 | \$2,693 | | | | | |
| | | | | P-1 ITEM NO. 3 | | | PAGE NO. 7 | | | EXHIBIT P-5 PAGE 1 OF 1 | | | | | |

UNCLASSIFIED

UNCLASSIFIED

BUDGET PROCUREMENT HISTORY PLANNING (P-5A)

A. DATE
FEBRUARY 1998

| B. APPROPRIATION/BUDGET ACTIVITY PAAF/MUNITIONS AND RELATED EQUIPMENT | | | | C. P-1 ITEM NOMENCLATURE 2.75 IN ROCKET, FLARE IR | | | | | | |
|---|-------------------------|------------------------------|---------------|---|------------------------------|----------|--------------|-----------------------|----------------------|--------------------------|
| LINE ITEM/ FISCAL YEAR | CONTRACTOR/ LOCATION | CONTRACT METHOD & TYPE | CONTRACTED BY | AWARD DATE | DATE OF FIRST DELIVERY | QUANTITY | UNIT COST | SPECS AVAIL NOW | SPEC REV REQ'D | IF YES, WHEN AVAIL |

| | | | | | | | | | | |
|----------|-------------|------|---------------------------|--------|--------|------|---------|-----|----|--|
| FY 1997# | THIOL CORP@ | C/FP | ARMY/IOC (AFMC/OO-ALC) | MAR 97 | JUL 99 | 1743 | 764.54 | | | |
| FY 1999 | UNKNOWN | C/FP | ARMY/IOC (AFMC/OO-ALC) | APR 99 | OCT 00 | 2562 | 1050.08 | YES | NO | |

| D. REMARKS | | |
|-------------------|---|------------|
| # | FY 97 BOUGHT WITH ITEMS LESS THAN \$2,000,000, ROCKETS AND LAUNCHERS; P-1 LINE ITEM # 4 | |
| @ | THIOL CORPORATION ORDNANCE OPERATION, UTAH DIVISION, LOCATED IN BRIGHAM CITY, UTAH | |
| | P-1 SHOPP LIST ITEM NO 3 | PAGE NO. 8 |
| Exhibit P-5A | | |

UNCLASSIFIED

| BUDGET ITEM JUSTIFICATION (EXHIBIT P-40) | | | | | | | DATE FEBRUARY 1998 | |
|---|---------|---------|---------------------------------|-------------|--|---------|------------------------------|---------|
| APPROPRIATION/BUDGET ACTIVITY PAAF/MUNITIONS AND RELATED EQUIPMENT | | | | | P-1 ITEM NOMENCLATURE ITEMS LESS THAN \$2,000,000 (ROCKETS AND LAUNCHERS) | | | |
| | FY 1996 | FY 1997 | FY 1998 | FY 1999 | FY 2000 | FY 2001 | FY 2002 | FY 2003 |
| QUANTITY | | | | | | | | |
| COST (in Millions) | | \$1.334 | \$0.050 | \$2.042 | \$2.265 | \$2.287 | \$2.324 | \$2.676 |
| REMARKS | | | | | | | | |
| <p>1. THIS CATEGORY CONSISTS OF ROCKET LAUNCHERS, METEOROLOGICAL ROCKETS FOR GATHERING WEATHER DATA, AND VARIOUS ROCKET AND LAUNCHER COMPONENTS.</p> <p>2. ALL ITEMS HAVE AN ANNUAL PROCUREMENT VALUE OF LESS THAN \$2,000,000 AND ARE CODE A. ITEMS REQUESTED ARE IDENTIFIED ON THE FOLLOWING P-40A.</p> | | | | | | | | |
| | | | P-1 SHOPP LIST ITEM NO. 4 | PAGE NO. 11 | | | | |

UNCLASSIFIED

UNCLASSIFIED

| BUDGET ITEM JUSTIFICATION FOR AGGREGATED ITEMS (EXHIBIT P-40A) | | | | | | | DATE: FEBRUARY 1998 | | |
|---|---------------|-------|-------------------|-------|--|--------|----------------------|-------|------|
| APPROPRIATION/BUDGET ACTIVITY PAAF/MUNITIONS AND RELATED EQUIPMENT | | | | | P-1 NOMENCLATURE: ITEMS LESS THAN \$2,000,000 (ROCKETS AND LAUNCHERS) | | | | |
| PROCUREMENT ITEMS | IDENT CODE | FY 97 | | FY 98 | | FY 99 | | FY 00 | |
| | | QTY | COST | QTY | COST | QTY | COST | QTY | COST |
| 2.75 INCH SIGNATURE WARHEAD (H872) | A | | | | | 12,168 | \$861 | | |
| 2.75 INCH ILLUMINATION ROCKET | A | | | | | 1,368 | \$1,181 | | |
| TOTAL P-1 LINE ITEM | | | | | | | \$2,042 | | |
| | | | P-1 ITEM NO. 4 | | PAGE NO: 12 | | P-40a PAGE 1 OF 1 | | |

UNCLASSIFIED

UNCLASSIFIED

| BUDGET ITEM JUSTIFICATION (EXHIBIT P-40) | | | | | | | DATE FEBRUARY 1998 | |
|---|---------|---------|---------------------------------|-------------|----------------------------------|---------|------------------------------|---------|
| APPROPRIATION/BUDGET ACTIVITY PAAF/MUNITIONS AND RELATED EQUIPMENT | | | | | P-1 ITEM NOMENCLATURE 5.56 MM | | | |
| | FY 1996 | FY 1997 | FY 1998 | FY 1999 | FY 2000 | FY 2001 | FY 2002 | FY 2003 |
| QUANTITY <small>(In Thousands)</small> | | 17,487 | 22,808 | 20,274 | 19,034 | 19,034 | 19,034 | 19,034 |
| COST <small>(In Millions)</small> | | \$6.714 | \$7.421 | \$5.394 | \$7.301 | \$7.456 | \$7.600 | \$7.749 |
| REMARKS | | | | | | | | |
| <p>1. THIS CARTRIDGE IS USED IN THE M-16 RIFLE AND THE SQUAD AUTOMATIC WEAPON (SAW). THE M-16 IS USED BY ALL PERSONNEL REQUIRED TO BE ARMED TO DEFEND AIR FORCE RESOURCES FROM ATTACK OR TO REPEL TERRORISTS. THE SAW HAS THE SAME BASIC MISSION BUT HAS A HIGHER RATE OF FIRE. FORCES SUPPORTED ARE PRIMARILY SECURITY AND AIR BASE DEFENSE PERSONNEL. TOTAL REQUIREMENTS INCLUDE WAR RESERVE STOCKS, ANNUAL REQUALIFICATION TRAINING REQUIREMENTS, INITIAL TRAINING ALLOWANCES AND A PIPELINE STOCK LEVEL TO MAINTAIN DELIVERY FLOW TO INDIVIDUAL UNITS.</p> <p>2. THE FY 98 AND FY 99 PROGRAMS ARE FOR 5.56MM BALL (A071) USED WITH THE M-16 RIFLE, AND 5.56MM BALL LINKED (A062) AND 5.56MM LINKED BALL AND TRACER (A064) AND 5.56 BLANK (A075) USED WITH THE SAW.</p> <p>3. FY 98/99 QUANTITIES DIFFER FROM P-1 ENTRIES DUE TO UPDATED COST ESTIMATES.</p> <p>THESE ITEMS ARE PROCURED BY THE SINGLE MANAGER FOR CONVENTIONAL AMMUNITION. FY97/98 COSTS ARE BASED ON CONVENTIONAL AMMUNITION WORKING CAPITAL FUND (CAWCF) STANDARD PRICING. FY 99 COST IS BASED UPON ESTIMATED CONTRACT/SUPPORT COSTS.</p> | | | | | | | | |
| | | | P-1 SHOPP LIST ITEM NO. 5 | PAGE NO. 13 | | | | |

UNCLASSIFIED

UNCLASSIFIED

| AMMUNITION COST ANALYSIS (DOLLARS/QUANTITY IN THOUSANDS) | | | | | | | | | | | | | |
|--|------------|--------|-----------|--------------|-------------|-----------|-------|-------------|-----------|---------------|-----------|-----------|-------|
| APPROPRIATION AND P-1 LINE ITEM | | | | | | | | | | DATE: | | | |
| PAAF 5.56MM | | | | | | | | | | FEBRUARY 1998 | | | |
| ELEMENT OF COST | IDENT CODE | QTY: 0 | | | FY98 | | | FY99 | | | QTY: 1199 | | |
| | | QTY | UNIT COST | TOTAL | QTY | UNIT COST | TOTAL | QTY | UNIT COST | TOTAL | QTY | UNIT COST | TOTAL |
| HARDWARE | | | | | | | | | | | | | |
| 5.56MM BALL M855 LINKED (A062) | A | | | | | | | | | | | | |
| LOAD, ASSEMBLE & PACK (LAP) | | | | | 1347 | \$0.34 | \$461 | 1199 | \$0.32 | \$388 | | | |
| PROPELLANT MC844 (LB) | | | | | 6 | \$6.55 | \$35 | | | | | | |
| LINK M27 | | | | | | \$0.02 | \$23 | | | | | | |
| SUBTOTAL | | | | | | | \$519 | | | \$388 | | | |
| PRODUCTION SUPPORT | | | | | | | | | | | | | |
| PRODUCTION ENGINEERING | | | | | | | \$53 | | | \$14 | | | |
| QUALITY ASSURANCE | | | | | | | \$1 | | | | | | |
| ACCEPTANCE TESTING | | | | | | | \$6 | | | | | | |
| INTERIM TRANSPORTATION | | | | | | | \$4 | | | | | | |
| INDUSTRIAL STOCK SUPPORT | | | | | | | \$19 | | | \$8 | | | |
| CAWCF GAIN/LOSS SURCHARGE | | | | | | | | | | | | | |
| SUBTOTAL | | | | | | | \$83 | | | \$22 | | | |
| TOTAL 5.56MM BALL | | | | | | | | | | | | | |
| LINKED, FOR SAW (A062) | | | | | 1347 | \$0.45 | \$602 | 1199 | \$0.34 | \$410 | | | |
| | | | | P-1 ITEM NO. | PAGE NO. 14 | | | EXHIBIT P-5 | | | | | |
| | | | | 5 | | | | PAGE 1 OF 4 | | | | | |

UNCLASSIFIED

| AMMUNITION COST ANALYSIS (DOLLARS IN THOUSANDS) | | | | | | | | | | | | | |
|---|------------|--------|-----------|---------|------|-----------|-------|------|-----------|---------------|------|-----------|-------|
| APPROPRIATION AND P-1 LINE ITEM | | | | | | | | | | DATE: | | | |
| PAAF | | | | | | | | | | FEBRUARY 1998 | | | |
| ELEMENT OF COST | IDENT CODE | 5.56MM | | | FY98 | | | FY99 | | | QTY: | | |
| | | FY97 | QTY: | 3488 | QTY: | 970 | QTY: | 3359 | QTY: | 3359 | QTY: | TOTAL | |
| | | QTY | UNIT COST | TOTAL | QTY | UNIT COST | TOTAL | QTY | UNIT COST | TOTAL | QTY | UNIT COST | TOTAL |
| HARDWARE | | | | | | | | | | | | | |
| 5.56MM BALL TRACER, SAW (A064) | A | | | | | | | | | | | | |
| LOAD, ASSEMBLE & PACK (LAP) | | 3488 | \$0.40 | \$1,401 | 970 | \$0.38 | \$367 | 3359 | \$0.35 | \$1,188 | | | |
| PROPELLANT MC844T (LB) | | 3 | \$5.83 | \$16 | 1 | \$6.55 | \$5 | | | | | | |
| PROPELLANT MC844 (LB) | | 11 | \$5.83 | \$67 | 3 | \$6.55 | \$20 | | | | | | |
| LINK M27 | | 3561 | \$0.02 | \$53 | 990 | \$0.02 | \$17 | | | | | | |
| SUBTOTAL | | | | \$1,537 | | | \$409 | | | \$1,188 | | | |
| PRODUCTION SUPPORT | | | | | | | | | | | | | |
| PRODUCTION ENGINEERING | | | | \$63 | | | \$42 | | | \$16 | | | |
| QUALITY ASSURANCE | | | | \$2 | | | \$1 | | | \$1 | | | |
| ACCEPTANCE TESTING | | | | \$17 | | | \$5 | | | | | | |
| INTERIM TRANSPORTATION | | | | \$15 | | | \$3 | | | | | | |
| INDUSTRIAL STOCK SUPPORT | | | | | | | \$13 | | | \$24 | | | |
| CAWCF GAIN/LOSS SURCHARGE | | | | \$180 | | | | | | | | | |
| SUBTOTAL | | | | \$277 | | | \$64 | | | \$41 | | | |
| TOTAL 5.56MM BALL TRACER FOR SAW (A064) | | 3488 | \$0.52 | \$1,814 | 970 | \$0.49 | \$473 | 3359 | \$0.37 | \$1,229 | | | |

UNCLASSIFIED

AMMUNITION COST ANALYSIS (DOLLARS IN THOUSANDS)

APPROPRIATION AND P-1 LINE ITEM

DATE:

PAAF

5.56MM

FEBRUARY 1998

| ELEMENT OF COST | IDENT CODE | FY97 | | | FY98 | | | FY99 | | | QTY: | | |
|--------------------------------|------------|-------|-----------|---------|-------|-----------|---------|-------|-----------|---------|------|-----------|-------|
| | | QTY | UNIT COST | TOTAL | QTY | UNIT COST | TOTAL | QTY | UNIT COST | TOTAL | QTY | UNIT COST | TOTAL |
| HARDWARE | | | | | | | | | | | | | |
| 5.56MM BALL (A071) | A | | | | | | | | | | | | |
| LOAD, ASSEMBLE & PACK (LAP) | | 13999 | \$0.26 | \$3,575 | 20490 | \$0.23 | \$4,776 | 14831 | \$0.22 | \$3,325 | | | |
| METAL BOX M2A1 | | 17 | \$5.07 | \$87 | 25 | \$5.74 | \$143 | 18 | \$5.57 | \$101 | | | |
| PROPELLANCE WC844 (LB) | | 56 | \$5.83 | \$326 | 85 | \$6.55 | \$556 | | | | | | |
| SUBTOTAL | | | | \$3,988 | | | \$5,475 | | | \$3,426 | | | |
| PRODUCTION SUPPORT | | | | | | | | | | | | | |
| PRODUCTION ENGINEERING | | | | \$182 | | | \$560 | | | \$20 | | | |
| QUALITY ASSURANCE | | | | \$6 | | | \$14 | | | \$2 | | | |
| ACCEPTANCE TESTING | | | | \$43 | | | \$63 | | | | | | |
| INTERIM TRANSPORTATION | | | | \$38 | | | \$39 | | | \$2 | | | |
| INDUSTRIAL STOCK SUPPORT | | | | \$157 | | | \$195 | | | \$68 | | | |
| CAWCF GAIN/LOSS SURCHARGE | | | | \$486 | | | | | | | | | |
| SUBTOTAL | | | | \$912 | | | \$871 | | | \$92 | | | |
| TOTAL 5.56MM BALL(A071) | | 13999 | \$0.35 | \$4,900 | 20490 | \$0.31 | \$6,346 | 14831 | \$0.24 | \$3,518 | | | |

UNCLASSIFIED

UNCLASSIFIED

AMMUNITION COST ANALYSIS (DOLLARS IN THOUSANDS)

APPROPRIATION AND P-1 LINE ITEM

DATE:

PAAF

5.56MM

FEBRUARY 1998

| ELEMENT OF COST | IDENT CODE | FY97 QTY: 0 | | | FY98 QTY: 0 | | | FY99 QTY: 885 | | | QTY: | | |
|---|------------|-------------|-----------|---------|-------------|-----------|---------|---------------|-----------|---------|------|-----------|-------|
| | | QTY | UNIT COST | TOTAL | QTY | UNIT COST | TOTAL | QTY | UNIT COST | TOTAL | QTY | UNIT COST | TOTAL |
| HARDWARE | | | | | | | | | | | | | |
| 5.56MM BLANK, SAW (A075) | A | | | | | | | | | | | | |
| LOAD, ASSEMBLE & PACK (LAP) | | | | | | | | 885 | \$0.26 | \$228 | | | |
| PROPEELANT MC814 (LB) | | | | | | | | | | | | | |
| LINK M27 | | | | | | | | | | | | | |
| SUBTOTAL | | | | | | | | | | \$228 | | | |
| PRODUCTION SUPPORT | | | | | | | | | | | | | |
| PRODUCTION ENGINEERING | | | | | | | | | | \$4 | | | |
| QUALITY ASSURANCE | | | | | | | | | | | | | |
| ACCEPTANCE TESTING | | | | | | | | | | | | | |
| INTERIM TRANSPORTATION | | | | | | | | | | | | | |
| INDUSTRIAL STOCK SUPPORT | | | | | | | | | | \$5 | | | |
| CAWCF GAIN/LOSS SURCHARGE | | | | | | | | | | | | | |
| SUBTOTAL | | | | | | | | | | \$9 | | | |
| TOTAL 5.56MM BLANK, FOR SAW (A075) | | | | | | | | 885 | \$0.27 | \$237 | | | |
| TOTAL P-1 LINE ITEM | | | | \$6,714 | | | \$7,421 | | | \$5,394 | | | |

UNCLASSIFIED

BUDGET PROCUREMENT HISTORY PLANNING (P-5A)

A. DATE
FEBRUARY 1998

| B. APPROPRIATION/BUDGET ACTIVITY PAAF/MUNITIONS AND RELATED EQUIPMENT | | | | C. P-1 ITEM NOMENCLATURE 5.56MM | | | | | | |
|---|-------------------------|------------------------------|---------------------------|---|------------------------------|-----------|--------------|-----------------------|----------------------|--------------------------|
| LINE ITEM/ FISCAL YEAR | CONTRACTOR/ LOCATION | CONTRACT METHOD & TYPE | CONTRACTED BY | AWARD DATE | DATE OF FIRST DELIVERY | QUANTITY | UNIT COST | SPECS AVAIL NOW | SPEC REV REQ'D | IF YES, WHEN AVAIL |
| 5.56MM BALL, M855 LINKED, FOR SAW (A062) | | | | | | | | | | |
| FY 1998 | OLIN/LCAAP# | SS/CPAF | ARMY/IOC (AFMC/OO-ALC) | NOV 97 | OCT 98 | 1,347,000 | .45 | | | |
| FY 1999 | OLIN/LCAAP | SS/CPAF | ARMY/IOC (AFMC/OO-ALC) | NOV 98 | OCT 99 | 1,199,000 | .34 | YES | NO | |
| 5.56MM BALL TRACER FOR SAW (A064) | | | | | | | | | | |
| FY 1997 | OLIN/LCAAP# | SS/CPAF | AMRY/IOC (AFMC/OO-ALC) | MAR 97 | OCT 97 | 3,488,000 | .52 | | | |
| FY 1998 | OLIN/LCAAP | SS/CPAF | AMRY/IOC (AFMC/OO-ALC) | NOV 97 | OCT 98 | 970,098 | .49 | | | |
| FY 1999 | OLIN/LCAAP | SS/CPAF | ARMY/IOC (AFMC/OO-ALC) | NOV 98 | OCT 99 | 3,359,000 | .37 | YES | NO | |
| ***CONTINUED ON NEXT PAGE *** | | | | | | | | | | |

D. REMARKS
#OLIN CORPORATION IS PRODUCING THESE ITEMS AT LAKE CITY ARMY AMMUNITION PLANT, INDEPENDENCE, MO.

P-1 SHOPP LIST
ITEM NO.
5

PAGE 18

Exhibit P-5A
PAGE 1 OF 2

UNCLASSIFIED

| BUDGET PROCUREMENT HISTORY PLANNING (P-5A) | | | | | | | | A. DATE FEBRUARY 1998 | | |
|--|-------------------------|------------------------------|------------------|--|------------------------------|----------|--------------|----------------------------------|----------------------|--------------------------|
| B. APPROPRIATION/BUDGET ACTIVITY PAAF/MUNITIONS AND RELATED EQUIPMENT | | | | C. P-1 ITEM NOMENCLATURE 5.56MM (CONTINUED) | | | | | | |
| LINE ITEM/ FISCAL YEAR | CONTRACTOR/ LOCATION | CONTRACT METHOD & TYPE | CONTRACTED BY | AWARD DATE | DATE OF FIRST DELIVERY | QUANTITY | UNIT COST | SPECS AVAIL NOW | SPEC REV REQ'D | IF YES, WHEN AVAIL |

| | | | | | | | | | | |
|--|-------------|---------|---------------------------|--------|--------|------------|-----|-----|----|--|
| 5.56MM BALL (A071) | | | | | | | | | | |
| FY 1997 | OLIN/LCAAP# | SS/CPAF | ARMY/IOC (AFMC/OO-ALC) | MAR 97 | OCT 97 | 13,999,440 | .35 | | | |
| FY 1998 | OLIN/LCAAP | SS/CPAF | ARMY/IOC (AFMC/OO-ALC) | NOV 97 | OCT 98 | 20,490,345 | .31 | | | |
| FY 1999 | OLIN/LCAAP | SS/CPAF | ARMY/IOC (AFMC/OO-ALC) | NOV 98 | OCT 99 | 14,831,000 | .24 | YES | NO | |
| 5.56MM BLANK, M200, LINKED FOR SAW (A075) | | | | | | | | | | |
| FY 1995 | OLIN/LCAAP# | SS/CPAF | ARMY/IOC (AFMC/OO-ALC) | APR 95 | DEC 95 | 1,456,000 | .27 | | | |
| FY 1999 | OLIN/LCAAP | SS/CPAF | ARMY/IOC (AFMC/OO-ALC) | NOV 98 | OCT 99 | 885,000 | .27 | YES | NO | |

| | | | |
|---|---------------------------------|---------|-----------------------------|
| D. REMARKS #OLIN CORPORATION IS PRODUCING THESE ITEMS AT LAKE CITY ARMY AMMUNITION PLANT, INDEPENDENCE, MO. | | | |
| | P-1 SHOPP LIST ITEM NO. 5 | PAGE 19 | Exhibit P-5A PAGE 2 OF 2 |

UNCLASSIFIED

| BUDGET ITEM JUSTIFICATION (EXHIBIT P-40) | | | | | | | DATE FEBRUARY 1998 | |
|--|---------|---------|---------------------------------|-------------|---|----------|------------------------------|---------|
| APPROPRIATION/BUDGET ACTIVITY PAAF/MUNITIONS AND RELATED EQUIPMENT | | | | | P-1 ITEM NOMENCLATURE 30 MM TRAINING | | | |
| | FY 1996 | FY 1997 | FY 1998 | FY 1999 | FY 2000 | FY 2001 | FY 2002 | FY 2003 |
| QUANTITY (In Thousands) | | 408 | 3,543 | 777 | 2,160 | 2,170 | 2,188 | 2,507 |
| COST (In Millions) | | \$3.160 | \$26.080 | \$5.495 | \$17.361 | \$17.783 | \$18.285 | \$21357 |
| REMARKS | | | | | | | | |
| <p>1. THIS CARTRIDGE IS A 30MM ROUND WITH A SOLID, INERT PROJECTILE USED TO TRAIN AIRCREWS IN THE USE OF THE GAU-8/A CANNON ON THE A-10 AIRCRAFT AND THE GPU-5/A 30MM GUN POD ON THE F-16 AIRCRAFT. THE CARTRIDGE IS MECHANICALLY PRIMED AND HAS NO FUZE, WHILE THE PROJECTILE IS A SOLID SLUG DESIGNED TO MATCH THE BALLISTICS OF HIGH EXPLOSIVE INCENDIARY (HEI) AND ARMOR PIERCING INCENDIARY (API) CARTRIDGES.</p> <p>2. THIS ITEM IS PROCURED BY THE SINGLE MANAGER FOR CONVENTIONAL AMMUNITION. FY 97/98 COSTS ARE BASED ON CONVENTIONAL AMMUNITION WORKING CAPITAL FUND (CAWCF) STANDARD PRICING. FY 99 COST BASED ON ESTIMATED CONTRACT/SUPPORT COSTS.</p> <p>3. FY 99 QUANTITIES DIFFER FROM P-1 ENTRIES DUE TO UPDATED COST ESTIMATES.</p> | | | | | | | | |
| | | | P-1 SHOPP LIST ITEM NO. 7 | PAGE NO. 21 | | | | |

UNCLASSIFIED

UNCLASSIFIED

| AMMUNITION COST ANALYSIS (DOLLARS IN THOUSANDS) | | | | | | | | | | | | | |
|---|------------|--------|-----------|---------|---------|-----------|----------|--------|-----------|---------------|------|-----------|-------|
| APPROPRIATION AND P-1 LINE ITEM | | | | | | | | | | DATE: | | | |
| PAAF 30MM TRAINING | | | | | | | | | | FEBRUARY 1998 | | | |
| ELEMENT OF COST | IDENT CODE | FY97 | | | FY98 | | | FY99 | | | QTY: | | |
| | | QTY | UNIT COST | TOTAL | QTY | UNIT COST | TOTAL | QTY | UNIT COST | TOTAL | QTY | UNIT COST | TOTAL |
| HARDWARE | | | | | | | | | | | | | |
| LOAD, ASSEMBLE, AND PACK (LAP) | A | 408250 | \$5.86 | \$2,396 | 3543150 | \$6.40 | \$22,676 | 777400 | \$6.68 | \$5,194 | | | |
| CONTAINER CNU-332E | | 719 | \$269.33 | \$198 | 6379 | \$178.56 | \$1,139 | 1400 | \$110.19 | \$155 | | | |
| TUBE | | 418789 | \$0.15 | \$64 | 3632386 | \$0.17 | \$632 | | | | | | |
| STRAP | | 841663 | \$0.03 | \$24 | 7300210 | \$0.03 | \$234 | | | | | | |
| SUBTOTAL | | | | \$2,682 | | | \$24,681 | | | \$5,349 | | | |
| PRODUCTION SUPPORT | | | | | | | | | | | | | |
| QUALITY ASSURANCE | | | | \$4 | | | \$62 | | | \$5 | | | |
| ACCEPTANCE TESTING | | | | \$29 | | | \$284 | | | \$20 | | | |
| INTERIM TRANSPORTATION | | | | \$25 | | | \$178 | | | \$3 | | | |
| INDUSTRIAL STOCK SUPPORT | | | | \$107 | | | \$875 | | | \$118 | | | |
| CAWCF GAIN/LOSS SURCHARGE | | | | \$313 | | | | | | | | | |
| SUBTOTAL | | | | \$478 | | | \$1,399 | | | \$146 | | | |
| TOTAL P-1 LINE ITEM | | 408250 | \$7.73 | \$3,160 | 3543150 | \$7.36 | \$26,080 | 777400 | \$7.06 | \$5,495 | | | |

UNCLASSIFIED

BUDGET PROCUREMENT HISTORY PLANNING (P-5A)

A. DATE
FEBRUARY 1998

| B. APPROPRIATION/BUDGET ACTIVITY PAAF/MUNITIONS AND RELATED EQUIPMENT | | | | C. P-1 ITEM NOMENCLATURE 30MM TRAINING | | | | | | |
|---|-------------------------|------------------------------|---------------------------|--|------------------------------|----------|--------------|-----------------------|----------------------|--------------------------|
| LINE ITEM/ FISCAL YEAR | CONTRACTOR/ LOCATION | CONTRACT METHOD & TYPE | CONTRACTED BY | AWARD DATE | DATE OF FIRST DELIVERY | QUANTITY | UNIT COST | SPECS AVAIL NOW | SPEC REV REQ'D | IF YES, WHEN AVAIL |
| 30MM TRAINING | | | | | | | | | | |
| FY 1997 | PRIMEX@ | C/FP | ARMY/IOC (AFMC/OO-ALC) | DEC 97 | SEP 98 | 408250 | 7.73 | | | |
| FY 1998 | UNKNOWN | C/FP | ARMY/IOC (AFMC/OO-ALC) | MAR 98 | MAR 99 | 3543150 | 7.36 | YES | NO | |
| FY 1999 | UNKNOWN | C/FP | ARMY/IOC (AFMC/OO-ALC) | MAR 99 | MAR 00 | 777400 | 7.06 | YES | NO | |

D. REMARKS
@ PRIMEX TECHNICAL SYSTEMS IS LOCATED IN MARION, IL

P-1 SHOPP LIST
ITEM NO.
7

PAGE 23

Exhibit P-5A

UNCLASSIFIED

| BUDGET ITEM JUSTIFICATION (EXHIBIT P-40) | | | | | | | DATE FEBRUARY 1998 | |
|---|---------|---------|---------------------------------|-------------|---|----------|------------------------------|----------|
| APPROPRIATION/BUDGET ACTIVITY PAAF/MUNITIONS AND RELATED EQUIPMENT | | | | | P-1 ITEM NOMENCLATURE CARTRIDGE CHAFF RR-180 | | | |
| | FY 1996 | FY 1997 | FY 1998 | FY 1999 | FY 2000 | FY 2001 | FY 2002 | FY 2003 |
| QUANTITY (In Thousands) | | 0 | 845 | 795 | 801 | 802 | 668 | 821 |
| COST (In Millions) | | \$0 | \$12.088 | \$11.661 | \$11.568 | \$11.809 | \$10.032 | \$12.580 |
| REMARKS | | | | | | | | |
| <p>1. THE RR-180 CHAFF CARTRIDGE PROVIDES AIRBORNE COUNTERMEASURE CAPABILITY TO DISPENSE MULTIPLE FREQUENCY REFLECTING DIPOLES FOR THE PURPOSE OF INTERRUPTING THE TRACKING OF THE FLIGHT PATH BY RADAR EQUIPMENT. THE CHAFF CARTRIDGE FITS INTO A MULTIPLE CARTRIDGE MAGAZINE (MJU-11) WHICH IS INSTALLED IN AN AN/ALE-45 CHAFF FLARE DISPENSING SYSTEM ON THE F-15 AND IN AN AN/ALE-40 DISPENSING SYSTEM ON THE A-10, F-111, F-16, C-130 AND C-5 AIRCRAFT. THE RR-180 IS DISPENSED FROM THE MAGAZINE WITH A BBU-48 CARTRIDGE.</p> <p>2. THE CHAFF CARTRIDGE CONSISTS OF A TWO-CHAMBER SQUARE PLASTIC TUBE CONTAINING A RECEPTACLE FOR AN IMPULSE CARTRIDGE (BBU-48), TWO PISTONS, TWO CHAMBERS WITH DIPOLES, AND TWO RUBBER END CAPS, EACH SECURED WITH TWO END CAP LUGS.</p> | | | | | | | | |
| | | | P-1 SHOPP LIST ITEM NO. 8 | PAGE NO. 25 | | | | |

UNCLASSIFIED

UNCLASSIFIED

| AMMUNITION COST ANALYSIS (DOLLARS IN THOUSANDS) | | | | | | | | | | | | | |
|---|---------------|--|-----------|-------------------|--|-------------|----------|--|-----------|------------------------|------|-----------|-------|
| APPROPRIATION AND P-1 LINE ITEM PAAF CARTRIDGE CHAFF RR-180 | | | | | | | | | | DATE: FEBRUARY 1998 | | | |
| ELEMENT OF COST | IDENT CODE | FY97 QTY: 0 | | | FY98 QTY: 845 | | | FY99 QTY: 795 | | | QTY: | | |
| | | QTY | UNIT COST | TOTAL | QTY | UNIT COST | TOTAL | QTY | UNIT COST | TOTAL | QTY | UNIT COST | TOTAL |
| RR-180 HARDWARE | A | | | | 844680 | \$6.73 | \$5,685 | 795000 | \$6.89 | \$5,477 | | | |
| BBU-48 HARDWARE | A | | | | 844680 | \$7.58 | \$6,403 | 798000 | \$7.75 | \$6,184 | | | |
| TOTAL P-1 LINE ITEM | | | | | | | \$12,088 | | | \$11,661 | | | |
| | | | | P-1 ITEM NO. 8 | | PAGE NO: 26 | | EXHIBIT P-5 PAGE 1 OF 1 | | | | | |

UNCLASSIFIED

UNCLASSIFIED

BUDGET PROCUREMENT HISTORY PLANNING (P-5A)

A. DATE
FEBRUARY 1998

| B. APPROPRIATION/BUDGET ACTIVITY | | | | C. P-1 ITEM NOMENCLATURE | | | | | | |
|---|---------------------------------|---|---------------------------|---------------------------------|---------------------------------------|-----------------|----------------------|--------------------------------|-------------------------------|-----------------------------------|
| PAAF/MUNITIONS AND RELATED EQUIPMENT | | | | CARTRIDGE CHAFF RR-180 | | | | | | |
| LINE ITEM/ FISCAL YEAR | CONTRACTOR/ LOCATION | CONTRACT METHOD & TYPE | CONTRACTED BY | AWARD DATE | DATE OF FIRST DELIVERY | QUANTITY | UNIT COST | SPECS AVAIL NOW | SPEC REV REQ'D | IF YES, WHEN AVAIL |
| CARTRIDGE CHAFF RR-180 | | | | | | | | | | |
| FY 1996 | TRACOR * | MIPR/C/FP | NAVY/NOC (AFMC/OO-ALC) | SEP 96 | JUL 97 | 549960 | 6.00 | | | |
| FY 1998 | UNKNOWN | MIPR/C/FP | NAVY/NOC (AFMC/OO-ALC) | JUN 98 | MAR 99 | 844680 | 6.73 | YES | NO | |
| FY 1999 | UNKNOWN | MIPR/C/FP OPTION | NAVY/NOC (AFMC/OO-ALC) | FEB 99 | MAR 00 | 795000 | 6.89 | YES | NO | |
| IMPULSE CART BBU-48 | | | | | | | | | | |
| FY 1996@ | QUANTIC # | C/FP | AFMC/OO-ALC | SEP 96 | MAY 97 | 338976 | 7.25 | | | |
| FY 1996@ | CAPCO \$ | C/FP | AFMC/OO-ALC | SEP 96 | DEC 97 | 225984 | 6.58 | | | |
| FY 1998 | UNKNOWN | C/FP | AFMC/OO-ALC | JUL 98 | APR 99 | 844680 | 7.58 | YES | NO | |
| FY 1999 | UNKNOWN | C/FP OPTION | AFMC/OO-ALC | FEB 99 | APR 00 | 798000 | 7.75 | YES | NO | |

D. REMARKS
 * TRACOR IS LOCATED IN LILLINGTON, NC.
 @ FY 96 PROCUREMENT WAS AWARDED IN A 60/40 SPLIT BETWEEN TWO CONTRACTORS.
 # QUANTIC IS LOCATED IN HOLLISTER, CA.
 \$ CAPCO IS LOCATED IN GRAND JUNCTION, CO.

P-1 SHOPP LIST
ITEM NO.
8

PAGE 27

Exhibit P-5A

UNCLASSIFIED

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------------------------|---------------------------------|---|---------------|------------|----------------|-----|-----|------------------|-----|-----|-----|-----|-----|-----|-----|-----|----------------|-----|-----|---------------------|-----|-----|-----|-----|-----|-----|-----|-----|----------------|-----|-----|------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----------------------|----|----|----|----|----|--|--|--|--|-----|--|-----|
| FY98/99 BUDGET PRODUCTION SCHEDULE | | P-1 ITEM NOMENCLATURE: CARTRIDGE CHAFF RR-180 | | | | | | | | | | | | | | | | | | DATE: FEBRUARY 1998 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ITEM/MFG PROCUREMENT YEAR | S E R V I C E | PROC QTY | ACCP PRIOR | BAL DUE | FISCAL YEAR 98 | | | | | | | | | | | | FISCAL YEAR 99 | | | | | | | | | | | | FISCAL YEAR 00 | | | | | | | | | | | | L A T E R | | | | | | | | | | | | |
| | | | | | 97 | 97 | 97 | CALENDAR YEAR 98 | | | | | | | | | | | | CALENDAR YEAR 99 | | | | | | | | | | | | CALENDAR YEAR 00 | | | | | | | | | | | | | | | | | | | | | |
| | | | | 1-Oct | 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 | | | | | | | | | | | | |
| RR-180 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| TRACOR | FY96 | AF | 550 | 180 | 370 | 60 | 60 | 60 | 60 | 60 | 70 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| UNKNOWN | FY98 | AF | 845 | 0 | 845 | | | | | | | | | C | | | | | | | | | | 71 | 71 | 71 | 71 | 71 | 71 | 71 | 71 | 71 | 71 | 71 | 71 | | 64 | | | | | | | | | | | | | | | | |
| UNKNOWN | FY99 | AF | 795 | 0 | 795 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 67 | 67 | 68 | 68 | 68 | 68 | 68 | | | | | | | | 321 | | |
| BBU-48 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| CAPCO | FY95 | AF | 131 | 51 | 80 | 40 | 40 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| QUANTIC | FY96 | AF | 339 | 163 | 176 | 40 | 40 | 40 | 40 | 16 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| CAPCO | FY96 | AF | 226 | 0 | 226 | | | 29 | 40 | 40 | 40 | 40 | 37 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| UNKNOWN | FY98 | AF | 845 | 0 | 845 | | | | | | | | | | C | | | | | | | | | 71 | 71 | 71 | 71 | 71 | 71 | 71 | 71 | 71 | 71 | 71 | 71 | | 64 | | | | | | | | | | | | | | | | |
| UNKNOWN | FY99 | AF | 798 | 0 | 798 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 68 | 68 | 68 | 68 | 68 | 68 | | | | | | | 390 |

| | | | | | | | | | |
|---|------------|-------|---------------|-----------------------|-----------------|-----------|---------------|---|-------------|
| MANUFACTURER'S NAME AND LOCATION | PROD RATES | | REA- CH 0+ | PROCUREMENT LEAD TIME | | | | REMARKS: QUANTITY IN THOUSANDS. MANUFACTURING LEAD TIME (MLT) FOR FY 96 BBU-48 PRODUCTION ADJUSTED TO AVOID PRODUCTION BREAKS AT EACH CONTRACT FACILITY. FY 96 ALT INCREASED FOR RR-180 CHAFF DUE TO PRICE CHALLENGE BY GOVERNMENT. | |
| | MIN | 1-8-5 | | MAX | ADMIN LEAD TIME | | MANUFACTURING | | TOTAL AFTER |
| | | | | | PR 1 OCT | AFT 1 OCT | TIME | | 1 OCT |
| | N/A | N/A | | N/A | RR-180 | | 5 | | 13 |
| TRACOR LILLINGTON, NC QUANTIC HOLLISTER, CA CAPCO GRAND JUNCTION, CO | N/A | N/A | N/A | BBU-48 | | 5 | 14 | 19 | |

| | | | | | | | | | |
|-------------------|--|--|--|--------|--|----------|--|-------------------|--|
| P-1 SHOPPING LIST | | | | PAGE | | PAGE NO. | | PAGE 1 OF 2 PAGES | |
| ITEM NO. | | | | NO. 28 | | | | EXHIBIT P-21 | |
| | | | | 8 | | | | | |

UNCLASSIFIED

| FY98/99 BUDGET PRODUCTION SCHEDULE | | | P-1 ITEM NOMENCLATURE: CARTRIDGE CHAFF RR-180 | | | | | | | | | | | DATE: FEBRUARY 1998 | | | | | | | | | | | | L A T E R | | | | | | | | | | | | | | | |
|------------------------------------|------------------|-------------|---|------------|-----------------------|--------|-----|-----|-----|-----|-------------|-----------------|-----|---------------------|---------------|-----|------------------|---|-----|-----|-----|-------------------|-----|-----|-----|-----------------------|-----|-----|------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| ITEM/MFG PROCUREMENT YEAR | S E R V | PROC QTY | ACCP T PRIOR | BAL DUE | FISCAL YEAR 01 | | | | | | | | | | | | FISCAL YEAR 02 | | | | | | | | | | | | FISCAL YEAR 03 | | | | | | | | | | | | |
| | | | | | CALENDAR YEAR 01 | | | | | | | | | | | | CALENDAR YEAR 02 | | | | | | | | | | | | CALENDAR YEAR 03 | | | | | | | | | | | | |
| | | | | | 1-Oct | 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 |
| RR-180 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| TRACOR FY96 | AF | 550 | 550 | 0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 0 | |
| UNKNOWN FY98 | AF | 845 | 845 | 0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 0 | | |
| UNKNOWN FY99 | AF | 795 | 474 | 321 | 68 | 68 | 68 | 68 | 49 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 0 | | |
| BBU-48 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| CAPCO FY 95 | AF | 131 | 131 | 0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 0 | | |
| QUANTIC FY96 | AF | 339 | 339 | 0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 0 | | |
| CAPCO FY 96 | AF | 226 | 226 | 0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 0 | | |
| UNKNOWN FY98 | AF | 845 | 845 | 0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 0 | | |
| UNKNOWN FY99 | AF | 798 | 408 | 390 | 68 | 68 | 68 | 68 | 50 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 0 | | |
| | | | | | 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 | |
| MANUFACTURER'S NAME AND LOCATION | | PROD RATES | | REA- | PROCUREMENT LEAD TIME | | | | | | | | | | | | | REMARKS: QUANTITY IN THOUSANDS. MANUFACTURING LEAD TIME (MLT) FOR FY 96 BBU-48 PRODUCTION ADJUSTED TO AVOID PRODUCTION BREAKS AT EACH CONTRACT FACILITY. FY 96 ALT INCREASED FOR RR-180 CHAFF DUE TO PRICE CHALLENGE BY GOVERNMENT. | | | | | | | | | | | | | | | | | | | | | | | |
| | | MIN | 1-8-5 | MAX | CH 0+ | | | | | | | ADMIN LEAD TIME | | | MANUFACTURING | | | TOTAL AFTER | | | | | | | | | | | | | | | | | | | | | | | |
| | | N/A | N/A | N/A | | | | | | | | PR 1 OCT | | AFT 1 OCT | TIME | | 1 OCT | | | | | | | | | | | | | | | | | | | | | | | | |
| TRACOR LILLINGTON, NC | | N/A | N/A | N/A | | RR-180 | | | | | | | | 5 | 13 | | 18 | | | | | | | | | | | | | | | | | | | | | | | | |
| QUANTIC HOLLISTER, CA | | N/A | N/A | N/A | | BBU-48 | | | | | | | | 5 | 14 | | 19 | | | | | | | | | | | | | | | | | | | | | | | | |
| CAPCO GRAND JUNCTION, CO | | N/A | N/A | N/A | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| P-1 SHOPPING LIST | | | | | | | | | | | PAGE NO. 29 | | | | | | | | | | | PAGE 2 OF 2 PAGES | | | | | | | | | | | | | | | | | | | |
| ITEM NO. | | | | | | | | | | | | | | | | | | | | | | EXHIBIT P-21 | | | | | | | | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

UNCLASSIFIED

| BUDGET ITEM JUSTIFICATION (EXHIBIT P-40) | | | | | | | DATE FEBRUARY 1998 | |
|--|---------|---------|---------------------------------|-------------|---|---------|------------------------------|---------|
| APPROPRIATION/BUDGET ACTIVITY PAAF/MUNITIONS AND RELATED EQUIPMENT | | | | | P-1 ITEM NOMENCLATURE CARTRIDGE CHAFF RR-188 | | | |
| | FY 1996 | FY 1997 | FY 1998 | FY 1999 | FY 2000 | FY 2001 | FY 2002 | FY 2003 |
| QUANTITY (In Thousands) | | 507 | 0 | 876 | 1797 | 1805 | 1820 | 2227 |
| COST (In Millions) | | \$1.384 | \$0 | \$2.548 | \$4.361 | \$4.472 | \$4.597 | \$5.734 |
| REMARKS | | | | | | | | |
| <p>1. THE RR-188 CHAFF CARTRIDGE CONTAINS A PAYLOAD OF CHAFF WHICH CAN BE DISPENSED DURING FLIGHT FOR TRAINING REQUIREMENTS. THE FUNCTIONAL CHARACTERISTICS ARE SIMILAR TO THE RR-170 AND RR-180 CHAFF COUNTERMEASURES CARTRIDGES. LIKE THE COMBAT CHAFF CARTRIDGES, THE RR-188 CARTRIDGE FITS INTO A MULTIPLE CARTRIDGE MAGAZINE (MJU-11 OR MJU-15), WHICH CAN BE INSTALLED IN ANY OF THE ALE-40 SERIES FLARE/CHAFF DISPENSING SYSTEMS ON SEVERAL TYPES OF AIRCRAFT. HOWEVER, USE OF RR-170 AND RR-180 CHAFF IS SEVERELY LIMITED BY FAA REGULATIONS DUE TO INTERFERENCE WITH AIR TRAFFIC CONTROL RADAR. BECAUSE THE RR-188 PAYLOAD DOES NOT INTERFERE WITH AIR TRAFFIC CONTROL RADAR, IT PROVIDES THE ALTERNATIVE NECESSARY FOR REALISTIC COMBAT AIRCREW TRAINING.</p> <p>2. THE RR-188 CHAFF CARTRIDGE CONSISTS OF A SQUARE PLASTIC TUBE APPROXIMATELY .97 INCHES IN WIDTH, .97 INCHES IN HEIGHT, AND 8.145 INCHES LONG WITH A RECEPTACLE FOR AN IMPULSE CARTRIDGE, (BBU-35/B), PLASTIC PISTON, CHAFF DIPOLE PAYLOAD, AND A PLASTIC END CAP. CHAFF CARTRIDGES CONTAIN NO EXPLOSIVE OR INCENDIARY COMPONENTS WHEN THE IMPULSE CARTRIDGE IS NOT INSTALLED.</p> | | | | | | | | |
| | | | P-1 SHOPP LIST ITEM NO. 9 | PAGE NO. 30 | | | | |

UNCLASSIFIED

UNCLASSIFIED

BUDGET PROCUREMENT HISTORY PLANNING (P-5A)

A. DATE
FEBRUARY 1998

| B. APPROPRIATION/BUDGET ACTIVITY PAAF/MUNITIONS AND RELATED EQUIPMENT | | | | C. P-1 ITEM NOMENCLATURE CARTRIDGE CHAFF RR-188 | | | | | | |
|---|-------------------------|------------------------------|----------------------------|---|------------------------------|----------|--------------|-----------------------|----------------------|--------------------------|
| LINE ITEM/ FISCAL YEAR | CONTRACTOR/ LOCATION | CONTRACT METHOD & TYPE | CONTRACTED BY | AWARD DATE | DATE OF FIRST DELIVERY | QUANTITY | UNIT COST | SPECS AVAIL NOW | SPEC REV REQ'D | IF YES, WHEN AVAIL |
| CARTRIDGE CHAFF RR-188 | | | | | | | | | | |
| FY 1997 | TRACOR@ | C/FP | NAVY/SPCC (AFMC/OO-ALC) | SEP 97 | JUL 98 | 506760 | 2.73 | | | |
| FY 1999 | UNKNOWN | C/FP | NAVY/SPCC (AFMC/OO-ALC) | MAR 99 | JAN 00 | 875600 | 2.91 | YES | NO | |

D. REMARKS
@ TRACOR IS LOCATED IN LILLINGTON, NC.

UNCLASSIFIED

| FY98/99BUDGET PRODUCTION SCHEDULE | | | | P-1 ITEM NOMENCLATURE: CARTRIDGE CHAFF RR-188 | | | | | | | | | | | | | | | | | | | | | | | | DATE: FEBRUARY 1998 | | | | | | | | | | | | | | | | | | | |
|-----------------------------------|---------------------------------|-------------|----------------|---|-----------------------|-----------------|----|-----------|-----|-----|-----|---------------|-----|-----|-----|-----|------------------|--------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|---------------------|---|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|
| ITEM/MFG PROCUREMENT YEAR | S E R V I C E | PROC QTY | ACCPT PRIOR | BAL DUE | FISCAL YEAR 98 | | | | | | | | | | | | FISCAL YEAR 99 | | | | | | | | | | | | FISCAL YEAR 00 | | | | | | | | | | | | | | | | | | |
| | | | | | CALENDAR YEAR 98 | | | | | | | | | | | | CALENDAR YEAR 99 | | | | | | | | | | | | CALENDAR YEAR 00 | | | | | | | | | | | | | | | | | | |
| | | | | | 97 | 97 | 97 | 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 | | | | |
| TRACOR | FY 97 | AF | 507 | 0 | 507 | | | | | | | | | | 136 | 136 | 136 | 99 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| UNKNOWN | FY 99 | AF | 876 | 0 | 876 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| TOTAL | | | 1383 | 0 | 1383 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 136 | 136 | 136 | 99 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 76 |
| MANUFACTURER'S NAME AND LOCATION | | PROD RATES | | REA- | PROCUREMENT LEAD TIME | | | | | | | | | | | | | | | | | | | | | | | | REMARKS: QUANTITY IN THOUSANDS. DELIVERIES BASED ON CONTRACT DELIVERY SCHEDULE. | | | | | | | | | | | | | | | | | | |
| TRACOR LILLINGTON, NC | | MIN | 1-8-5 | MAX | CH 0+ | ADMIN LEAD TIME | | | | | | MANUFACTURING | | | | | | TOTAL AFTER | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | 80 | 136 | UNK | | PR 1 OCT | | AFT 1 OCT | | | | TIME | | | | | | 1 OCT | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | INITIAL | | FY 97 | | | | | | | | 12 | | | | | | 10 | | | | | | 22 | | | | | | | | | | | | | | | | | | | | | | | |
| | | REORDER | | FY 99 | | | | | | | | 6 | | | | | | 10 | | | | | | 16 | | | | | | | | | | | | | | | | | | | | | | | |
| P-1 SHOPPING LIST | | | | | | PAGE | | | | | | PAGE NO. | | | | | | PAGE 1 OF 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ITEM NO. | | | | | | NO. | | | | | | 32 | | | | | | EXHIBIT P-21 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 9 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

UNCLASSIFIED

| BUDGET ITEM JUSTIFICATION (EXHIBIT P-40) | | | | | | | DATE FEBRUARY 1998 | |
|---|---------|---------|----------------------------------|-------------|--|---------|------------------------------|---------|
| APPROPRIATION/BUDGET ACTIVITY PAAF/MUNITIONS AND RELATED EQUIPMENT | | | | | P-1 ITEM NOMENCLATURE SIGNAL MK-4 MOD 3 | | | |
| | FY 1996 | FY 1997 | FY 1998 | FY 1999 | FY 2000 | FY 2001 | FY 2002 | FY 2003 |
| QUANTITY <small>(In Thousands)</small> | | 0 | 596 | 264 | 561 | 563 | 568 | 695 |
| COST <small>(In Millions)</small> | | \$0 | \$1.122 | \$.760 | \$0.961 | \$.984 | \$1.011 | \$1.262 |
| REMARKS 1. THE MK 4 MOD 3 SIGNAL CARTRIDGE IS USED WITH THE BDU-33, MK-106, AND BDU-48 PRACTICE BOMBS FOR OBSERVATION AND SCORING PURPOSES. THE SIGNAL CARTRIDGE HAS AN ALUMINUM CASE AND IS SIMILAR TO A 10 GAUGE SHOTGUN SHELL. IT CONTAINS AN EXPLOSIVE CHARGE OF SMOKELESS POWDER AND A COMMERCIAL SHOTGUN SHELL PRIMER. A PYROTECHNIC MARKER LOAD OF STABILIZED RED PHOSPHOROUS PROVIDES THE VISIBLE INDICATION FOR BOMB SCORING. 2. THIS ITEM IS PROCURED BY THE SINGLE MANAGER FOR CONVENTIONAL AMMUNITION. FY 97/98 COST IS BASED ON CONVENTIONAL AMMUNITION WORKING CAPITAL FUND (CAWCF) STANDARD PRICING. FY 99 COST IS BASED UPON ESTIMATED CONTRACT/SUPPORT COSTS. 3. FY 99 QUANTITIES DIFFER FROM P-1 ENTRIES DUE TO UPDATED COST ESTIMATES. | | | | | | | | |
| | | | P-1 SHOPP LIST ITEM NO. 10 | PAGE NO. 33 | | | | |

UNCLASSIFIED

UNCLASSIFIED

AMMUNITION COST ANALYSIS (DOLLARS IN THOUSANDS)

| APPROPRIATION AND P-1 LINE ITEM | | | | | | | | | | | DATE: | | |
|---|---------------|-------------|-----------|--------------|---------------|-------------|---------|---------------|-----------|-------|---------------|-----------|-------|
| PAAF SIGNAL MK-4 MOD 3 | | | | | | | | | | | FEBRUARY 1998 | | |
| ELEMENT OF COST | IDENT CODE | FY97 QTY: 0 | | | FY98 QTY: 596 | | | FY99 QTY: 264 | | | QTY: | | |
| | | QTY | UNIT COST | TOTAL | QTY | UNIT COST | TOTAL | QTY | UNIT COST | TOTAL | QTY | UNIT COST | TOTAL |
| <u>HARDWARE</u> | | | | | | | | | | | | | |
| MK4 MOD 3 | A | | | | 596000 | \$1.59 | \$948 | 264057 | \$2.32 | \$611 | | | |
| SUBTOTAL | | | | | | | \$948 | | | \$611 | | | |
| <u>PRODUCTION SUPPORT</u> | | | | | | | | | | | | | |
| PRODUCTION ENGINEERING | | | | | | | | | | | | | |
| QUALITY ASSURANCE | | | | | | | \$2 | | | \$12 | | | |
| ACCEPTANCE TESTING | | | | | | | \$11 | | | | | | |
| INTERIM TRANSPORTATION | | | | | | | \$7 | | | | | | |
| INDUSTRIAL STOCK SUPPORT | | | | | | | \$34 | | | \$12 | | | |
| CAWCF GAIN/LOSS SURCHARGE | | | | | | | | | | | | | |
| SUBTOTAL | | | | | | | \$54 | | | \$24 | | | |
| TOTAL | | | | | 596000 | \$1.68 | \$1,002 | 264057 | \$2.40 | \$635 | | | |
| NAVY ENGINEERING SUPPORT | | | | | | | \$120 | | | \$125 | | | |
| TOTAL P-1 LINE ITEM | | | | | | | \$1,122 | | | \$760 | | | |
| | | | | P-1 ITEM NO. | | PAGE NO. 34 | | EXHIBIT P-5 | | | | | |
| | | | | 10 | | | | PAGE 1 OF 1 | | | | | |

UNCLASSIFIED

UNCLASSIFIED

BUDGET PROCUREMENT HISTORY PLANNING (P-5A)

A. DATE
FEBRUARY 1998

| B. APPROPRIATION/BUDGET ACTIVITY PAAF/MUNITIONS AND RELATED EQUIPMENT | | | | C. P-1 ITEM NOMENCLATURE SIGNAL, MK 4 MOD 3 | | | | | | |
|---|-------------------------|------------------------------|---------------------------|---|------------------------------|----------|--------------|-----------------------|----------------------|--------------------------|
| LINE ITEM/ FISCAL YEAR | CONTRACTOR/ LOCATION | CONTRACT METHOD & TYPE | CONTRACTED BY | AWARD DATE | DATE OF FIRST DELIVERY | QUANTITY | UNIT COST | SPECS AVAIL NOW | SPEC REV REQ'D | IF YES, WHEN AVAIL |
| SIGNAL, MK 4 MOD 3 | | | | | | | | | | |
| FY 1995 | KILGORE@ | C/FP | ARMY/IOC (AFMC/OO-ALC) | APR 95 | OCT 95 | 701500 | 1.67# | | | |
| FY 1998 | UNKNOWN | C/FP | ARMY/IOC (AFMC/OO-ALC) | MAR 98 | MAR 99 | 596000 | 1.68# | YES | NO | |
| FY 1999 | UNKNOWN | C/FP | ARMY/IOC (AFMC/OO-ALC) | MAR 99 | MAR 00 | 264057 | 2.40# | YES | NO | |

D. REMARKS

@ KILGORE IS LOCATED IN TOONE, TN.
UNIT PRICE DOES NOT INCLUDE ENGINEERING SUPPORT COST PROVIDED TO THE US NAVY FOR TECHNICAL DATA PACKAGE MAINTENANCE AND PRODUCTION ENGINEERING SUPPORT.

P-1 SHOPP LIST
ITEM NO.
10

PAGE 35

Exhibit P-5A

UNCLASSIFIED

| FY98/99 BUDGET PRODUCTION SCHEDULE | | | | P-1 ITEM NOMENCLATURE: | | | | | | | | | | | | | | | | | | | | | SIGNAL, MK 4 MOD 3 | | | DATE: FEBRUARY 1998 | | | | | | L A T E R | | | | | | | | | | | | | | | | | | | | | | |
|------------------------------------|------------------|-------------|------------|------------------------|-----------------|-----------------------|--------------------|-----|-------------------|------------------|-----|-----|-----|-----|-----|------------------|----------------|-----|--------------|-----|-----|------------------|----------------|-----|--------------------|-----|-----------------------------------|---------------------|-----|-----|-----|-----|-----|-----------------------|-----|-----|-----|-----|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ITEM/MFG PROCUREMENT YEAR | S E R V | PROC QTY | ACCP T | BAL | FISCAL YEAR 98 | | | | | | | | | | | | FISCAL YEAR 99 | | | | | | FISCAL YEAR 00 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | PRIOR | DUE | 97 | 97 | 97 | CALENDAR YEAR 98 | | | | | | CALENDAR YEAR 99 | | | | | | CALENDAR YEAR 00 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1-Oct | 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 | | | | | | | | | | | | | | | | | | |
| UNKNOWN | FY98 | AF | 596 | 0 | 596 | | | | | | | | | | | | | | | C | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 0 | |
| UNKNOWN | FY99 | AF | 264 | 0 | 264 | | | | | | | | | | | | | | | C | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 0 |
| TOTAL | | | 860 | 0 | 860 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 100 | 100 | 100 | 100 | 100 | 96 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 100 | 100 | 64 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| MANUFACTURER'S NAME AND LOCATION | | | PROD RATES | | REA- | PROCUREMENT LEAD TIME | | | | | | | | | | | | | | | | | | | | | REMARKS: QUANTITIES IN THOUSANDS. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| UNKNOWN | MIN | 1-8-5 | MAX | CH 0+ | ADMIN LEAD TIME | | MANUFACTURING TIME | | TOTAL AFTER 1 OCT | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | UNK | UNK | UNK | | PR 1 OCT | AFT 1 OCT | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | INITIAL | 6 | 6 | 12 | | 18 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | REORDER | 6 | 6 | 12 | | 18 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| P-1 SHOPPING LIST | | | | | | | | | PAGE NO. | PAGE NO. | | | | | | | | | PAGE 1 OF 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ITEM NO. 10 | | | | | | | | | NO. 36 | | | | | | | | | | EXHIBIT P-21 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

UNCLASSIFIED

UNCLASSIFIED

| BUDGET ITEM JUSTIFICATION (EXHIBIT P-40) | | | | | | | DATE FEBRUARY 1998 | |
|--|---------|---------|----------------------------------|-------------|---|---------|------------------------------|---------|
| APPROPRIATION/BUDGET ACTIVITY PAAF/MUNITIONS AND RELATED EQUIPMENT | | | | | P-1 ITEM NOMENCLATURE ITEMS LESS THAN \$2,000,000 (CARTRIDGES) | | | |
| | FY 1996 | FY 1997 | FY 1998 | FY 1999 | FY 2000 | FY 2001 | FY 2002 | FY 2003 |
| QUANTITY | | | | | | | | |
| COST (In Millions) | | \$4.014 | \$4.097 | \$5.447 | \$6.753 | \$6.865 | \$7.001 | \$7.022 |
| REMARKS 1. THIS CATEGORY CONSISTS OF MISCELLANEOUS CARTRIDGES USED FOR TRAINING AND WAR RESERVE MATERIEL. 2. THESE ITEMS ARE CODE A ITEMS (APPROVED FOR SERVICE USE). 3. SPECIFIC FY 98 AND FY 99 ITEMS ARE LISTED ON THE NEXT PAGE. | | | | | | | | |
| | | | P-1 SHOPP LIST ITEM NO. 11 | PAGE NO. 37 | | | | |

UNCLASSIFIED

UNCLASSIFIED

| BUDGET ITEM JUSTIFICATION FOR AGGREGATED ITEMS (EXHIBIT P-40A) | | | | | | | DATE: FEBRUARY 1998 | | |
|---|------------|-----------|--------------------|-------------|--|-------------|---------------------|-----|------|
| APPROPRIATION/BUDGET ACTIVITY PAAF/MUNITIONS AND RELATED EQUIPMENT | | | | | P-1 NOMENCLATURE: ITEMS LESS THAN \$2,000,000 (CARTS) | | | | |
| PROCUREMENT ITEMS | IDENT CODE | FY 98 | | FY 99 | | QTY | COST | QTY | COST |
| | | QTY | COST | QTY | COST | | | | |
| .22 CAL BALL CART | A | 200,000 | \$ 26 | 300,000 | \$ 27 | | | | |
| .50 CAL BALL LINK | A | 97,500 | \$ 186 | 130,000 | \$ 184 | | | | |
| .50 CAL BALL TRACER | A | | | 500,000 | \$ 799 | | | | |
| .45 CAL BALL | A | 90,000 | \$ 18 | 150,000 | \$ 30 | | | | |
| 9MM BALL | A | 7,546,000 | \$ 1,132 | 9,800,000 | \$ 1,435 | | | | |
| BBU-35 IMPULSE CART | A | 1,491,120 | \$ 1,178 | 1,942,080 | \$ 1,532 | | | | |
| 30MM STRAP | A | | | 112,000 | \$ 4 | | | | |
| .45 CAL MATCH AMMO | A | N/A | \$ 139 | N/A | \$ 140 | | | | |
| BBU-46 IMP CART | A | | | 2,016 | \$ 144 | | | | |
| ARD-446 IMP CART | A | | | 300,000 | \$ 1,044 | | | | |
| MK-2 MOD-0 IMP CART | A | | | 940 | \$ 53 | | | | |
| .45 CAL WAD | A | | | 275,000 | \$ 55 | | | | |
| BBU-36 IMPULSE CARTS | A | 695,520 | \$ 995 | | | | | | |
| .50 CAL RAUFUS | A | 51,360 | \$ 423 | | | | | | |
| TOTAL P-1 LINE | | | \$ 4,097 | | \$ 5,447 | | | | |
| | | | P-1 ITEM NO. 11 | PAGE NO: 38 | | PAGE 1 OF 1 | | | |

UNCLASSIFIED

UNCLASSIFIED

| BUDGET ITEM JUSTIFICATION (EXHIBIT P-40) | | | | | | | DATE FEBRUARY 1998 | |
|---|--|---------|----------------------------------|---|----------|----------|------------------------------|----------|
| APPROPRIATION/BUDGET ACTIVITY PAAF/MUNITIONS AND RELATED EQUIPMENT | | | | P-1 ITEM NOMENCLATURE MK-82 INERT/BDU-50 | | | | |
| | | FY 1997 | FY 1998 | FY 1999 | FY 2000 | FY 2001 | FY 2002 | FY 2003 |
| QUANTITY | | 12750 | 22612 | 29808 | 20452 | 20535 | 20718 | 25345 |
| COST (In Millions) | | \$6.276 | \$19.018 | \$22.490 | \$14.890 | \$15.255 | \$15.686 | \$19.574 |
| REMARKS | | | | | | | | |
| <p>1. THIS ITEM IS THE MK-82, 500 POUND, GENERAL PURPOSE BOMB, LESS THE EXPLOSIVE FILL (192 POUNDS) WHICH IS USED FOR TRAINING. IT IS FILLED WITH A COMBINATION OF CONCRETE, VERMICULITE AND SAND TO SIMULATE THE DROP TRAJECTORY OF AN EXPLOSIVES LOADED BOMB.</p> <p>2. THIS ITEM IS PROCURED BY THE SINGLE MANAGER FOR CONVENTIONAL AMMUNITION. FY97/98 COSTS ARE BASED ON CONVENTIONAL AMMUNITION WORKING CAPITAL FUND (CAWCF) STANDARD PRICING. FY 99 COSTS ARE BASED ON ESTIMATED CONTRACT/SUPPORT COSTS.</p> <p>3. FY 99 QUANTITIES DIFFER FROM P-1 ENTRIES DUE TO UPDATED COST ESTIMATES.</p> | | | | | | | | |
| | | | P-1 SHOPP LIST ITEM NO. 12 | PAGE NO. 39 | | | | |

UNCLASSIFIED

UNCLASSIFIED

AMMUNITION COST ANALYSIS (DOLLARS IN THOUSANDS)

| APPROPRIATION AND P-1 LINE ITEM | | | | | | | | | | | DATE: | | | | | |
|---------------------------------|------------|-------|-----------|--------------|-------|-------------|----------|-------------|-----------|----------|-------------------|-----------|-------|---------------|--|--|
| PAAF | | | | | | | | | | | MK82 INERT/BDU-50 | | | FEBRUARY 1998 | | |
| ELEMENT OF COST | IDENT CODE | FY97 | | | FY98 | | | FY99 | | | 29808 | | | | | |
| | | QTY | UNIT COST | TOTAL | QTY | UNIT COST | TOTAL | QTY | UNIT COST | TOTAL | QTY | UNIT COST | TOTAL | | | |
| HARDWARE | | | | | | | | | | | | | | | | |
| LOAD ASSEMBLE AND PACK (LAP) | A | 12750 | \$49.20 | \$627 | 22612 | \$54.46 | \$1,231 | 29808 | \$57.46 | \$1,713 | | | | | | |
| BOMB BODY BDU-50 | | 13133 | \$347.39 | \$4,562 | 23302 | \$575.87 | \$13,419 | 30707 | \$610.18 | \$18,737 | | | | | | |
| LUG SUSPENSION | | 0 | \$7.18 | \$0 | 47509 | \$15.34 | \$729 | 62608 | \$15.43 | \$966 | | | | | | |
| PALLET INSPECTION | | | | | | | | 5067 | \$32.40 | \$164 | | | | | | |
| SUBTOTAL | | | | \$5,189 | | | \$15,379 | | | \$21,580 | | | | | | |
| PRODUCTION SUPPORT | | | | | | | | | | | | | | | | |
| QUALITY ASSURANCE | | | | \$8 | | | \$41 | | | \$5 | | | | | | |
| ACCEPTANCE TESTING | | | | \$63 | | | \$186 | | | \$0 | | | | | | |
| INTERIM TRANSPORTATION | | | | \$55 | | | \$117 | | | \$309 | | | | | | |
| INDUSTRIAL STOCK SUPPORT | | | | \$231 | | | \$575 | | | \$454 | | | | | | |
| CAWCF GAIN/LOSS SURCHARGE | | | | \$610 | | | | | | | | | | | | |
| SUBTOTAL | | | | \$967 | | | \$919 | | | \$768 | | | | | | |
| TOTAL | | 12750 | \$482.77 | \$6,156 | 22612 | \$720.41 | \$16,298 | 29808 | \$749.62 | \$22,348 | | | | | | |
| NAVY ENGINEERING SUPPORT | | | | \$120 | | | \$120 | | | \$142 | | | | | | |
| PRODUCTION ENGINEERING | | | | | | | \$2,600 | | | | | | | | | |
| TOTAL P-1 LINE ITEM | | 12750 | | \$6,276 | 22612 | | \$19,018 | 29808 | | \$22,490 | | | | | | |
| | | | | P-1 ITEM NO. | | PAGE NO. 40 | | EXHIBIT P-5 | | | | | | | | |
| | | | | 12 | | | | PAGE 1 OF 1 | | | | | | | | |

UNCLASSIFIED

BUDGET PROCUREMENT HISTORY PLANNING (P-5A)

A. DATE
FEBRUARY 1998

| B. APPROPRIATION/BUDGET ACTIVITY PAAF/MUNITIONS AND RELATED EQUIPMENT | | | | C. P-1 ITEM NOMENCLATURE MK-82 INERT/BDU-50 | | | | | | |
|---|-------------------------|------------------------------|---------------------------|---|------------------------------|----------|--------------|-----------------------|----------------------|--------------------------|
| LINE ITEM/ FISCAL YEAR | CONTRACTOR/ LOCATION | CONTRACT METHOD & TYPE | CONTRACTED BY | AWARD DATE | DATE OF FIRST DELIVERY | QUANTITY | UNIT COST | SPECS AVAIL NOW | SPEC REV REQ'D | IF YES, WHEN AVAIL |
| MK-82 INERT/BDU-50 | | | | | | | | | | |
| FY 1998 | IMCO/MCAAP | SS/FP | ARMY/IOC (AFMC/OO-ALC) | JAN 98^ | SEP 99 | 22612 | 720.41@ | YES | NO | |
| FY 1999 | IMCO/MCAAP | SS/FP | ARMY/IOC (AFMC/OO-ALC) | JAN 99^ | SEP 00 | 29808 | 749.62@ | YES | NO | |

D. REMARKS

*INTERCONTINENTAL MANUFACTURING CO (IMCO) IS LOCATED IN GARLAND, TX.
*MCALESTER ARMY AMMUNITION PLANT (MCAAP) IS LOCATED IN MCALESTER, OK.

@ UNIT COSTS DO NOT INCLUDE FUNDS PROVIDED TO US NAVY FOR ENGINEERING. ENGINEERING SUPPORT COSTS ENSURE TECHNICAL DATA PACKAGE MAINTENANCE AND PRODUCTION ENGINEERING SUPPORT.

^AWARD DATES ARE FOR LOAD, ASSEMBLE, AND PACK (LAP) (MCALESTER AAP).

P-1 SHOPP LIST
ITEM NO.
12

PAGE 41

Exhibit P-5A

UNCLASSIFIED

| FY98/99 BUDGET PRODUCTION SCHEDULE | | | | P-1 ITEM NOMENCLATURE: MK-82 INERT/BDU-50 | | | | | | | | | | | | DATE: FEBRUARY 1998 | | L A T E R | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------------------------|----------------------------|-------------|----------------|---|------------------|------|------|-----------------------|-----|-------|-----|-----|-----|-----|-------------------|---------------------|------------------|-----------------------|-----|---|-----|-----|------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|-----|-----|-----|-----|-----|-----|------|
| ITEM/MFG PROCUREMENT YEAR | S E R V E R | PROC QTY | ACCPT PRIOR | BAL DUE | FISCAL YEAR 98 | | | | | | | | | | | | FISCAL YEAR 99 | | | | | | FISCAL YEAR 00 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | CALENDAR YEAR 98 | | | | | | | | | | | | CALENDAR YEAR 99 | | | | | | CALENDAR YEAR 00 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | 97 | 97 | 97 | 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 | | | | | | | | | |
| IMCO/MCAAP | FY96 | AF | 12.9 | 0 | 12.9 | | | | | | | | | | | 10 | 2.9 | | | | | | | | | | | | | | | | | | | | | | | | | 0 | | | | | | | | |
| IMCO/MCAAP | FY97 | AF | 12.8 | 0 | 12.8 | | | | | | | | | | | | | 0.1 | 2.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 2.5 | 0.2 | | | | | | | | | | | | | | | | | | | | 0 |
| IMCO/MCAAP | FY98 | AF | 22.6 | 0 | 22.6 | | | | C | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 0.0 | | | | | | | |
| IMCO/MCAAP | FY99 | AF | 29.8 | 0 | 29.8 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 2.0 | 27.8 | | | | | | | |
| TOTAL | | | | | 78.1 | 0 | 78.1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 10 | 2.9 | 0 | 0.1 | 2.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 2.5 | 0.2 | 0 | 0 | 0 | 0 | 0 | 2.0 | 2.0 | 2.0 | 1.0 | 1.0 | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 | 2.6 | 2.0 | 27.8 |
| MANUFACTURER'S NAME AND LOCATION | | | | PROD RATES | | REA- | | PROCUREMENT LEAD TIME | | | | | | | | | | | | REMARKS: QUANTITIES IN THOUSANDS. PACING COMPONENT IS BOMB BODY, MANUFACTURED BY INTERCONTINENTAL MANUFACTURING COMPANY (IMCO), WHICH IS THE SOLE PRODUCER OF MK-SERIES BOMB BODIES. ADMINISTRATIVE LEAD TIME IS BASED ON CONTRACT AWARD OF LOAD, ASSEMBLE AND PACK (LAP) CONTRACT TO MCAAP. DELIVERY SCHEDULE REFLECTS MCAAP LAP COMPLETION DATES. MCAAP IS ABLE TO RUN AT A RATE LOWER THAN MSR BY SCHEDULING ITS DIRECT LABOR MANPOWER THROUGHOUT THE ENTIRE FACILITY. THIS IS DONE SPECIFICALLY TO MAINTAIN A WARM INDUSTRIAL BASE FOR BOMB BODIES. BOTH AF BDU-50 AND NAVY BDU-45 PROCUREMENTS CONTRIBUTE TO SUPPORTING THE MSR. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| MCAAP, OK (LAP RATE) | | 5.0 | 10.0 | 20.0 | INITIAL | | | 6 | 4 | 20 | 24 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| IMCO GARLAND, TX (BOMB BODY) | | 1.0 | 5.0 | 15.0 | REORDER | | | 6 | 4 | 20 | 24 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| P-1 SHOPPING LIST | | | | | | | | | | PAGE | | | | | PAGE 1 OF 2 PAGES | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ITEM NO. 12 | | | | | | | | | | NO 42 | | | | | EXHIBIT P-21 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

UNCLASSIFIED

| FY98/99 BUDGET PRODUCTION SCHEDULE | | | P-1 ITEM NOMENCLATURE: MK-82 INERT/BDU-50 | | | | | | | | | | DATE: FEBRUARY 1998 | | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------------------------|------|----------|---|------------|-------------------|------|-----|-----------------------|-----|-----|----------------|-------|---------------------|-------------------|-----|-----|------------------|-----|-----|---|-----|-----|-------|------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| ITEM/MFG PROCUREMENT YEAR | SERV | PROC QTY | ACCPY | BAL DUE | FISCAL YEAR 01 | | | | | | FISCAL YEAR 02 | | | | | | FISCAL YEAR 03 | | | | | | LATER | | | | | | | | | | | | | | | |
| | | | | | CALENDAR YEAR 001 | | | | | | | | | | | | CALENDAR YEAR 02 | | | | | | | CALENDAR YEAR 03 | | | | | | | | | | | | | | |
| | | | | | 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 |
| IMCO/MCAAP FY96 | AF | 12.9 | 12.9 | 0.0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 0 |
| IMCO/MCAAP FY97 | AF | 12.8 | 12.8 | 0.0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 0 |
| IMCO/MCAAP FY98 | AF | 22.6 | 22.6 | 0.0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 0 |
| IMCO/MCAAP FY99 | AF | 29.8 | 2 | 27.8 | 2.2 | 2.2 | 2.2 | 2.2 | 3.0 | 3.0 | 3.0 | 3.0 | 3.0 | 4.0 | | | | | | | | | | | | | | | | | | | | | | | 0 | |
| TOTAL | | 78.1 | 50.3 | 27.8 | 2.2 | 2.2 | 2.2 | 2.2 | 3.0 | 3.0 | 3.0 | 3.0 | 3.0 | 4.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0 | | |
| MANUFACTURER'S NAME AND LOCATION | | | | PROD RATES | | REA- | | PROCUREMENT LEAD TIME | | | | | | | | | | | | REMARKS: QUANTITIES IN THOUSANDS. PACING COMPONENT IS BOMB BODY, MANUFACTURED BY INTERCONTINENTAL MANUFACTURING COMPANY (IMCO), WHICH IS THE SOLE PRODUCER OF MK-SERIES BOMB BODIES. ADMINISTRATIVE LEAD TIME IS BASED ON CONTRACT AWARD OF LOAD, ASSEMBLE AND PACK (LAP) CONTRACT TO MCAAP. DELIVERY SCHEDULE REFLECTS MCAAP LAP COMPLETION DATES. MCAAP IS ABLE TO RUN AT A RATE LOWER THAN MSR BY SCHEDULING ITS DIRECT LABOR MANPOWER THROUGHOUT THE ENTIRE FACILITY. THIS IS DONE SPECIFICALLY TO MAINTAIN A WARM INDUSTRIAL BASE FOR BOMB BODIES. BOTH AF BDU-50 AND NAVY BDU-45 PROCUREMENTS CONTRIBUTE TO SUPPORTING THE MSR. | | | | | | | | | | | | | | | | | | |
| MCAAP, OK (LAP RATE) | | 5.0 | 10.0 | 20.0 | INITIAL | | | | 6 | 4 | 20 | | 24 | | | | | | | | | | | | | | | | | | | | | | | | | |
| IMCO GARLAND, TX (BOMB BODY) | | 1.0 | 5.0 | 15.0 | REORDER | | | | 6 | 4 | 20 | | 24 | | | | | | | | | | | | | | | | | | | | | | | | | |
| P-1 SHOPPING LIST | | | | | | | | | | | | PAGE | | PAGE 2 OF 2 PAGES | | | | | | | | | | | | | | | | | | | | | | | | |
| ITEM NO. 12 | | | | | | | | | | | | NO.43 | | EXHIBIT P-21 | | | | | | | | | | | | | | | | | | | | | | | | |

UNCLASSIFIED

UNCLASSIFIED

| BUDGET ITEM JUSTIFICATION (EXHIBIT P-40) | | | | | | | DATE FEBRUARY 1998 | |
|---|---------|----------|----------------------------------|-------------|--|---------|------------------------------|---------|
| APPROPRIATION/BUDGET ACTIVITY PAAF/MUNITIONS AND RELATED EQUIPMENT | | | | | P-1 ITEM NOMENCLATURE GBU-28 HARD TARGET PENETRATOR | | | |
| | FY 1996 | FY 1997 | FY 1998 | FY 1999 | FY 2000 | FY 2001 | FY 2002 | FY 2003 |
| QUANTITY | | 177 | 72 | 183 | 0 | 0 | 0 | 0 |
| COST (In Millions) | | \$18.417 | \$11.400 | \$24.256 | \$0.0 | \$0 | \$0 | \$0 |
| REMARKS | | | | | | | | |
| <p>1. THE GBU-28A/B IS 5000-LB CLASS LASER GUIDED BOMB (LGB) USED TO DEFEAT DEEPLY BURIED AND HARDENED TARGETS. IT CONSISTS OF THE BLU-113/B OR A/B WARHEAD, THE WGU-36A/B LASER GUIDANCE UNIT, THE BSG-92/B AIRFOIL GROUP AND THE FMU-143F/B, G/B OR H/B FUZE. THE ENHANCED GBU-28 ADDS AN INERTIAL NAVIGATION SYSTEM AND GLOBAL POSITIONING SYSTEM TO THE EXISTING TAIL KIT AUGMENTING THE LGB GUIDANCE. IT PROVIDES INCREASED ACCURACY IN THE ABSENCE OF WEATHER CONDITIONS FAVORABLE TO LASING.</p> <p>2. FY 99 QUANTITIES DIFFER FROM P-1 ENTRIES DUE TO UPDATED COST ESTIMATES.</p> | | | | | | | | |
| | | | P-1 SHOPP LIST ITEM NO. 13 | PAGE NO. 44 | | | | |

UNCLASSIFIED

UNCLASSIFIED

| AMMUNITION COST ANALYSIS (DOLLARS IN THOUSANDS) | | | | | | | | | | | DATE: FEBRUARY 1998 | | |
|---|------------|---------------|-------------|--------------------|--------------|-------------|----------|----------------------------|-------------|----------|-------------------------------|-----------|-------|
| APPROPRIATION AND P-1 LINE ITEM | | | | | | | | | | | | | |
| PAAF | | | | | | | | | | | GBU-28 HARD TARGET PENETRATOR | | |
| ELEMENT OF COST | IDENT CODE | FY97 QTY: 161 | | | FY98 QTY: 72 | | | FY99 QTY: 183 | | | QTY: | | |
| | | QTY | UNIT COST | TOTAL | QTY | UNIT COST | TOTAL | QTY | UNIT COST | TOTAL | QTY | UNIT COST | TOTAL |
| HARDWARE GBU-28A/B | | | | | | | | | | | | | |
| WGU-36A/B GUIDANCE/CONTROL UNIT | A | 161 | \$36,070.00 | \$5,807 | | | | | | | | | |
| WGU-36A/B ENHANCED GCU | | | | | 72 | \$61,315.00 | \$4,415 | 183 | \$61,315.00 | \$11,221 | | | |
| BSG-92/B AIRFOIL GROUP | | 161 | \$8,087.00 | \$1,302 | 72 | \$8,967.00 | \$646 | 183 | \$8,967.00 | \$1,641 | | | |
| CONDUIT ASSEMBLY | | | | | 72 | \$4,325.00 | \$311 | 183 | \$4,325.00 | \$791 | | | |
| BLU-113A/B WARHEAD | | 161 | \$40,777.00 | \$6,565 | 72 | \$41,633.32 | \$2,998 | 183 | \$41,659.90 | \$7,624 | | | |
| LOAD, ASSEMBLE AND PACK | | 161 | \$5,371.33 | \$864 | 72 | \$5,484.13 | \$395 | 183 | \$5,602.30 | \$1,025 | | | |
| CNU-554/E PALLET | | 161 | \$2,323.52 | \$374 | 72 | \$2,372.31 | \$171 | 183 | \$2,425.28 | \$444 | | | |
| FMU-143 F/B FUZE | | 48 | \$2,818.13 | \$135 | 14 | \$3,313.80 | \$46 | 28 | \$3,217.27 | \$90 | | | |
| FMU-143 G/B FUZE | | 90 | \$2,166.69 | \$195 | 44 | \$2,230.12 | \$98 | 94 | \$2,165.42 | \$204 | | | |
| FMU-143 H/B FUZE | | 38 | \$3,933.87 | \$149 | 44 | \$3,615.19 | \$159 | 92 | \$3,509.10 | \$323 | | | |
| SUBTOTAL | | | | \$15,392 | | | \$9,239 | | | \$23,363 | | | |
| TEST SET ADAPTER | | | | | 6 | \$90,000.00 | \$540 | 7 | \$90,000.00 | \$630 | | | |
| PRODUCTION SUPPORT | | | | | | | | | | | | | |
| RECURRING | | | | | | | | | | | | | |
| - FIRST ARTICLE TESTING | | | | \$303 | | | | | | \$178 | | | |
| - ENG GAGING/DRAWINGS | | | | \$168 | | | \$50 | | | \$30 | | | |
| AIRCRAFT INTEGRATION | | | | \$169 | | | \$46 | | | \$40 | | | |
| TECHNICAL DATA | | | | \$50 | | | \$25 | | | \$15 | | | |
| ECOS | | | | \$435 | | | \$700 | | | | | | |
| SUBTOTAL | | | | \$1,125 | | | \$821 | | | \$263 | | | |
| NON-RECURRING | | | | | | | | | | | | | |
| NON-RECURRING ENG SUPPORT | | | | \$1,900 | | | \$800 | | | | | | |
| SUBTOTAL | | | | \$1,900 | | | \$800 | | | | | | |
| TOTAL P-1 LINE | | | | \$18,417 | | | \$10,860 | | | \$24,256 | | | |
| | | | | P-1 ITEM NO. 13 | PAGE NO. 45 | | | EXHIBIT P-5 PAGE 1 OF 1 | | | | | |

UNCLASSIFIED

UNCLASSIFIED

BUDGET PROCUREMENT HISTORY PLANNING (P-5A)

A. DATE
FEBRUARY 1998

| B. APPROPRIATION/BUDGET ACTIVITY | | | | C. P-1 ITEM NOMENCLATURE | | | | | | |
|--|---------------------------------|---|--------------------------|--------------------------------------|---------------------------------------|-----------------|----------------------|--------------------------------|-------------------------------|-----------------------------------|
| PAAF/MUNITIONS AND RELATED EQUIPMENT | | | | GBU-28 HARD TARGET PENETRATOR | | | | | | |
| LINE ITEM/ FISCAL YEAR | CONTRACTOR/ LOCATION | CONTRACT METHOD & TYPE | CONTRACTED BY | AWARD DATE | DATE OF FIRST DELIVERY | QUANTITY | UNIT COST | SPECS AVAIL NOW | SPEC REV REQ'D | IF YES, WHEN AVAIL |
| WGU-36A/B GUIDANCE & CONTROL UNIT | | | | | | | | | | |
| FY 1997 | TEXAS INSTRUMENTS @ | SS/FP | AFMC/OO-ALC | OCT 97 | MAR 98 | 161 | 36,070.00 | | | |
| FY 1998 | TEXAS INSTRUMENTS | SS/FP | AFMC/OO-ALC | MAR 98 | SEP 99 | 72 | 61,315.00 | | | |
| FY 1999 | TEXAS INSTRUMENTS | OPTION | AFMC/OO-ALC | MAR 99 | SEP 00 | 183 | 61,315.00 # | YES | NO | |
| BSG-92/B AIRFOIL GROUP | | | | | | | | | | |
| FY 1997 | TEXAS INSTRUMENTS | SS/FP | AFMC/OO-ALC | OCT 97 | MAR 98 | 161 | 8,087.00 | | | |
| FY 1998 | TEXAS INSTRUMENTS | SS/FP | AFMC/OO-ALC | MAR 98 | SEP 99 | 72 | 8,967.00 | YES | NO | |
| FY 1999 | TEXAS INSTRUMENTS | OPTION | AFMC/OO-ALC | MAR 99 | SEP 00 | 183 | 8,967.00 | YES | NO | |
| CONDUIT ASSEMBLY | | | | | | | | | | |
| FY 1998 | TEXAS INSTRUMENTS | SS/FP | AFMC/OO-ALC | MAR 98 | SEP 99 | 72 | 4325.00 | YES | NO | |
| FY 1999 | TEXAS INSTRUMENTS | OPTION | AFMC/OO-ALC | MAR 99 | SEP 00 | 183 | 4325.00 | YES | NO | |
| BLU-113A/B WARHEAD | | | | | | | | | | |
| FY 1997 | NATIONAL FORGE ^ | C/FP | AFMC/OO-ALC | JUL 97 | MAY 98 | 161 | 40,777.00 | | | |
| FY 1998 | NATIONAL FORGE | SS/FP | AFMC/OO-ALC | MAR 98 | JAN 99 | 72 | 41,633.32 | YES | NO | |
| FY 1999 | UNKNOWN | C/FP | AFMC/OO-ALC | MAR 99 | JAN 00 | 183 | 41,659.90 | YES | NO | |
| FMU-143(F,G,&H)/B FUZES | | | | | | | | | | |
| FY 1997 F/B | DAYRON * | SS/FP | ARMY/IOC | JUN 97 | MAR 98 | 48 | 2,818.13 | | | |
| FMU 143 FUZES CONT'D | | | | | | | | | | |
| FY 1997 G/B | DAYRON | SS/FP | ARMY/IOC | JUN 97 | MAR 98 | 90 | 2,166.69 | | | |
| H/B | DAYRON | SS/FP | ARMY/IOC | JUN 97 | MAR 98 | 38 | 3,933.87 | | | |

D. REMARKS
 @ TEXAS INSTRUMENTS IS LOCATED IN DALLAS, TEXAS
 ^ NATIONAL FORGE, LOCATED IN IRVINE, PA., PRODUCES THE BOMB BODY. LOAD, ASSEMBLY, AND PACK (LAP) IS DONE BY MCALESTER AAP, LOCATED IN MCALESTER, OK.
 * DAYRON IS LOCATED IN ORLANDO, FL
 # ENHANCED GBU-28 GUIDANCE AND CONTROL UNTIS USE GLOBAL POSITIONING SYSTEM FOR INCREASED ACCURACY (AS PER P-40) AND COST.

UNCLASSIFIED

BUDGET PROCUREMENT HISTORY PLANNING (P-5A)

A. DATE
FEBRUARY 1998

| B. APPROPRIATION/BUDGET ACTIVITY PAAF/MUNITIONS AND RELATED EQUIPMENT | | | | C. P-1 ITEM NOMENCLATURE GBU-28 HARD TARGET PENETRATOR | | | | | | |
|---|-------------------------|------------------------------|------------------|--|------------------------------|----------|--------------|-----------------------|----------------------|--------------------------|
| LINE ITEM/ FISCAL YEAR | CONTRACTOR/ LOCATION | CONTRACT METHOD & TYPE | CONTRACTED BY | AWARD DATE | DATE OF FIRST DELIVERY | QUANTITY | UNIT COST | SPECS AVAIL NOW | SPEC REV REQ'D | IF YES, WHEN AVAIL |
| FY 1998 F/B | DAYRON | SS/FP | ARMY/IOC | MAR 98 | SEP 99 | 14 | 3,313.80 | YES | NO | |
| G/B | DAYRON | SS/FP | ARMY/IOC | MAR 98 | SEP 99 | 44 | 2,230.12 | YES | NO | |
| H/B | DAYRON | SS/FP | ARMY/IOC | MAR 98 | SEP 99 | 44 | 3,615.19 | YES | NO | |
| FY 1999 F/B | DAYRON | SS/FP | ARMY/IOC | MAR 99 | SEP 00 | 28 | 3,217.27 | YES | NO | |
| G/B | DAYRON | SS/FP | ARMY/IOC | MAR 99 | SEP 00 | 94 | 2,165.42 | YES | NO | |
| H/B | DAYRON | SS/FP | ARMY/IOC | MAR 99 | SEP 00 | 92 | 3,509.47 | YES | NO | |

D. REMARKS
 @ TEXAS INSTRUMENTS IS LOCATED IN DALLAS, TEXAS
 ^ NATIONAL FORGE, LOCATED IN IRVINE, PA., PRODUCES THE BOMB BODY. LOAD, ASSEMBLY, AND PACK (LAP) IS DONE BY MCALESTER AAP, LOCATED IN MCALESTER, OK.
 * DAYRON IS LOCATED IN ORLANDO, FL
 # ENHANCED GBU-28 GUIDANCE AND CONTROL UNTIS USE GLOBAL POSITIONING SYSTEM FOR INCREASED ACCURACY (AS PER P-40) AND COST.

P-1 SHOPP LIST
ITEM NO.
13

PAGE 47

Exhibit P-5A
PAGE 2 OF 2

UNCLASSIFIED

| FY98/99 BUDGET PRODUCTION SCHEDULE | | | | | | P-1 ITEM NOMENCLATURE: GBU-28 HARD TARGET PENETRATOR | | | | | | | | | | | | | | | | | | DATE: FEBRUARY 1998 | | | L A T E R | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|-------------------|-------------|---------------|------------|-----------------------|--|---------------|-------------|-----------------------------------|-----|-----|-----|-----|-----|-----|-----|------------------|-----|-----|-----|-----|-----|------------------|---------------------|-----|-----|-----------------------|----------------------------------|------------|-----|-----|------|-----------------------|----|-----|----|----------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|---|-----|-------|-----|-------|-----------------|--|---------------|-------------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|-----|-----|-----|-----|----------|-----------|------|-------|-------------------|--|--|--|--|--|---|----|----|---------|--|--|--|--|----|---|----|----|---------|--|--|--|--|--|---|----|----|--|--|--|--|--|-------------------|--|--|------|----------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|-------------|--|--|--------|-----------------------------------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| ITEM/MFG PROCUREMENT YEAR | S E R V | PROC QTY | ACCP PRIOR | BAL DUE | FISCAL YEAR 98 | | | | | | | | | | | | FISCAL YEAR 99 | | | | | | FISCAL YEAR 00 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | CALENDAR YEAR 98 | | | | | | | | | | | | CALENDAR YEAR 99 | | | | | | CALENDAR YEAR 00 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | 97 | 97 | 97 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | 1-Oct | 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 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| WGU-36A/B | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| TI | FY 97 | AF | 161 | 0 | 161 | C | | | | | | | | | | | | | | | | | | | | | | | 0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| TI | FY 98 | AF | 72 | 0 | 72 | | | | | | | | C | | | | | | | | | | | | | | 20 | 20 | 20 | 12 | | | | | 0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| TI | FY 99 | AF | 183 | 0 | 183 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 20 | 163 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| BSG-92 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| TI | FY 97 | AF | 161 | 0 | 161 | C | | | | | | | | | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 21 | | | | | | | | | | 0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| TI | FY 98 | AF | 72 | 0 | 72 | | | | | | | | | | | | | | | | | | | | | | | | | | | 20 | 20 | 20 | 12 | | 0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| TI | FY 99 | AF | 183 | 0 | 183 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 20 | 163 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| CONDUIT ASSY | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| FY 1998 | | AF | 72 | 0 | 72 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| FY 1999 | | AF | 183 | 0 | 183 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| BLU-113 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| NAT FORGE FY97 | | AF | 161 | 0 | 161 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| UNKNOWN FY 98 | | AF | 72 | 0 | 72 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| UNKNOWN FY 99 | | AF | 183 | 0 | 183 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| FMU-143 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| DAYRON FY97 | | AF | 176 | 0 | 176 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| DAYRON FY98 | | AF | 102 | 0 | 102 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| DAYRON FY99 | | AF | 214 | 0 | 214 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| TOTALS | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <table border="1"> <thead> <tr> <th>MANUFACTURER'S NAME AND LOCATION</th> <th colspan="3">PROD RATES</th> <th>REA-</th> <th colspan="4">PROCUREMENT LEAD TIME</th> <th colspan="20">REMARKS:</th> </tr> <tr> <th rowspan="3">TEXAS INSTRUMENTS, DALLAS, TX DAYRON, ORLANDO, FL NATIONAL FORGE IRVINE, PA</th> <th>MIN</th> <th>1-8-5</th> <th>MAX</th> <th>CH 0+</th> <th colspan="2">ADMIN LEAD TIME</th> <th>MANUFACTURING</th> <th>TOTAL AFTER</th> <th colspan="20" rowspan="3"></th> </tr> <tr> <td>UNK</td> <td>UNK</td> <td>UNK</td> <td>UNK</td> <th>PR 1 OCT</th> <th>AFT 1 OCT</th> <th>TIME</th> <th>1 OCT</th> </tr> </thead> <tbody> <tr> <td>WGU-36A/B; BSG-92</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>6</td> <td>18</td> <td>24</td> </tr> <tr> <td>BLU-113</td> <td></td> <td></td> <td></td> <td></td> <td>10</td> <td>6</td> <td>10</td> <td>16</td> </tr> <tr> <td>FMU-143</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>6</td> <td>18</td> <td>24</td> </tr> <tr> <td colspan="5"></td> <td colspan="3">P-1 SHOPPING LIST</td> <td>PAGE</td> <td colspan="20">PAGE NO.</td> </tr> <tr> <td colspan="5"></td> <td colspan="3">ITEM NO. 13</td> <td>NO. 48</td> <td colspan="20">PAGE 1 OF 2 PAGES EXHIBIT P-21</td> </tr> </tbody> </table> | | | | | | | | | | | | | | | | | | | | | | | | | | | | MANUFACTURER'S NAME AND LOCATION | PROD RATES | | | REA- | PROCUREMENT LEAD TIME | | | | REMARKS: | | | | | | | | | | | | | | | | | | | | TEXAS INSTRUMENTS, DALLAS, TX DAYRON, ORLANDO, FL NATIONAL FORGE IRVINE, PA | MIN | 1-8-5 | MAX | CH 0+ | ADMIN LEAD TIME | | MANUFACTURING | TOTAL AFTER | | | | | | | | | | | | | | | | | | | | | UNK | UNK | UNK | UNK | PR 1 OCT | AFT 1 OCT | TIME | 1 OCT | WGU-36A/B; BSG-92 | | | | | | 6 | 18 | 24 | BLU-113 | | | | | 10 | 6 | 10 | 16 | FMU-143 | | | | | | 6 | 18 | 24 | | | | | | P-1 SHOPPING LIST | | | PAGE | PAGE NO. | | | | | | | | | | | | | | | | | | | | | | | | | ITEM NO. 13 | | | NO. 48 | PAGE 1 OF 2 PAGES EXHIBIT P-21 | | | | | | | | | | | | | | | | | | | |
| MANUFACTURER'S NAME AND LOCATION | PROD RATES | | | REA- | PROCUREMENT LEAD TIME | | | | REMARKS: | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| TEXAS INSTRUMENTS, DALLAS, TX DAYRON, ORLANDO, FL NATIONAL FORGE IRVINE, PA | MIN | 1-8-5 | MAX | CH 0+ | ADMIN LEAD TIME | | MANUFACTURING | TOTAL AFTER | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | UNK | UNK | UNK | UNK | PR 1 OCT | AFT 1 OCT | TIME | 1 OCT | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | WGU-36A/B; BSG-92 | | | | | | 6 | 18 | | | | | | | | | | | | | | | | | | | | | 24 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| BLU-113 | | | | | 10 | 6 | 10 | 16 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| FMU-143 | | | | | | 6 | 18 | 24 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | P-1 SHOPPING LIST | | | PAGE | PAGE NO. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | ITEM NO. 13 | | | NO. 48 | PAGE 1 OF 2 PAGES EXHIBIT P-21 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

UNCLASSIFIED

UNCLASSIFIED

| FY98/99 BUDGET PRODUCTION SCHEDULE | | P-1 ITEM NOMENCLATURE: GBU-28 HARD TARGET PENETRATOR | | | | | | | | | | | | | | | | | | | | | | | | | | | DATE: FEBRUARY 1998 | | L A T E R | | | | | | |
|---|------------------|--|----------------|------------|------------------|----|----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------------------|-----|-----|-----|-----|-----|------------------|-----|-----|-----|-----|-----|---------------------|-----|-----------------------|-----|-----|-----|-----|-----|-----|
| ITEM/MFG PROCUREMENT YEAR | S E R V | PROC QTY | ACCPY PRIOR | BAL DUE | FISCAL YEAR 01 | | | | | | | | | | | | FISCAL YEAR 02 | | | | | | FISCAL YEAR 03 | | | | | | | | | | | | | | |
| | | | | | CALENDAR YEAR 01 | | | | | | | | | | | | CALENDAR YEAR 02 | | | | | | CALENDAR YEAR 03 | | | | | | | | | | | | | | |
| | | | | | 00 | 00 | 00 | 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 |
| WGU-36A/B | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| TI | FY 97 | AF | 161 | 161 | 0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 0 |
| TI | FY 98 | AF | 72 | 72 | 0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 0 | |
| TI | FY 99 | AF | 183 | 20 | 163 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 23 | | | | | | | | | | | | | | | | | | | | | | | 0 | |
| BSG-92 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| TI | FY 97 | AF | 161 | 161 | 0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 0 | | |
| TI | FY 98 | AF | 72 | 72 | 0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 0 | |
| TI | FY 99 | AF | 183 | 20 | 163 | 20 | 20 | 20 | 20 | 20 | 20 | 23 | | | | | | | | | | | | | | | | | | | | | | | | 0 | |
| CONDUIT ASSY | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| FY1998 | | AF | 72 | 72 | 0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| FY 1999 | | AF | 183 | 20 | 163 | 20 | 20 | 20 | 20 | 20 | 20 | 23 | | | | | | | | | | | | | | | | | | | | | | | | | |
| BLU-113 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| UNKNOWN | FY 97 | AF | 161 | 161 | 0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 0 | | |
| UNKNOWN | FY 98 | AF | 72 | 72 | 0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 0 | |
| UNKNOWN | FY 97 | AF | 183 | 183 | 0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 0 |
| FMU-143 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| DAYRON | FY97 | AF | 176 | 176 | 0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 0 | |
| DAYRON | FY97 | AF | 102 | 102 | 0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 0 |
| DAYRON | FY99 | AF | 214 | 214 | 0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 0 |
| TOTALS | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 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 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

| | | | | | | | | | | | | | | | | | | | |
|--|------------|-------|-----|-------|-------------------|-----------------------|-----------|--|----|--------------------|-------------------|-----------------------------------|--|--|--|--|--|----------|--|
| MANUFACTURER'S NAME AND LOCATION | PROD RATES | | | | REA- | PROCUREMENT LEAD TIME | | | | | | | | | | | | REMARKS: | |
| | MIN | 1-8-5 | MAX | CH 0+ | | ADMIN LEAD TIME | | | | MANUFACTURING TIME | TOTAL AFTER 1 OCT | | | | | | | | |
| | UNK | UNK | UNK | | PR 1 OCT | | AFT 1 OCT | | | | | | | | | | | | |
| | UNK | UNK | UNK | | WGU-36A/B; BSG-92 | | | | 6 | 18 | 24 | | | | | | | | |
| TEXAS INSTRUMENTS, DALLAS, TX DAYRON, ORLANDO, FL | | | | | BLU-113 | | | | 10 | 6 | 16 | | | | | | | | |
| | | | | | FMU-143 | | | | 6 | 18 | 24 | | | | | | | | |
| | | | | | | P-1 SHOPPING LIST | | | | PAGE | | | | | | | | | |
| | | | | | | ITEM NO. 13 | | | | NO. 49 | | | | | | | | | |
| | | | | | | | | | | PAGE NO. | | PAGE 2 OF 2 PAGES EXHIBIT P-21 | | | | | | | |

UNCLASSIFIED

| BUDGET ITEM JUSTIFICATION (EXHIBIT P-40) | | | | | | | DATE FEBRUARY 1998 | |
|--|---------|---------|----------------------------------|-------------|---------------------------------|---------|------------------------------|---------|
| APPROPRIATION/BUDGET ACTIVITY PAAF/MUNITIONS AND RELATED EQUIPMENT | | | | | P-1 ITEM NOMENCLATURE GBU-37 | | | |
| | FY 1996 | FY 1997 | FY 1998 | FY 1999 | FY 2000 | FY 2001 | FY 2002 | FY 2003 |
| QUANTITY | | | | 11 | 0 | 0 | 0 | 0 |
| COST (In Millions) | | \$0 | \$0 | \$.977 | \$0.0 | \$0 | \$0 | \$0 |
| REMARKS | | | | | | | | |
| <p>1. THE GBU-37 (GAM 113) IS A GLOBAL POSITIONING SYSTEM (GPS) AIDED, DEEP PENETRATING WEAPON, COMBINING THE BLU 113 BODY AND A MODIFIED GBU-36/B TAILKIT. IT PROVIDES AN ACCURATE, ADVERSE-WEATHER, HIGH ALTITUDE DELIVERY, DEEP PENETRATOR WEAPON. The GBU 37/B WEIGHS APPROXIMATELY 4600 LBS, HAS AN OVERALL TAIL FIN SPAN OF 31 INCHES, AND IS APPROXIMATELY 17 FEET LONG. THE GBU-37/B KIT CONSISTS OF AN AERODYNAMIC TRIP ASSEMBLY AND A TAIL ASSEMBLY, WHICH HOUSES THE GUIDANCE CONTROL UNIT (GCU), TWO GPS ANTENNAE, TWO THERMAL BATTERIES, AND ONE LITHIUM BATTERY. THE GCU CONTAINS FLIGHT SOFTWARE AND USES A MIL STD 1760 INTERACE. CARRIAGE IS FOUR GBU-37/B PER ROTARY LAUNCHER (RLA). EIGHT WEAPONS MAXIMUM PER B-2 MISSION. GBU-37/B USES THE FMU-143 FUZE IN COMBINATION WITH THE FZU-32 INITIATOR. THIS WEAPON PROVIDES THE B-2 WITH AN ADVERSE-WEATHER, PRECISION DEEP PENETRATION CAPABILITY CURRENTLY UNAVAILABLE WITH ANY OTHER WEAPON ON THE B-2 PLATFORM. CERTIFICATION WAS COMPLETED ON 29 JULY 1997 AND INITIAL OPERATIONAL CAPABILITY ESTABLISHED ON 26 NOVEMBER 1997.</p> <p>2. FY 99 QUANTITIES DIFFER FROM P-1 LINE ENTRIES DUE TO UPDATED COST ESTIMATES.</p> | | | | | | | | |
| | | | P-1 SHOPP LIST ITEM NO. 14 | PAGE NO. 50 | | | | |

UNCLASSIFIED

UNCLASSIFIED

| APPROPRIATION AND P-1 LINE ITEM | | | | | | | | | | DATE: | | | |
|---------------------------------|------------|-------------|-----------|--------------------|-------------|-------------|-------|----------------------------|-------------|---------------|-------|-----------|-------|
| PAAF | | | | | | | | | | FEBRUARY 1998 | | | |
| GBU-37 | | | | | | | | | | | | | |
| ELEMENT OF COST | IDENT CODE | FY97 QTY: 0 | | | FY98 QTY: 0 | | | FY99 QTY: 11 | | | QTY: | | |
| | | QTY | UNIT COST | TOTAL | QTY | UNIT COST | TOTAL | QTY | UNIT COST | TOTAL | QTY | UNIT COST | TOTAL |
| HARDWARE GBU-37 | | | | | | | | | | | | | |
| BLU 113 A/B WARHEAD | A | | | | | | | 11 | \$41,659.90 | \$458 | | | |
| LAP | | | | | | | | 11 | \$5,602.30 | \$62 | | | |
| GAM KIT | | | | | | | | 11 | \$30,000.00 | \$330 | | | |
| FMU 143 F/B | | | | | | | | 12 | \$3,217.27 | \$39 | | | |
| FMU 143G/B | | | | | | | | 12 | \$2,165.42 | \$26 | | | |
| FMU 143/H/B | | | | | | | | 16 | \$3,509.10 | \$56 | | | |
| SUBTOTAL | | | | | | | | | | \$971 | | | |
| NON-RECURRING | | | | | | | | | | | | | |
| TECHNICAL DATA | | | | | | | | | | | \$6 | | |
| TOTAL P-1 LINE | | | | | | | | | | | \$977 | | |
| | | | | P-1 ITEM NO. 14 | | PAGE NO. 51 | | EXHIBIT P-5 PAGE 1 OF 1 | | | | | |

UNCLASSIFIED

BUDGET PROCUREMENT HISTORY PLANNING (P-5A)

A. DATE
FEBRUARY 1998

| B. APPROPRIATION/BUDGET ACTIVITY PAAF/MUNITIONS AND RELATED EQUIPMENT | | | | C. P-1 ITEM NOMENCLATURE GBU-37 | | | | | | |
|--|-------------------------|------------------------------|------------------|------------------------------------|------------------------------|----------|--------------|-----------------------|----------------------|--------------------------|
| LINE ITEM/ FISCAL YEAR | CONTRACTOR/ LOCATION | CONTRACT METHOD & TYPE | CONTRACTED BY | AWARD DATE | DATE OF FIRST DELIVERY | QUANTITY | UNIT COST | SPECS AVAIL NOW | SPEC REV REQ'D | IF YES, WHEN AVAIL |
| BLU 113 A/B WARHEAD FY 1999 | UNKNOWN | C/FP | AFMC/OOALC | MAR 99 | JAN 00 | 11 | 41,659.90 | YES | NO | |
| GAM KIT FY 1999 | NORTHROP GRUMMAN # | SS/FP | AFMC/ASC | JAN 99 | JUL 99 | 11 | 30,000.00 | YES | NO | |
| FMU 143 FUZES* FY 1999 F/B | DAYRON @ | SS/FP | ARMY IOC | MAR 99 | SEP 00 | 12 | 3217.27 | YES | NO | |
| FY 1999 G/B | DAYRON | SS/FP | ARMY IOC | MAR 99 | SEP 00 | 12 | 2165.42 | YES | NO | |
| FY 1999 H/B | DAYRON | SS/FP | ARMY IOC | MAR 99 | SEP 00 | 16 | 3509.10 | YES | NO | |

D. REMARKS: # NORTHROP GRUMMAN IS LOCATED IN ROLLING MEADOWS, ILLINOIS. @ DAYRON IS LOCATED IN ORLANDO, FL.
E. * FMU 143 FUZE PROCUREMENT HISTORY REFLECTED IN GBU 28, P5A, LINE ITEM 13

P-1 SHOPP LIST
ITEM NO.
14

PAGE 52

Exhibit P-5A
PAGE 1 OF 2

UNCLASSIFIED

| FY98/99 BUDGET PRODUCTION SCHEDULE | | | | P-1 ITEM NOMENCLATURE: GBU-37 | | | | | | | | | | | | DATE: FEBRUARY 1998 | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|------------------|----------|-------------|-------------------------------|-----------------------|----|-------------------|--------------------|-----|-----|-------------------|-----|-------------|----------|-----|---------------------|------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----------------------|
| ITEM/MFG PROCUREMENT YEAR | S E R V | PROC QTY | ACCPT PRIOR | BAL DUE | FISCAL YEAR 98 | | | | | | | | | | | | FISCAL YEAR 99 | | | | | | | | | | | | FISCAL YEAR 00 | | | | | | | | | | | | L A T E R |
| | | | | | CALENDAR YEAR 98 | | | | | | | | | | | | CALENDAR YEAR 99 | | | | | | | | | | | | CALENDAR YEAR 00 | | | | | | | | | | | | |
| | | | | | 97 | 97 | 97 | 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 | |
| BLU 113A/B | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| FY 99 | AF | 11 | 0 | 11 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 0 | |
| GAM KIT | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| FY 99 | AF | 11 | 0 | 11 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 0 | |
| FMU 143 FUZES | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| FY 99 | AF | 40 | 0 | 40 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 40 | 0 | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| MANUFACTURER'S NAME AND LOCATION | PROD RATES | | | REA- | PROCUREMENT LEAD TIME | | | | | | | | | REMARKS: | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | MIN | 1-8-5 | MAX | CH 0+ | ADMIN LEAD TIME | | | MANUFACTURING TIME | | | TOTAL AFTER 1 OCT | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | PR 1 OCT | | AFT 1 OCT | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| UNKNOWN NORTHROP EISD, ROLLING MEADOWS, ILLINOIS DAYRON IS IN, ORLANDO, FL | UNK | UNK | UNK | | BLU 113 A | | | 6 | | 10 | | | 16 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | UNK | UNK | UNK | | GAM KIT | | | 4 | | 6 | | | 10 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | FMU 143 | | | 6 | | 18 | | | 24 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | P-1 SHOPPING LIST | | | | | | PAGE NO. 53 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | ITEM NO. 14 | | | | | | PAGE NO. 53 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

UNCLASSIFIED

| BUDGET ITEM JUSTIFICATION (EXHIBIT P-40) | | | | | | | DATE FEBRUARY 1998 | |
|---|---------|---------|----------------------------------|-------------|---|---------|------------------------------|---------|
| APPROPRIATION/BUDGET ACTIVITY PAAF/MUNITIONS AND RELATED EQUIPMENT | | | | | P-1 ITEM NOMENCLATURE BOMB PRACTICE 25 POUND | | | |
| | FY 1996 | FY 1997 | FY 1998 | FY 1999 | FY 2000 | FY 2001 | FY 2002 | FY 2003 |
| QUANTITY | | 200,000 | 397,760 | 273,257 | 546,380 | 544,987 | 492,443 | 602,718 |
| COST (In Millions) | | \$2.908 | \$5.613 | \$3.842 | \$8.248 | \$8.398 | \$7.734 | \$9.654 |
| REMARKS 1. THE BDU-33 IS A 25 POUND PRACTICE BOMB AND HAS A TEARDROP SHAPED METAL BODY WITH A TUBE CAVITY LENGTHWISE THROUGH THE CENTER, A CONICAL AFTER BODY, AND A CRUCIFORM TYPE FIN IN THE AFT END OF THE BOMB BODY. A FIRING PIN, INERTIA TUBE, AND STRIKER PLATE ARE SEPARATE COMPONENTS OF THE BOMB. A RECEPTACLE IS LOCATED FORWARD OF THE CENTER OF GRAVITY TO INSTALL A SINGLE SUSPENSION LUG IF REQUIRED. A HOLE IS PROVIDED IN EACH SIDE OF THE BODY FOR HANGING THE BOMB IN SUU-20 OR SUU-21 DISPENSERS. THE BDU-33 PRACTICE BOMB IS USED TO PROVIDE THE COMBAT AIR FORCES WITH AIRCREW WEAPONS DELIVERY TRAINING. 2. THIS ITEM IS PROCURED BY THE SINGLE MANAGER FOR CONVENTIONAL AMMUNITION (SMCA). FY97/98 COSTS BASED ON CONVENTIONAL AMMUNITION WORKING CAPITAL FUND(CAWCF) STANDARD PRICING. FY99 COSTS BASED ON ESTIMATED CONTRACTSUPPORT COSTS. 3. FY 99 QUANTITIES DIFFER FROM P-1 ENTRIES DUE TO UPDATED COST ESTIMATES. | | | | | | | | |
| | | | P-1 SHOPP LIST ITEM NO. 15 | PAGE NO. 54 | | | | |

UNCLASSIFIED

UNCLASSIFIED

| AMMUNITION COST ANALYSIS (DOLLARS IN THOUSANDS) | | | | | | | | | | | | | |
|---|------------|------------------|-----------|---------|------------------|-----------|---------|------------------|-----------|---------------|------|-----------|-------|
| APPROPRIATION AND P-1 LINE ITEM | | | | | | | | | | DATE: | | | |
| PAAF BOMB PRACTICE 25 POUND | | | | | | | | | | FEBRUARY 1998 | | | |
| ELEMENT OF COST | IDENT CODE | FY97 QTY: 200000 | | | FY98 QTY: 397760 | | | FY99 QTY: 273257 | | | QTY: | | |
| | | QTY | UNIT COST | TOTAL | QTY | UNIT COST | TOTAL | QTY | UNIT COST | TOTAL | QTY | UNIT COST | TOTAL |
| HARDWARE | | | | | | | | | | | | | |
| BDU-33D/B | A | 200000 | \$12.34 | \$2,468 | 397760 | \$13.35 | \$5,312 | 273257 | \$13.77 | \$3,762 | | | |
| SUBTOTAL | | | | \$2,468 | | | \$5,312 | | | \$3,762 | | | |
| PRODUCTION SUPPORT | | | | | | | | | | | | | |
| QUALITY ASSURANCE | | | | \$3 | | | \$13 | | | \$5 | | | |
| ACCEPTANCE TESTING | | | | \$27 | | | \$61 | | | \$75 | | | |
| INTERIM TRANSPORTATION | | | | \$23 | | | \$38 | | | | | | |
| INDUSTRIAL STOCK SUPPORT | | | | \$99 | | | \$189 | | | | | | |
| CAWCF GAIN/LOSS SURCHARGE | | | | \$288 | | | | | | | | | |
| SUBTOTAL | | | | \$440 | | | \$301 | | | \$80 | | | |
| TOTAL P-1 LINE ITEM | | 200000 | \$14.54 | \$2,908 | 397760 | \$14.11 | \$5,613 | 273257 | \$14.06 | \$3,842 | | | |

UNCLASSIFIED

BUDGET PROCUREMENT HISTORY PLANNING (P-5A)

A. DATE
FEBRUARY 1998

| B. APPROPRIATION/BUDGET ACTIVITY PAAF/MUNITIONS AND RELATED EQUIPMENT | | | | C. P-1 ITEM NOMENCLATURE BOMB PRACTICE 25 POUND | | | | | | |
|---|-------------------------|------------------------------|------------------|---|------------------------------|----------|--------------|-----------------------|----------------------|--------------------------|
| LINE ITEM/ FISCAL YEAR | CONTRACTOR/ LOCATION | CONTRACT METHOD & TYPE | CONTRACTED BY | AWARD DATE | DATE OF FIRST DELIVERY | QUANTITY | UNIT COST | SPECS AVAIL NOW | SPEC REV REQ'D | IF YES, WHEN AVAIL |

| | | | | | | | | | | |
|---------|------------|------|---------------------------|---------|--------|--------|-------|-----|----|--|
| FY 1997 | DEL FASCO* | C/FP | ARMY/IOC (AFMC/OO-ALC) | SEP 97@ | NOV 97 | 200000 | 14.54 | | | |
| FY 1998 | UNKNOWN | C/FP | ARMY/IOC (AFMC/OO-ALC) | MAR 98 | MAY 99 | 397760 | 14.11 | YES | NO | |
| FY 1999 | UNKNOWN | C/FP | ARMY/IOC (AFMC/OO-ALC) | MAR 99 | MAY 00 | 273257 | 14.06 | YES | NO | |

D. REMARKS

* DELFASCO IS LOCATED IN GREENVILLE, TN.
@ FY97 CONTRACT AWARD DATE SLIPPED FROM MAR 97 TO OCT 97 DUE TO ACQUISITION STRATEGY CHANGE FROM SMALL BUSINESS TO BEST VALUE SOLICITATION

P-1 SHOPP LIST
ITEM NO.
15

PAGE 56

Exhibit P-5A

UNCLASSIFIED

| FY99 BUDGET PRODUCTION SCHEDULE | | | | P-1 ITEM NOMENCLATURE: | BOMB PRACTICE 25 POUND | DATE: FEBRUARY 1998 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------------------------|------------------|-------------------|-------|------------------------|------------------------|---------------------|-----|-----------|-----|-----|---------------|----------|-----|-----|-----|-------------|------------------|-----|-----|---------------------------------|-----|-------------------|-----|-----|-----|-----------------------|------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|---|---|
| ITEM/MFG PROCUREMENT YEAR | S E R V | FISCAL YEAR 98 | | | FISCAL YEAR 99 | | | | | | | | | | | | FISCAL YEAR 00 | | | | | | | | | L A T E R | | | | | | | | | | | | | | | |
| | | PROC | ACCP | BAL | CALENDAR YEAR 98 | | | | | | | | | | | | CALENDAR YEAR 99 | | | | | | | | | | CALENDAR YEAR 00 | | | | | | | | | | | | | | |
| | | QTY | PRIOR | DUE | 97 | 97 | 97 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | 1-Oct | 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 | | |
| DELFASCO FY97 | AF | 200 | 0 | 200 | | 3 | 40 | 55 | 60 | 42 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 0 |
| UNKNOWN FY98 | AF | 398 | 0 | 398 | | | | | | C | | | | | | | | | | | | | 60 | 60 | 60 | 60 | 60 | 60 | 38 | | | | | | | | | | | 0 | |
| UNKNOWN FY99 | AF | 273 | 0 | 273 | | | | | | | | | | | | | | | | | | C | | | | | | | | | | | | 60 | 60 | 60 | 60 | 33 | | 0 | |
| TOTAL | | 871 | 0 | 871 | 0 | 3 | 40 | 55 | 60 | 42 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 60 | 60 | 60 | 60 | 60 | 60 | 38 | 0 | 0 | 0 | 0 | 0 | 60 | 60 | 60 | 60 | 33 | 0 | |
| MANUFACTURER'S NAME AND LOCATION | | PROD RATES | | REA- | PROCUREMENT LEAD TIME | | | | | | | | | | | | | | | REMARKS: QUANTITY IN THOUSANDS. | | | | | | | | | | | | | | | | | | | | | |
| DELFASCO, TN | | MIN | 1-8-5 | MAX | CH 0+ | ADMIN LEAD TIME | | | | | MANUFACTURING | | | | | TOTAL AFTER | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | 10 | 60 | 100.8 | | PR 1 OCT | | AFT 1 OCT | | | TIME | | | | | 1 OCT | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | INITIAL | | | | | 6 | | | | | 14 | | | | | 20 | | | | | | | | | | | | | | | | | | | | |
| | | | | REORDER | | | | | 6 | | | | | 14 | | | | | 20 | | | | | | | | | | | | | | | | | | | | | | |
| | | P-1 SHOPPING LIST | | | | | | | | | | PAGE | | | | | PAGE NO. | | | | | PAGE 1 OF 1 PAGES | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | ITEM NO. | | | | | 15 | | | | | NO. 57 | | | | | EXHIBIT P-21 | | | | | | | | | | | | | | |

UNCLASSIFIED

UNCLASSIFIED

| BUDGET ITEM JUSTIFICATION (EXHIBIT P-40) | | | | | | | DATE FEBRUARY 1998 | |
|---|---------|---------|----------------------------------|-------------|--|----------|------------------------------|----------|
| APPROPRIATION/BUDGET ACTIVITY PAAF/MUNITIONS AND RELATED EQUIPMENT | | | | | P-1 ITEM NOMENCLATURE 2000 LB HE BOMB MK-84 | | | |
| | FY 1996 | FY 1997 | FY 1998 | FY 1999 | FY 2000 | FY 2001 | FY 2002 | FY 2003 |
| QUANTITY | | 0 | 0 | 1948 | 4057 | 6418 | 8113 | 8613 |
| COST (In Millions) | | \$0 | \$0 | \$9.391 | \$13.035 | \$20.556 | \$26.661 | \$33.017 |
| REMARKS | | | | | | | | |
| <p>1. THE MK-84 IS A 2,000 POUND CLASS GENERAL PURPOSE BOMB. IT HAS A RELATIVELY THIN BOMB CASE THAT IS STREAMLINED TO REDUCE AERODYNAMIC DRAG. THE BOMB IS DESIGNED TO PRODUCE BLAST AND FRAGMENTATION EFFECTS AND CAN BE USED AS AN UNGUIDED HIGH OR LOW DRAG WEAPON. WHEN COMBINED WITH A GUIDANCE KIT, IT CAN BE EMPLOYED AS A PRECISION GUIDED BOMB. THE MK-84 CAN BE FUZED WITH PROXIMITY, INSTANTANEOUS OR DELAY FUZES TO PROVIDE A VARIETY OF MILITARY EFFECTS.</p> <p>2. THE FY 99 BUY IS FOR BOTH THE MK-84 BOMB AND THE MK-84 FIN ASSEMBLIES. THE MK-84 IS PROCURED THROUGH THE SINGLE MANAGER FOR CONVENTIONAL AMMUNITION(SMCA). FY99 COST IS BASED UPON ESTIMATED CONTRACT/SUPPORT COSTS. THE MK84 FIN ASSEMBLY IS USED ON THE MK-84 BOMB IN A CONICAL, OR LOW DRAG MODE.</p> <p>3. QUANTITIES ARE FOR THE MK-84 BOMB BODIES ONLY.</p> <p>4. FY 99 QUANTITIES DIFFER FROM P-1 ENTRIES DUE TO UPDATED COST ESTIMATES.</p> | | | | | | | | |
| | | | P-1 SHOPP LIST ITEM NO. 16 | PAGE NO. 58 | | | | |

UNCLASSIFIED

UNCLASSIFIED

| AMMUNITION COST ANALYSIS (DOLLARS IN THOUSANDS) | | | | | | | | | | | | | |
|--|------------|-------------|-----------|-------|-------------|-----------|-------|----------------|------------|---------------|------|-----------|-------|
| APPROPRIATION AND P-1 LINE ITEM | | | | | | | | | | DATE: | | | |
| PAAF 2000 LB HE BOMB, MK-84 | | | | | | | | | | FEBRUARY 1998 | | | |
| ELEMENT OF COST | IDENT CODE | FY97 QTY: 0 | | | FY98 QTY: 0 | | | FY99 QTY: 1950 | | | QTY: | | |
| | | QTY | UNIT COST | TOTAL | QTY | UNIT COST | TOTAL | QTY | UNIT COST | TOTAL | QTY | UNIT COST | TOTAL |
| HARDWARE MK84(F275) | | | | | | | | | | | | | |
| LOAD ASSEMBLE AND PACK (LAP) | A | | | | | | | 1950 | 781.81 | \$1,525 | | | |
| BOMB BODY MK84-4 | | | | | | | | 2008 | 2003.78 | \$4,023 | | | |
| LUG SUSPENSION MK 3 | | | | | | | | 4095 | 29.44 | \$120 | | | |
| PALLET MK79 | | | | | | | | 975 | 157 | \$153 | | | |
| PALLET INSPECTION MK 79 | | | | | | | | 975 | 57.11 | \$55 | | | |
| TNT TYPE I FLAKE (LB) | | | | | | | | 1448947 | 1.41 | \$2,043 | | | |
| ALUMINUM POWDER | | | | | | | | 366600 | 0.88 | \$322 | | | |
| SUBTOTAL | | | | | | | | | | \$8,241 | | | |
| PRODUCTION SUPPORT | | | | | | | | | | | | | |
| QUALITY ASSURANCE | | | | | | | | | | \$0 | | | |
| ACCEPTANCE TESTING | | | | | | | | | | \$0 | | | |
| INTERIM TRANSPORTATION | | | | | | | | | | \$100 | | | |
| INDUSTRIAL STOCK SUPPORT | | | | | | | | | | \$169 | | | |
| GOVERNMENT FURNISHED MATERIAL | | | | | | | | | | (\$2,641) | | | |
| SUBTOTAL | | | | | | | | | | (\$2,372) | | | |
| TOTAL | | | | | | | | 1950 | \$3,009.88 | \$ 5,869 | | | |
| NAVY ENGINEERING SUPPORT | | | | | | | | | | \$142 | | | |
| TOTAL MK-84 | | | | | | | | | | \$ 6,011 | | | |
| HARDWARE FIN ASSBLY(F607) | | | | | | | | | | | | | |
| | | | | | | | | 13428 | \$236.03 | \$3,169 | | | |
| PRODUCTION SUPPORT | | | | | | | | | | | | | |
| QUALITY ASSURANCE | | | | | | | | | | \$5 | | | |
| INDUSTRIAL STOCK SUPPORT | | | | | | | | | | \$64 | | | |
| SUBTOTAL | | | | | | | | 13428 | \$241.07 | \$3,238 | | | |
| NAVY ENGINEERING SUPPORT | | | | | | | | | | \$142 | | | |
| TOTAL FIN ASSEMBLY | | | | | | | | 13428 | | \$3,380 | | | |
| TOTAL P-1 LINE ITEM | | | | | | | | | | \$ 9,391 | | | |

UNCLASSIFIED

BUDGET PROCUREMENT HISTORY PLANNING (P-5A)

A. DATE
FEBRUARY 1998

| B. APPROPRIATION/BUDGET ACTIVITY PAAF/MUNITIONS AND RELATED EQUIPMENT | | | | C. P-1 ITEM NOMENCLATURE 2000 LB HE BOMB, MK-84 | | | | | | |
|--|-------------------------|------------------------------|---------------------------|--|------------------------------|----------|--------------|-----------------------|----------------------|--------------------------|
| LINE ITEM/ FISCAL YEAR | CONTRACTOR/ LOCATION | CONTRACT METHOD & TYPE | CONTRACTED BY | AWARD DATE | DATE OF FIRST DELIVERY | QUANTITY | UNIT COST | SPECS AVAIL NOW | SPEC REV REQ'D | IF YES, WHEN AVAIL |
| 2000 LB HE BOMB, MK-84 | | | | | | | | | | |
| FY 1991 | IMCO/MCAAP^ | SS/FP | ARMY/IOC (AFMG/OO-ALC) | DEC 91 | APR 95 | 3000 | 2073.81 | | | |
| FY 1999 | IMCO/MCAAP | SS/FP | ARMY/IOC (AFMG/OO-ALC) | JAN 99# | SEP 00 | 1948 | 3010.41 | YES | NO | |
| FIN ASSY BOMB F/2000 LB GP, MK-84 | | | | | | | | | | |
| FY 1992 | DAVID LILLY CO, INC@ | C/FP | ARMY/IOC (AFMG/OO-ALC) | JUN 92 | MAR 93 | 3000 | 154.85 | | | |
| FY 1999 | UNKNOWN | C/FP | ARMY/IOC (AFMG/OO-ALC) | MAR 99 | MAR 00 | 13428 | 241.07 | YES | NO | |

D. REMARKS

^ MCALESTER ARMY AMMUNITION PLANT (MCAAP), LOCATED IN MCALESTER, OK IS THE LAP FACILITY AND INTERCONTINENTAL MFG CO (IMCO), LOCATED IN GARLAND ,TX PROVIDES THE BOMB BODY.
 #AWARD DATE REFLECTS DATE OF LOAD, ASSEMBLE, AND PACK (LAP) CONTRACT AWARD.
 @ DAVID B. LILLY CO, INC, IS LOCATED IN WILMIINGTON, DE.

UNCLASSIFIED

| FY98/99 BUDGET PRODUCTION SCHEDULE | | | P-1 ITEM NOMENCLATURE: 2000 LB HE BOMB, MK-84 | | | | | | | | | | DATE: FEBRUARY 1998 | | | L A T E R | | | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------------------------|-----------------------------|-----------------------------------|---|-------|-----|-----|-----|-----|-----|-----|-----|-----|---------------------|------------------|-----|-----------------------|-----|-----|-----|------------------|-----|-----|-----|-------------|-----|-----|-----|-----|-----|---------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| ITEM/MFG PROCUREMENT YEAR | S E R V QTY | PROC ACCPT PRIOR DUE | FISCAL YEAR 98 | | | | | | | | | | | FISCAL YEAR 99 | | | | | | FISCAL YEAR 00 | | | | | | | | | | | | | | | | | | | | | | |
| | | | CALENDAR YEAR 98 | | | | | | | | | | | CALENDAR YEAR 99 | | | | | | CALENDAR YEAR 00 | | | | | | | | | | | | | | | | | | | | | | |
| | | | 1-Oct | 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 | |
| 2000 LB HE BOMB, MK-84 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| IMCO/MCAAP FY99 | AF | 1.9 0.0 1.9 | | | | | | | | | | | | | | | | C | | | | | | | | | | | | 1.2 0.7 | | | | | | | | | | | | |
| FIN ASSY BOMB, MK-84 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| UNKNOWN FY99 | AF | 13.4 0 13.4 | | | | | | | | | | | | | | | | C | | | | | | 6.0 6.0 1.4 | | | | | | 0 | | | | | | | | | | | | |
| TOTAL | | 15.3 0 15.3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 6 | 6 | 1.4 | 0 | 0 | 0 | 1 | 0.7 |

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|---------------------|-------|-----------------------|--|--------------------|--|-------------------|--|--|--|--|--|--|--|---|--|--|--|--|--|--|--|--|--|--|--|
| MANUFACTURER'S NAME AND LOCATION | PROD RATES | REA- | PROCUREMENT LEAD TIME | | | | | | | | | | | | REMARKS: QUANTITY IN THOUSANDS IMCO = INTERCONTINENTAL MANUFACTURING COMPANY. MCAAP = MCALESTER ARMY AMMUNITION PLANT. P-21 SCHEDULE REFLECTS LAP AWARD DATE AND DELIVERY START DATE FROM MCAAP. MIN, 1-8-5, AND MAX PRODUCTION RATES ARE BASED ON TOTAL MK-SERIES BOMB PRODUCTION. | | | | | | | | | | | |
| | MIN 1-8-5 MAX | CH 0+ | ADMIN LEAD TIME | | MANUFACTURING TIME | | TOTAL AFTER 1 OCT | | | | | | | | | | | | | | | | | | | |
| IMCO, GARLAND, TX MCAAP, MCALESTER, (BOMB BODY) | 1.2 2.4 4.8 | | MK-84 BOMB | | 4 20 | | 4 24 | | | | | | | | | | | | | | | | | | | |
| UNKNOWN FOR FIN ASSEMBLY | UNK UNK UNK | | FIN ASSEMBLY | | 6 12 | | 6 18 | | | | | | | | | | | | | | | | | | | |

| | | | | | | | |
|-------------------|--|-------------|--|----------|--|-------------|--|
| P-1 SHOPPING LIST | | PAGE NO. 61 | | PAGE NO. | | PAGE 1 OF 2 | |
| ITEM NO. 16 | | | | | | | |

UNCLASSIFIED

| FY98/99 BUDGET PRODUCTION SCHEDULE | | | P-1 ITEM NOMENCLATURE: | | 2000 LB HE BOMB, MK-84 | | | | | | | | | | | | | | | | | | | | | | | | DATE: FEBRUARY 1998 | | | | | | | | | | | | | | | | | | | | | | |
|--|------------|-------------|------------------------|------------|------------------------|----|----|-----|-----|-----|-----------------|----------|-----------|---------------|-----|-------|--|-----|-----|-----|-----|-----|-----|-------------------|-----|-----|-----|-----|---------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----------------------|-----|-----|-----|-----|-----|---|---|---|---|---|---|---|--|
| ITEM/MFG PROCUREMENT YEAR | SERV | PROC QTY | ACCP PRIOR | BAL DUE | FISCAL YEAR 01 | | | | | | | | | | | | FISCAL YEAR 02 | | | | | | | | | | | | FISCAL YEAR 03 | | | | | | | | | L A T E R | | | | | | | | | | | | | |
| | | | | | CALENDAR YEAR 01 | | | | | | | | | | | | CALENDAR YEAR 02 | | | | | | | | | | | | CALENDAR YEAR 03 | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | 00 | 00 | 00 | 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 | | | | | | | | |
| 2000 LB HE BOMB, MK-84 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| IMCO/MCAAP FY99 | AF | 1.9 | 1.2 | 0.7 | 0.7 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 0 | | |
| FIN ASSY BOMB, MK-84 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| UNKNOWN FY99 | AF | 13.4 | 13.4 | 0.0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 0 | |
| TOTAL | | 15.3 | 14.6 | 0.7 | 0.7 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| MANUFACTURER'S NAME AND LOCATION | PROD RATES | | REA- | | PROCUREMENT LEAD TIME | | | | | | | | | | | | REMARKS: QUANTITY IN THOUSANDS IMCO = INTERCONTINENTAL MANUFACTURING COMPANY. MCAAP = MCALESTER ARMY AMMUNITION PLANT. P-21 SCHEDULE REFLECTS LAP AWARD DATE AND DELIVERY START DATE FROM MCAAP. MIN, 1-8-5, AND MAX PRODUCTIN RATES ARE BASED ON TOTAL MK-SERIES BOMB PRODUCTION. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| IMCO, GARLAND, TX MCAAP, MCALESTER, OK (BOMB BODY) | MIN | 1-8-5 | MAX | CH 0+ | | | | | | | ADMIN LEAD TIME | | | MANUFACTURING | | | TOTAL AFTER | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | PR 1 OCT | | AFT 1 OCT | TIME | | 1 OCT | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 1.2 | 2.4 | 4.8 | | MK-84 BOMB | | | | | | | | 4 | 20 | | 24 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| UNKNOWN FOR FIN ASSEMBLY | UNK | UNK | UNK | | FIN ASSEMBLY | | | | | | | | 6 | 12 | | 18 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| P-1 SHOPPING LIST | | | | | | | | | | | | PAGE NO. | | | | | | | | | | | | PAGE 2 OF 2 PAGES | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ITEM NO. 16 | | | | | | | | | | | | NO. 62 | | | | | | | | | | | | EXHIBIT P-21 | | | | | | | | | | | | | | | | | | | | | | | | | | | |

UNCLASSIFIED

| BUDGET ITEM JUSTIFICATION (EXHIBIT P-40) | | | | | | | DATE FEBRUARY 1998 | |
|--|--|---------|----------------------------------|-------------|---|---------|------------------------------|---------|
| APPROPRIATION/BUDGET ACTIVITY PAAF/MUNITIONS AND RELATED EQUIPMENT | | | | | P-1 ITEM NOMENCLATURE MK-84 BOMB-EMPTY | | | |
| | | FY 1997 | FY 1998 | FY 1999 | FY 2000 | FY 2001 | FY 2002 | FY 2003 |
| QUANTITY | | 1500 | 994 | 2936 | 2690 | 2701 | 2725 | 3335 |
| COST (In Millions) | | \$3.510 | \$2.482 | \$7.138 | \$6.315 | \$6.469 | \$6.653 | \$8.302 |
| REMARKS | | | | | | | | |
| <p>1. THIS ITEM IS A MK-84 2000 POUND GENERAL PURPOSE BOMB THAT IS FILLED AT MCALESTER ARMY AMMUNITION PLANT WITH CONCRETE, VERMICULITE AND SAND. THE FILLED BOMB, WITHOUT FUZE WELLS OR PLUMBING, IS USED DURING TRAINING OR TEST WHEN A FULLY FUNCTIONAL BOMB IS NOT REQUIRED. THE BDU-56 SIMULATES THE DROP TRAJECTORY OF A MK-84.</p> <p>2. THE MK-84 IS PROCURED THROUGH THE SINGLE MANAGER FOR CONVENTIONAL AMMUNITION (SMCA). FY 97/98 COST IS BASED ON CONVENTIONAL AMMUNITION WORKING CAPITAL FUND (CAWCF) STANDARD PRICING. FY99 COST IS BASED ON ESTIMATED CONTRACT/ SUPPORT COSTS.</p> <p>3. FY 99 QUANTITIES DIFFER FROM P-1 ENTRIES DUE TO UPDATED COST ESTIMATES.</p> | | | | | | | | |
| | | | P-1 SHOPP LIST ITEM NO. 17 | PAGE NO. 63 | | | | |

UNCLASSIFIED

UNCLASSIFIED

| AMMUNITION COST ANALYSIS (DOLLARS IN THOUSANDS) | | | | | | | | | | | | | | |
|--|------------|------|-----------|-------|------|------------|----------|------|------------|---------------|------|------------|-----------|--|
| APPROPRIATION AND P-1 LINE ITEM | | | | | | | | | | DATE: | | | | |
| PAAF MK-84 BOMB-EMPTY | | | | | | | | | | FEBRUARY 1998 | | | | |
| ELEMENT OF COST | IDENT CODE | QTY: | | | FY97 | QTY: 1500 | | FY98 | QTY: 994 | | | FY99 | QTY: 2936 | |
| | | QTY | UNIT COST | TOTAL | QTY | UNIT COST | TOTAL | QTY | UNIT COST | TOTAL | QTY | UNIT COST | TOTAL | |
| HARDWARE BDU-56 (E756) | | | | | | | | | | | | | | |
| LOAD ASSEMBLE AND PACK (LAP) | A | | | | 1500 | \$216.97 | \$325 | 994 | 250.36 | \$249 | 2936 | \$226.16 | \$664 | |
| BOMB BODY W/O PLUMBING | | | | | 1545 | \$1,644.99 | \$2,542 | 1077 | 1876.31 | \$1,921 | 3026 | \$1983.71 | \$6,004 | |
| PALLET INSPECTION, MK 79 | | | | | | | | 2195 | 28.23 | \$59 | 1484 | \$57 | \$84 | |
| SUBTOTAL | | | | | | | \$2,867 | | | \$2,229 | | | \$6,752 | |
| PRODUCTION SUPPORT | | | | | | | | | | | | | | |
| QUALITY ASSURANCE | | | | | | | \$4 | | | \$6 | | | \$5 | |
| ACCEPTANCE TESTING | | | | | | | \$33 | | | \$28 | | | \$0 | |
| INTERIM TRANSPORTATION | | | | | | | \$29 | | | \$17 | | | \$96 | |
| INDUSTRIAL STOCK SUPPORT | | | | | | | \$121 | | | \$82 | | | \$143 | |
| CAWCF GAIN/LOSS SURCHARGE | | | | | | | \$336 | | | | | | | |
| SUBTOTAL | | | | | | | \$523 | | | \$133 | | | \$244 | |
| TOTAL | | | | | 1500 | \$2,259.70 | \$3,390 | 994 | \$2,374.01 | \$ 2,362 | 2963 | \$2,381.74 | \$ 6,996 | |
| NAVY ENGINEERING SUPPORT | | | | | | | \$120 | | | \$120 | | | \$142 | |
| TOTAL P-1 LINE ITEM | | | | | | | \$ 3,510 | | | \$ 2,482 | | | \$ 7,138 | |

UNCLASSIFIED

BUDGET PROCUREMENT HISTORY PLANNING (P-5A)

A. DATE
FEBRUARY 1998

| B. APPROPRIATION/BUDGET ACTIVITY PAAF/MUNITIONS AND RELATED EQUIPMENT | | | | C. P-1 ITEM NOMENCLATURE MK-84 BOMB-EMPTY | | | | | | |
|---|-------------------------|------------------------------|------------------|---|------------------------------|----------|--------------|-----------------------|----------------------|--------------------------|
| LINE ITEM/ FISCAL YEAR | CONTRACTOR/ LOCATION | CONTRACT METHOD & TYPE | CONTRACTED BY | AWARD DATE | DATE OF FIRST DELIVERY | QUANTITY | UNIT COST | SPECS AVAIL NOW | SPEC REV REQ'D | IF YES, WHEN AVAIL |

| | | | | | | | | | | |
|---------------------------------------|------------|-------|------------------------------|---------|--------|------|----------|-----|----|--|
| MK-84 BOMB-EMPTY BDU-56 (E756) | | | | | | | | | | |
| FY 1998 | IMCO/MCAAP | SS/FP | ARMY/AMCCOM (AFMC/OO-ALC) | JAN 98@ | SEP 99 | 994 | 2374.01# | | | |
| FY 1999 | IMCO/MCAAP | SS/FP | ARMY/AMCCOM (AFMC/OO-ALC) | JAN 99@ | SEP 00 | 2936 | 2381.74# | YES | NO | |

D. REMARKS
 @ AWARD DATE REFLECTS DATE OF LOAD, ASSEMBLE AND PACK (LAP) CONTRACT AWARD. MCALESTER ARMY AMMUNITION PLANT LOCATED IN MCALESTER, OK IS THE LAP FACILITY AND INTERCONTINENTAL MFG CO (IMCO), LOCATED IN GARLAND, TX PROVIDES THE BOMB BODY.

UNIT COSTS DO NOT INCLUDE FUNDS PROVIDED TO US NAVY FOR ENGINEERING SUPPORT COSTS.

P-1 SHOPP LIST
ITEM NO.
17

PAGE 65

Exhibit P-5A
PAGE 1 OF 1

UNCLASSIFIED

| BUDGET ITEM JUSTIFICATION (EXHIBIT P-40) | | | | | | | | DATE FEBRUARY 1998 | | |
|---|----------------|-----------|--|-----------|--|-----------|-----------|------------------------------|----------------|------------------|
| APPROPRIATION/BUDGET ACTIVITY PAAF/MUNITIONS AND RELATED EQUIPMENT | | | | | P-1 ITEM NOMENCLATURE SENSOR FUZED WEAPON | | | | | |
| | PRIOR YEARS | FY 1997 | FY 1998 | FY 1999 | FY 2000 | FY 2001 | FY 2002 | FY 2003 | TO COMPLETE | TOTAL PROGRAM |
| QUANTITY | 1045 | 542 | 556 | 295 | 455 | 326 | 277 | 538 | 966 | 5000 |
| COST (\$M) | \$501.840 | \$149.500 | \$150.150 | \$125.992 | \$151.804 | \$118.039 | \$109.163 | \$189.000 | \$306.106 | \$1,801.594 |
| INITIAL SPARES (\$M) | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 |
| TOTAL (\$M) | \$501.840 | \$149.500 | \$150.150 | \$125.992 | \$151.804 | \$118.039 | \$109.163 | \$189.000 | \$306.106 | \$1,801.594 |
| FLYAWAY UNIT COST (\$M) | \$0.480 | \$0.276 | \$0.270 | \$0.427 | \$0.334 | \$0.362 | \$0.394 | \$0.351 | \$0.317 | \$0.360 |
| WPN SYS PROC UNIT COST (\$M) | \$0.480 | \$0.276 | \$0.270 | \$0.427 | \$0.334 | \$0.362 | \$0.394 | \$0.351 | \$0.317 | \$0.360 |
| REMARKS | | | | | | | | | | |
| <p>1. THE SENSOR FUZED WEAPON (CBU-97) IS A CLUSTER MUNITION DESIGNED FOR USE AGAINST LAND COMBAT VEHICLES. THE MUNITION IS COMPRISED OF A TACTICAL MUNITIONS DISPENSER (TMD), CONTAINING 10 BLU-108 SUBMUNITIONS. EACH SUBMUNITION CONTAINS 4 WARHEADS, A PARACHUTE ASSEMBLY, ALTIMETER AND ROCKET MOTOR. THE TMD OPENS AFTER RELEASE FROM THE DELIVERY AIRCRAFT DISPENSING THE SUBMUNITIONS. THE SUBMUNITIONS ARE PARACHUTE RETARDED AND ORIENTED NOSE DOWNWARD. AFTER THE PARACHUTE IS EJECTED, THE ROCKET MOTOR IS FIRED TO LAUNCH THE WARHEADS. THE WARHEADS ARE THEN RELEASED IN A HORIZONTAL TRAJECTORY AND ARE TARGET ACTIVATED THROUGH A SMALL INFRARED SENSOR CONTAINED IN THE WARHEAD, FIRING A SELF FORGING PROJECTILE INTO THE TARGET. THIS MUNITION PROVIDES MULTIPLE KILLS PER PASS CAPABILITY.</p> <p>2. PRIOR YEARS (FY 96 AND BEFORE) FUNDING INCLUDES \$10.888M TO PROCURE 98 SEEK EAGLE UNITS. THE AVERAGE UNIT COST, EXCLUDING THE SEEK EAGLE UNITS, IS \$358k.</p> <p>3. THE DEFENSE ACQUISITION BOARD (DAB) APPROVED LOW RATE INITIAL PRODUCTION IN MARCH 1992 AND DIRECTED FOUR YEARS OF LOW RATE PRODUCTION. FULL RATE PRODUCTION (FRP) WAS APPROVED IN JUNE 1996 WITH MILESTONE III DECISION (ACQUISITION DEFENSE MEMO DATED 14 JUNE 1996). THE FIRST FRP CONTRACT WAS AWARDED 17 JUNE 1996 FRP 2 WAS AWARDED IN FEBRUARY 1997; FRP 3 IS SCHEDULED FOR FEBRUARY 1998.</p> | | | | | | | | | | |
| | | | P-1 SHOPP LIST ITEM NO. 18 | PAGE NO. | | | | | | |

UNCLASSIFIED

UNCLASSIFIED

| AMMUNITION COST ANALYSIS (DOLLARS IN THOUSANDS) | | | | | | | | | | | | | | | |
|---|------------|---------------|-----------|-----------|----------------|-----------|-----------|----------------|-----------|---------------------|------|-----------|---------------|--|--|
| APPROPRIATION AND P-1 LINE ITEM | | | | | | | | | | DATE | | | | | |
| PAAF | | | | | | | | | | SENSOR FUZED WEAPON | | | FEBRUARY 1998 | | |
| ELEMENT OF COST | IDENT CODE | FY97 QTY: 542 | | | FY 98 QTY: 556 | | | FY 99 QTY: 295 | | | QTY: | | | | |
| | | QTY | UNIT COST | TOTAL | QTY | UNIT COST | TOTAL | QTY | UNIT COST | TOTAL | QTY | UNIT COST | TOTAL | | |
| HARDWARE | | | | | | | | | | | | | | | |
| CBU-97/B | A | 542 | \$241 | \$130,622 | 556 | \$240 | \$133,440 | 295 | \$369 | \$108,855 | | | | | |
| ENGINEERING CHANGE ORDERS | | | | \$3,948 | | | \$2,690 | | | \$2,738 | | | | | |
| GFE | | | | \$2,171 | | | \$0 | | | \$2,105 | | | | | |
| SUBTOTAL | | | | \$136,741 | | | \$136,130 | | | \$113,698 | | | | | |
| NONRECURRING/ANC EQUIP | | | | | | | | | | | | | | | |
| TOOLING AND TEST EQUIP | | | | \$8,755 | | | \$10,955 | | | \$7,476 | | | | | |
| PRODUCTION SUPPORT | | | | | | | | | | | | | | | |
| LOT ACCEPTANCE TESTS | | | | \$1,212 | | | \$1,250 | | | \$1,574 | | | | | |
| PROG MGMT ADMIN (PMA) | | | | \$2,746 | | | \$1,742 | | | \$3,200 | | | | | |
| SUBTOTAL | | | | \$3,958 | | | \$2,992 | | | \$4,774 | | | | | |
| TOTAL FLYAWAY COSTS | | | | \$149,454 | | | \$150,077 | | | \$125,948 | | | | | |
| OTHER SUPPORT COSTS | | | | | | | | | | | | | | | |
| DATA | | | | \$46 | | | \$73 | | | \$44 | | | | | |
| TOTAL P-1 LINE ITEM | | 542 | \$276 | \$149,500 | 556 | \$270 | \$150,150 | 295 | \$427 | \$125,992 | | | | | |

UNCLASSIFIED

BUDGET PROCUREMENT HISTORY PLANNING (P-5A)

A. DATE
FEBRUARY 1998

| B. APPROPRIATION/BUDGET ACTIVITY PAAF/MUNITIONS AND RELATED EQUIPMENT | | | | C. P-1 ITEM NOMENCLATURE SENSOR FUZED WEAPON | | | | | | |
|---|-------------------------|------------------------------|------------------|--|------------------------------|----------|---------------|-----------------------|----------------------|--------------------------|
| LINE ITEM/ FISCAL YEAR | CONTRACTOR/ LOCATION | CONTRACT METHOD & TYPE | CONTRACTED BY | AWARD DATE | DATE OF FIRST DELIVERY | QUANTITY | UNIT COST | SPECS AVAIL NOW | SPEC REV REQ'D | IF YES, WHEN AVAIL |
| SENSOR FUZED WEAPON | | | | | | | | | | |
| FY 1997 | TEXTRON @ | SS/FPIF | AFMC/ASC | FEB 97 | JUN 98 | 542 | \$241,000.00# | | | |
| FY 1998 | TEXTRON | SS/FPIF | AFMC/ASC | FEB 98 | JUN 99 | 556 | \$240,000.00# | YES | NO | |
| FY 1999 | TEXTRON | SS/FPIF | AFMC/ASC | JAN 99 | JUN 00 | 295 | \$369,000.00# | YES | NO | |

D. REMARKS

@ TEXTRON SYSTEMS DIVISION IS LOCATED IN WILMINGTON, MA.

UNIT COSTS REFLECT COST OF CBU-97 HARDWARE ONLY. UNIT COST INCREASE IN FY 99 IS A RESULT OF INCORPORATING THE P3I PRODUCTION CUT-IN FOR FRP 4.

P-1 SHOPP LIST
ITEM NO.
18

PAGE 70

Exhibit P-5A

| FY98/99 BUDGET PRODUCTION SCHEDULE | | | | P-1 ITEM NOMENCLATURE: SENSOR FUZED WEAPON | | | | | | | | | | | | | | DATE: FEBRUARY 1998 | | | | | L A T E R | | | | | | | | | | | | | | | | | | |
|------------------------------------|------------------|-------------|----------------|--|----------------|-------|-------|------------------|------|-----------|---------------|--------------|-----------------------|------------------|-------|-------------------|----------------|---------------------|-----|------------------|-----|-----|-----------------------|-----|---|-----|-----|-----|----------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| ITEM/MFG PROCUREMENT YEAR | S E R V | PROC QTY | ACCPY PRIOR | BAL DUE | FISCAL YEAR 01 | | | | | | | | | | | | FISCAL YEAR 02 | | | | | | | | | | | | FISCAL YEAR 03 | | | | | | | | | | | | |
| | | | | | 00 | 00 | 00 | CALENDAR YEAR 01 | | | | | | CALENDAR YEAR 02 | | | | | | CALENDAR YEAR 03 | | | | | | | | | | | | | | | | | | | | | |
| | | | | 1-Oct | 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 |
| TEXTRON | FY95 | AF | 273 | 273 | 0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| TEXTRON | FY96 | AF | 521 | 521 | 0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| TEXTRON | FY97 | AF | 542 | 542 | 0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| TEXTRON | FY98 | AF | 556 | 556 | 0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| TEXTRON | FY99 | AF | 295 | 80 | 215 | 26 | 26 | 26 | 26 | 26 | 26 | 28 | 31 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| TOTAL | | | | | | 2,187 | 1,972 | 215 | 26 | 26 | 26 | 26 | 26 | 28 | 31 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | | | |
| MANUFACTURER'S NAME AND LOCATION | | | | | PROD RATES | | | | REA- | | | | PROCUREMENT LEAD TIME | | | | | | | | | | | | REMARKS: THE MINIMUM ECONOMICAL PRODUCTION RATE IS 500 UNITS PER YEAR.. THE MAXIMUM ECONOMICAL PRODUCTION RATE IS 600 UNITS PER YEAR. | | | | | | | | | | | | | | | | |
| MIN | | | | | 1-8-5 | MAX | CH 0+ | ADMIN LEAD TIME | | | MANUFACTURING | | | TOTAL AFTER | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| TEXTRON WILMINGTON, MA | | | | | 500 | UNK | 600 | PR 1 OCT | | AFT 1 OCT | | TIME | | | 1 OCT | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | INITIAL | | | 4 | | 17 | | | 21 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | REORDER | | | 4 | | 17 | | | 21 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| P-1 SHOPPING LIST | | | | | | | | PAGE | | | | PAGE NO. | | | | PAGE 2 OF 2 PAGES | | | | | | | | | | | | | | | | | | | | | | | | | |
| ITEM NO. 18 | | | | | | | | NO. 72 | | | | EXHIBIT P-21 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

UNCLASSIFIED

| BUDGET ITEM JUSTIFICATION (EXHIBIT P-40) | | | | | | | | DATE FEBRUARY 1998 | | |
|---|------------------------|----------------|-------------------------------------|----------------|---|----------------|----------------|-------------------------------|------------------------|--------------------------|
| APPROPRIATION/BUDGET ACTIVITY PAAF/MUNITIONS AND RELATED EQUIPMENT | | | | | P-1 ITEM NOMENCLATURE JOINT DIRECT ATTACK MUNITION | | | | | |
| | PRIOR YEARS | FY 1997 | FY 1998 | FY 1999 | FY 2000 | FY 2001 | FY 2002 | FY 2003 | TO COMPLETE | TOTAL PROGRAM |
| QUANTITY | 0 | 937 | 2400 | 2187 | 5779 | 11049 | 10617 | 10592 | 18439 | 62000 |
| GROSS COST (\$M) | \$0 | \$23.010 | \$54.949 | \$53.157 | \$127.999 | \$246.016 | \$216.298 | \$210.009 | \$427.814 | \$1359.252 |
| INITIAL SPARES (\$M) | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 |
| TOTAL (\$M) | \$0 | \$23.010 | \$54.949 | \$53.157 | \$127.999 | \$246.016 | \$216.298 | \$210.009 | \$427.814 | \$1359.252 |
| FLYAWAY UNIT COST (\$M) | N/A | \$0.019 | \$0.019 | \$0.020 | \$0.021 | \$0.021 | \$0.020 | \$0.019 | \$0.019 | \$0.020 |
| WPN SYS PROC UNIT COST (\$M) | N/A | \$0.025 | \$0.023 | \$0.025 | \$0.023 | \$0.023 | \$0.021 | \$0.021 | \$0.021 | \$0.022 |
| REMARKS | | | | | | | | | | |
| <p>1. OPERATION DESERT STORM CONFIRMED THE NEED FOR A MORE ACCURATE WEAPON DELIVERY CAPABILITY IN ADVERSE WEATHER CONDITIONS AND FROM MEDIUM/HIGH ALTITUDES. FAILURE TO SATISFY THIS REQUIREMENT WILL ALLOW THE ENEMY TO CONTINUE TO TAKE ADVANTAGE OF THE SANCTUARY OF WEATHER AND/OR PREVENT U.S. AIR POWER FROM PROSECUTING A CONFLICT ON ITS TERMS. THE JOINT DIRECT ATTACK MUNITION (JDAM) PROGRAM IS A JOINT AIR FORCE AND NAVY PROGRAM TO CORRECT THESE SHORTFALLS, WITH THE AIR FORCE AS EXECUTIVE SERVICE. JDAM WILL UPGRADE THE EXISTING INVENTORY OF GENERAL PURPOSE BOMBS (MK-84/BLU-109/B, AND MK-83) BY INTEGRATING THE BOMBS WITH A GUIDANCE KIT CONSISTING OF A GLOBAL POSITIONING SYSTEM AIDED INERTIAL NAVIGATION SYSTEM (GPS/INS). JDAM WILL PROVIDE AN ACCURATE (13 METERS), ADVERSE WEATHER CAPABILITY. JDAM WILL INITIALLY BE INTEGRATED WITH THE B-52, B-2, B-1B AND F/A-18C/D AIRCRAFT. FOLLOW-ON INTEGRATION WILL BE ON THE F-16, F-15E, F-22, AND OTHER AIRCRAFT. THE TOTAL PRODUCTION BUY FOR JDAM IS 87,496 UNITS (62,000 FOR THE AIR FORCE AND 25,496 FOR THE NAVY). THERE IS NO REQUIREMENT FOR INITIAL SPARES BECAUSE THE PROGRAM HAS A 20 YEAR WARRANTY.</p> <p>2. FY99 PROGRAM: CONTINUES THE PRODUCTION WITH 2187 KITS. REFERENCE PE 23783F OF THE AIR FORCE DESCRIPTIVE SUMMARIES.</p> | | | | | | | | | | |
| | | | P-1 SHOPP LIST ITEM NO. 20 | PAGE: 73 | | | | | | |

UNCLASSIFIED

UNCLASSIFIED

| AMMUNITION COST ANALYSIS (DOLLARS IN THOUSANDS) | | | | | | | | | | | | | |
|---|---------------|------------------------------|-----------|-------|-------|-----------|----------|-------|-----------|-----------------------|-------|-----------|----------|
| APPROPRIATION AND P-1 LINE ITEM PAAF | | | | | | | | | | DATE FEBRUARY 1998 | | | |
| ELEMENT OF COST | IDENT CODE | JOINT DIRECT ATTACK MUNITION | | | FY 97 | | | FY 98 | | | FY 99 | | |
| | | QTY | UNIT COST | TOTAL | QTY | UNIT COST | TOTAL | QTY | UNIT COST | TOTAL | QTY | UNIT COST | TOTAL |
| FLYAWAY COST | | | | | | | | | | | | | |
| HARDWARE-RECURRING | | | | | | | | | | | | | |
| AIRFRAME | A | | | | 937 | | \$16,617 | 2400 | | \$44,074 | 2187 | | \$41,158 |
| ENGINEERING CHANGE ORDERS | | | | | | | \$453 | | | \$1,238 | | | \$1,153 |
| SUBTOTAL | | | | | | | \$17,070 | | | \$45,312 | | | \$42,311 |
| NONRECURRING | | | | | | | | | | | | | |
| CONTRACTOR INCENTIVE | | | | | | | \$814 | | | \$1,293 | | | \$402 |
| SUBTOTAL | | | | | | | \$814 | | | \$1,293 | | | \$402 |
| TOTAL FLYAWAY COST | | | | | | | \$19 | | | \$19 | | | \$20 |
| SUPPORT COST | | | | | | | | | | | | | |
| TEST EQUIPMENT (CMBRE) | | | | | | | \$0 | | | \$1,027 | | | \$856 |
| AIRBORNE TEST EQUIPMENT | | | | | | | \$2,436 | | | \$2,157 | | | \$3,828 |
| DATA | | | | | | | \$553 | | | \$442 | | | \$406 |
| PMA | | | | | | | \$685 | | | \$887 | | | \$1,262 |
| SYSTEMS TEST & EVAL | | | | | | | \$222 | | | \$199 | | | \$0 |
| TRAINING | | | | | | | \$58 | | | \$56 | | | \$53 |
| PRODUCTION TECHNICAL SUPPORT | | | | | | | \$1,172 | | | \$3,272 | | | \$4,039 |
| SUBTOTAL | | | | | | | \$5,126 | | | \$8,040 | | | \$10,444 |
| AIRCRAFT FLIGHT CERTIFICATION ITEMS | | | | | | | | | | | | | |
| JDAM TEST UNITS | | | | | | | | | | \$304 | | | |
| SUBTOTAL | | | | | | | | | | \$304 | | | |
| TOTAL P-1 LINE ITEM | | | | | | | \$25 | | | \$23 | | | \$25 |

UNCLASSIFIED

BUDGET PROCUREMENT HISTORY PLANNING (P-5A)

A. DATE
FEBRUARY 1998

| B. APPROPRIATION/BUDGET ACTIVITY PAAF/MUNITIONS AND RELATED EQUIPMENT | | | | C. P-1 ITEM NOMENCLATURE JOINT DIRECT ATTACK MUNITION | | | | | | |
|---|-------------------------|------------------------------|------------------|---|------------------------------|----------|--------------|------------------------|----------------------|--------------------------|
| LINE ITEM/ FISCAL YEAR | CONTRACTOR/ LOCATION | CONTRACT METHOD & TYPE | CONTRACTED BY | AWARD DATE | DATE OF FIRST DELIVERY | QUANTITY | UNIT COST | SPECS AVAIL NOW* | SPEC REV REQ'D | IF YES, WHEN AVAIL |

| Joint Direct Attack Munition | | | | | | | | | | |
|-------------------------------------|----------|--------------------|----------|--------|--------|------|--------|-----|-----|--|
| FY 1997 | BOEING @ | SS/FFP (OPTION) | AFMC/ASC | APR 97 | MAY 98 | 937 | 24,557 | | | |
| FY 1998 | BOEING | SS/FFP (OPTION) | AFMC/ASC | APR 98 | MAY 99 | 2400 | 22,895 | N/A | N/A | |
| FY 1999 | BOEING | SS/FFP | AFMC/ASC | APR 99 | MAY 00 | 2187 | 24,747 | N/A | N/A | |

D. REMARKS
 * SPECIFICATIONS HAVE BEEN WAIVED DUE TO JDAM'S STATUS AS AN ACQUISITION REFORM PILOT PROGRAM.
 @ BOEING (FORMERLY MC DONNELL DOUGLAS) IS LOCATED IN ST LOUIS, MO.
 FY 97 AND FY98 CONTRACT IS AN OPTION TO THE FY 96 RESEARCH AND DEVELOPMENT (R&D) CONTRACT.

P-1 SHOPP LIST
ITEM NO. 20

PAGE: 75

Exhibit P-5A

UNCLASSIFIED

| BUDGET ITEM JUSTIFICATION (EXHIBIT P-40) | | | | | | | DATE FEBRUARY 1998 | |
|--|---------|---------|-------------------------------------|--|----------|-----------|-----------------------|----------|
| APPROPRIATION/BUDGET ACTIVITY PAAF/MUNITIONS AND RELATED EQUIPMENT | | | | P-1 ITEM NOMENCLATURE WIND CORRECTED MUNITIONS DISPENSER (WCMD) | | | | |
| | FY 1996 | FY 1997 | FY 1998 | FY 1999 | FY 2000 | FY 2001 | FY 2002 | FY 2003 |
| QUANTITY | | 0 | 280 | 676 | 3199 | 6883 | 7072 | 8379 |
| COST (In Millions) | | \$0 | \$11.974 | \$13.862 | \$49.807 | \$103.147 | \$108.904 | \$80.779 |
| REMARKS | | | | | | | | |
| <p>THE WCMD GUIDANCE KIT WILL PROVIDE INERTIAL NAVIGATION TO CORRECT FOR THE EFFECTS OF WIND TRANSIENTS AND BALLISTIC ERRORS CAUSED BY WIND WHEN THESE MUNITIONS ARE RELEASED FROM MEDIUM TO HIGH ALTITUDES. THE WCMD KIT FITTED WEAPONS WILL IMPROVE EFFECTIVENESS OF BOTH BOMBERS AND FIGHTERS AND SIGNIFICANTLY CONTRIBUTE TO AIR FORCE WAR FIGHTING CAPABILITIES IN TWO NEARLY SIMULTANEOUS MAJOR THEATER WARS(MTW). THE PILOT PRODUCTION (EMD) CONTRACT AWARDED TO LOCKHEED-MARTIN INCLUDES PRODUCTION OPTIONS FOR LOW RATE INITIAL PRODUCTION (LRIP) AND FULL RATE PRODUCTION. THE FIRST (LRIP) IS SCHEDULED IN FY98.</p> <p>2. SEEK EAGLE FUNDS ARE INCLUDED IN FY 98(\$4.012) AND FY01 (\$1.824), FOR A TOTAL BUY OF 486 UNITS. REFERENCE PE 27590F OF THE AIR FORCE DESCRIPTIVE SUMMARIES</p> | | | | | | | | |
| | | | P-1 SHOPP LIST ITEM NO. 21 | PAGE 78 | | | | |

UNCLASSIFIED

UNCLASSIFIED

| AMMUNITION COST ANALYSIS (DOLLARS IN THOUSANDS) | | | | | | | | | | | | | |
|--|------------|--------------|-----------|--------------------|----------------|-----------|-------------|----------------|-----------|----------------------------|-----------------------|-----------|-------|
| APPROPRIATION AND P-1 LINE ITEM PAAF WIND CORRECTED MUNITIONS DISPENSER | | | | | | | | | | | DATE FEBRUARY 1998 | | |
| ELEMENT OF COST | IDENT CODE | FY 97 QTY: 0 | | | FY 98 QTY: 280 | | | FY 99 QTY: 676 | | | QTY: | | |
| | | QTY | UNIT COST | TOTAL | QTY | UNIT COST | TOTAL | QTY | UNIT COST | TOTAL | QTY | UNIT COST | TOTAL |
| HARDWARE | | | | | | | | | | | | | |
| WCMD KITS | | | | | 280 | \$13 | \$3,640 | | 676 | \$13.1 | \$8,856 | | |
| ECO | | | | | | | \$2,396 | | | | \$2,047 | | |
| | | | | | | | | | | | \$0 | | |
| SUBTOTAL | | | | | | | \$6,036 | | | | \$10,903 | | |
| PRODUCTION SUPPORT | | | | | | | | | | | | | |
| DATA | | | | | | | \$4 | | | | \$4 | | |
| SYSTEM TEST | | | | | | | \$203 | | | | \$715 | | |
| PROG MGT ADMIN REQUIREMENTS | | | | | | | \$0 | | | | \$231 | | |
| OTHER WEAPON COSTS | | | | | | | \$1,719 | | | | \$2,009 | | |
| SUBTOTAL | | | | | | | \$1,926 | | | | \$2,959 | | |
| TOTAL WCMD | | | | | | | \$7,962 | | | | \$13,862 | | |
| AIRCRAFT FLIGHT CERTIFICATION ITEMS | | | | | | | | | | | | | |
| WCMD TEST KITS | | | | | | | \$4,008 | | | | \$0 | | |
| ECO | | | | | | | \$4 | | | | \$0 | | |
| TOTAL SEEK EAGLE | | | | | | | \$4,012 | | | | \$0 | | |
| TOTAL P-1 LINE ITEM | | | | | 280 | | \$11,974 | | 676 | | \$13,862 | | |
| | | | | P-1 ITEM NO. 21 | | | PAGE NO. 79 | | | EXHIBIT P-5 PAGE 1 OF 1 | | | |

UNCLASSIFIED

BUDGET PROCUREMENT HISTORY PLANNING (P-5A)

A. DATE
FEBRUARY 1998

| B. APPROPRIATION/BUDGET ACTIVITY PAAF/MUNITIONS AND RELATED EQUIPMENT | | | | C. P-1 ITEM NOMENCLATURE WIND CORRECTED MUNITIONS DISPENSER | | | | | | |
|---|-------------------------|------------------------------|------------------|---|------------------------------|----------|--------------|-----------------------|----------------------|--------------------------|
| LINE ITEM/ FISCAL YEAR | CONTRACTOR/ LOCATION | CONTRACT METHOD & TYPE | CONTRACTED BY | AWARD DATE | DATE OF FIRST DELIVERY | QUANTITY | UNIT COST | SPECS AVAIL NOW | SPEC REV REQ'D | IF YES, WHEN AVAIL |

| | | | | | | | | | | |
|---|------------------|-------------------|----------|--------|--------|-----|-----------|-----|----|--|
| WIND CORRECTED MUNITIONS DISPENSER | | | | | | | | | | |
| FY 1998 | LOCKHEED-MARTIN# | C/FFP | AFMC/ASC | JUN 98 | MAR 99 | 280 | \$13,000@ | YES | NO | |
| FY 1999 | LOCKHEED-MARTIN | C/FFP (OPTION) | AFMC/ASC | FEB 99 | NOV 99 | 676 | \$13,100@ | YES | NO | |

| | | | |
|--|------------------------------|---------|--------------|
| D. REMARKS # LOCKHEED-MARTIN, ORLANDO, FL @ UNIT COSTS REFLECT COST OF HARDWARE ONLY. | | | |
| | P-1 SHOPP LIST ITEM NO.21 | PAGE 80 | Exhibit P-5A |

**BUDGET ITEM JUSTIFICATION
(EXHIBIT P-40)**

DATE
FEBRUARY 1998

| | | | | | | | | |
|---|---------|---------|---------|---------|--|---------|---------|---------|
| APPROPRIATION/BUDGET ACTIVITY PAAF/MUNITIONS AND RELATED EQUIPMENT | | | | | P-1 ITEM NOMENCLATURE ITEMS LESS THAN \$2,000,000 (BOMBS) | | | |
| | FY 1996 | FY 1997 | FY 1998 | FY 1999 | FY 2000 | FY 2001 | FY 2002 | FY 2003 |
| QUANTITY | | | | | | | | |
| COST (In Millions) | | \$0.481 | \$0.168 | \$2.149 | \$1.399 | \$1.468 | \$1.501 | \$2.164 |

REMARKS

1. THIS CATEGORY CONSISTS OF INERT BOMBS, COMPONENTS AND VARIOUS OTHER ITEMS NECESSARY FOR PEACETIME OPERATIONS AND WAR RESERVE MATERIEL STOCKPILES.
3. ALL ITEMS HAVE AN ANNUAL PROCUREMENT VALUE OF LESS THAN \$2,000,000 AND ARE CODE A. ITEMS REQUESTED ARE IDENTIFIED ON THE FOLLOWING P-40A.

P-1 SHOPP
LIST ITEM NO.
22

PAGE NO. 82

UNCLASSIFIED

| BUDGET ITEM JUSTIFICATION FOR AGGREGATED ITEMS (EXHIBIT P-40A) | | | | | | DATE: FEBRUARY 1998 | | | |
|---|---------------|-------|--------------------|-------|--|---------------------|----------------|-------|------|
| APPROPRIATION/BUDGET ACTIVITY PAAF/MUNITIONS AND RELATED EQUIPMENT | | | | | P-1 NOMENCLATURE: ITEMS LESS THAN \$2,000,000 (BOMBS) | | | | |
| PROCUREMENT ITEMS | IDENT CODE | FY 97 | | FY 98 | | FY 99 | | FY 00 | |
| | | QTY | COST | QTY | COST | QTY | COST | QTY | COST |
| LANYARD ASSY BMB, B-1/B-2 (EA67) | A | | | | | 167382 | \$1,213 | | |
| ADAPTER ASSEMBLY (CY 16) | A | | | | | 23157 | \$863 | | |
| MISCELLANEOUS | A | | | | | | \$73 | | |
| TOTAL P-1 LINE ITEM | | | | | | | \$2,149 | | |
| | | | P-1 ITEM NO. 22 | | PAGE NO: 83 PAGE 1 OF 1 | | | | |

UNCLASSIFIED

UNCLASSIFIED

| BUDGET ITEM JUSTIFICATION (EXHIBIT P-40) | | | | | | | DATE FEBRUARY 1998 | |
|---|---------|---------|----------------------------------|-------------|---|---------|------------------------------|---------|
| APPROPRIATION/BUDGET ACTIVITY PAAF/MUNITIONS AND RELATED EQUIPMENT | | | | | P-1 ITEM NOMENCLATURE ASTE (INFRARED EXPENDABLE) | | | |
| | FY 1996 | FY 1997 | FY 1998 | FY 1999 | FY 2000 | FY 2001 | FY 2002 | FY 2003 |
| QUANTITY (In Thousands) | | 0 | 0 | 34,154 | 34,465 | 33,712 | 33,103 | 32,096 |
| COST (In Millions) | | \$0 | \$0 | \$4.886 | \$4.835 | \$4.828 | \$4.815 | \$4.806 |
| REMARKS | | | | | | | | |
| <p>1. THE ADVANCED STRATEGIC AND TACTICAL EXPENDABLES (ASTE) INTERFACE WITH THE ALE-4X SERIES DISPENSERS AND ARE USED TO PROTECT FIGHTER AND TRANSPORT AIRCRAFT (C-130,F-16,F-15) AGAINST THIRD/FOURTH GENERATION IR MISSILES THAT CONTAIN FLARE COUNTER-COUNTERMEASURES. WITHOUT THESE ADVANCED EXPENDABLES, AIRCRAFT HAVE INADEQUATE PROTECTION AGAINST THESE TYPE MISSILES AND, IN TIME OF CONFLICT, INCREASED AIRCRAFT LOSSES CAN BE EXPECTED.</p> <p>2. FOUR CONFIGURATIONS OF ASTE ARE BEING PROCURED. THE MJU-47/B IS A KINEMATIC FLARE DESIGNED TO FLY ALONG WITH AND/OR AHEAD OF THE AIRCRAFT. THE MJU-48/B IS A COMPANION FLARE DESIGNED TO BE USED IN CONJUNCTION WITH THE MJU-47/B. THE MJU-50/B AND MJU-51/B ARE COVERT FLARES THAT CONTAIN SPECIAL MATERIALS SO THE EXPENDING AIRCRAFT IS NOT ILLUMINATED.</p> <p>3. THE PROGRAM IS CURRENTLY IN RESEARCH AND DEVELOPMENT (PE 64270). DEVELOPMENT TEST AND EVALUATION (DT&E) IS SCHEDULED FOR FEB - APR 98; INITIAL OPERATIONAL TEST AND EVALUATION (IOT&E) IS SCHEDULED FOR AUG 98; TECHNICAL DATA PACKAGE AND SERVICE USE APPROVAL IS SCHEDULED FOR MAY 98.</p> | | | | | | | | |
| | | | P-1 SHOPP LIST ITEM NO. 24 | PAGE NO. 84 | | | | |

UNCLASSIFIED

UNCLASSIFIED

| AMMUNITION COST ANALYSIS (DOLLARS/QUANTITY IN THOUSANDS) | | | | | | | | | | | | | |
|--|------------|-------------|-----------|-------|-------------|-----------|-------|-----------------|-----------|---------------|------|-----------|-------|
| APPROPRIATION AND P-1 LINE ITEM | | | | | | | | | | DATE: | | | |
| PAAF ASTE (INFRARED EXPENDABLE) | | | | | | | | | | FEBRUARY 1998 | | | |
| ELEMENT OF COST | IDENT CODE | FY97 QTY: 0 | | | FY98 QTY: 0 | | | FY99 QTY: 13662 | | | QTY: | | |
| | | QTY | UNIT COST | TOTAL | QTY | UNIT COST | TOTAL | QTY | UNIT COST | TOTAL | QTY | UNIT COST | TOTAL |
| HARDWARE | | | | | | | | | | | | | |
| MJU-47/B | A | | | | | | | 13662 | \$169.00 | \$2,309 | | | |
| SUBTOTAL | | | | | | | | | | \$2,309 | | | |
| PRODUCTION SUPPORT | | | | | | | | | | | | | |
| TECH DATA | | | | | | | | | | \$75 | | | |
| ECOs | | | | | | | | | | \$125 | | | |
| FIRST ARTICLE TEST | | | | | | | | | | \$100 | | | |
| SUBTOTAL | | | | | | | | | | \$300 | | | |
| TOTAL MJU-47/B | | | | | | | | 13662 | | \$2,609 | | | |

UNCLASSIFIED

| AMMUNITION COST ANALYSIS | | | | | | | | | | | | (DOLLARS IN THOUSANDS) | | | | | |
|---------------------------------|------------|-------------|-----------|-------|-------------|-----------|-------|-----------------|-----------|----------------------------|------|------------------------|-------|--|---------------|--|--|
| APPROPRIATION AND P-1 LINE ITEM | | | | | | | | | | DATE: | | | | | | | |
| PAAF | | | | | | | | | | ASTE (INFRARED EXPENDABLE) | | | | | FEBRUARY 1998 | | |
| ELEMENT OF COST | IDENT CODE | FY97 QTY: 0 | | | FY98 QTY: 0 | | | FY99 QTY: 13662 | | | QTY: | | | | | | |
| | | QTY | UNIT COST | TOTAL | QTY | UNIT COST | TOTAL | QTY | UNIT COST | TOTAL | QTY | UNIT COST | TOTAL | | | | |
| HARDWARE | | | | | | | | | | | | | | | | | |
| MJU-48/B | A | | | | | | | 13662 | \$101.00 | \$1,380 | | | | | | | |
| SUBTOTAL | | | | | | | | | | \$1,380 | | | | | | | |
| PRODUCTION SUPPORT | | | | | | | | | | | | | | | | | |
| TECH DATA | | | | | | | | | | \$50 | | | | | | | |
| ECOs | | | | | | | | | | \$83 | | | | | | | |
| FIRST ARTICLE TEST | | | | | | | | | | \$67 | | | | | | | |
| SUBTOTAL | | | | | | | | | | \$200 | | | | | | | |
| TOTAL MJU-48/B | | | | | | | | 13662 | | \$1,580 | | | | | | | |

UNCLASSIFIED

| AMMUNITION COST ANALYSIS (DOLLARS IN THOUSANDS) | | | | | | | | | | | | | |
|---|------------|------|-----------|--------------------|------|-------------|-------|----------------------------|-----------|---------------|------|-----------|-------|
| APPROPRIATION AND P-1 LINE ITEM | | | | | | | | | | DATE: | | | |
| PAAF | | | | | | | | | | FEBRUARY 1998 | | | |
| ELEMENT OF COST | IDENT CODE | FY97 | | | FY98 | | | FY99 | | | QTY: | | |
| | | QTY | UNIT COST | TOTAL | QTY | UNIT COST | TOTAL | QTY | UNIT COST | TOTAL | QTY | UNIT COST | TOTAL |
| HARDWARE | | | | | | | | | | | | | |
| MJU-50/B | A | | | | | | | 3415 | \$58.00 | \$198 | | | |
| SUBTOTAL | | | | | | | | | | \$198 | | | |
| PRODUCTION SUPPORT | | | | | | | | | | | | | |
| TECH DATA | | | | | | | | | | \$7 | | | |
| ECOs | | | | | | | | | | \$12 | | | |
| FIRST ARTICLE TEST | | | | | | | | | | \$11 | | | |
| SUBTOTAL | | | | | | | | | | \$30 | | | |
| TOTAL MJU-50/B | | | | | | | | 3415 | | \$228 | | | |
| | | | | P-1 ITEM NO. 24 | | PAGE NO. 87 | | EXHIBIT P-5 PAGE 3 OF 4 | | | | | |

UNCLASSIFIED

UNCLASSIFIED

| AMMUNITION COST ANALYSIS (DOLLARS IN THOUSANDS) | | | | | | | | | | | | | |
|---|------------|-------------|-----------|-------|-------------|-----------|-------|----------------|-----------|---------------|------|-----------|-------|
| APPROPRIATION AND P-1 LINE ITEM | | | | | | | | | | DATE: | | | |
| PAAF | | | | | | | | | | FEBRUARY 1998 | | | |
| ELEMENT OF COST | IDENT CODE | FY97 QTY: 0 | | | FY98 QTY: 0 | | | FY99 QTY: 3415 | | | QTY: | | |
| | | QTY | UNIT COST | TOTAL | QTY | UNIT COST | TOTAL | QTY | UNIT COST | TOTAL | QTY | UNIT COST | TOTAL |
| HARDWARE | | | | | | | | | | | | | |
| MJU-51/B | A | | | | | | | 3415 | \$120.00 | \$410 | | | |
| SUBTOTAL | | | | | | | | | | \$410 | | | |
| PRODUCTION SUPPORT | | | | | | | | | | | | | |
| TECH DATA | | | | | | | | | | \$17 | | | |
| ECOs | | | | | | | | | | \$29 | | | |
| FIRST ARTICLE TEST | | | | | | | | | | \$24 | | | |
| SUBTOTAL | | | | | | | | | | \$70 | | | |
| TOTAL MJU-51/B | | | | | | | | 3415 | | \$480 | | | |
| TOTAL P-1 LINE ITEM | | | | | | | | | | \$4,897 | | | |

UNCLASSIFIED

BUDGET PROCUREMENT HISTORY PLANNING(P-5A)

DATE
FEBRUARY 1998

| B. APPROPRIATION/BUDGET ACTIVITY PAAF/MUNITIONS AND RELATED EQUIPMENT | | | | C. P-1 ITEM NOMENCLATURE ASTE (INFRARED EXPENDABLE) | | | | | | |
|--|-------------------------|------------------------------|------------------|--|------------------------------|----------|--------------|-----------------------|----------------------|--------------------------|
| LINE ITEM/ FISCAL YEAR | CONTRACTOR/ LOCATION | CONTRACT METHOD & TYPE | CONTRACTED BY | AWARD DATE | DATE OF FIRST DELIVERY | QUANTITY | UNIT COST | SPECS AVAIL NOW | SPEC REV REQ'D | IF YES, WHEN AVAIL |
| MJU-47/B | | | | | | | | | | |
| FY 1999 | TRACOR* | SS/FFP | AFMC/ASC | APR 99^ | SEP 99 | 13662 | 169.00# | NO | YES | AUG 98 |
| MJU-48/B | | | | | | | | | | |
| FY 1999 | TRACOR* | SS/FFP | AFMC/ASC | APR 99 | SEP 99 | 13662 | 101.00# | NO | YES | AUG 98 |
| MJU-50/B | | | | | | | | | | |
| FY 1999 | ASC** | SS/FFP | AFMC/ASC | APR 99 | SEP 99 | 3415 | 58.00# | NO | YES | AUG 98 |
| MJU-51/B | | | | | | | | | | |
| FY 1999 | ASC** | SS/FFP | AFMC/ASC | APR 99 | SEP 99 | 3415 | 120.00# | NO | YES | AUG 98 |

D. REMARKS

* TRACOR AEROSPACE IS LOCATED IN CAMDEN, AK.

** ALLOY SURFACES CO (ASC) IS LOCATED IN WILMINGTON, DE.

UNIT COST IS HARDWARE COST ONLY.

^ AWARD DATE IS DELAYED AWAITING MILESTONE III DECISION (FEB 99).

P-1 SHOPP LIST
ITEM NO.
24

PAGE NO. 89

Exhibit P-5A

UNCLASSIFIED

UNCLASSIFIED

| BUDGET ITEM JUSTIFICATION (EXHIBIT P-40) | | | | | | | DATE FEBRUARY 1998 | |
|---|---------|----------|----------------------------------|---|----------|----------|------------------------------|-----------|
| APPROPRIATION/BUDGET ACTIVITY PAAF/MUNITIONS AND RELATED EQUIPMENT | | | | P-1 ITEM NOMENCLATURE FLARE, IR MJU-7B | | | | |
| | FY 1996 | FY 1997 | FY 1998 | FY 1999 | FY 2000 | FY 2001 | FY 2002 | FY 2003 |
| QUANTITY | | 899,640 | 617,640 | 342,240 | 912,280 | 964,002 | 1,017,626 | 1,124,956 |
| COST (In Millions) | | \$20.018 | \$13.706 | \$8.882 | \$21.085 | \$22.739 | \$24.466 | \$27.579 |
| REMARKS | | | | | | | | |
| <p>1. THE MJU-7B IS AN INFRARED COUNTERMEASURES FLARE USED BY THE F-16 AND C-141 AIRCRAFT AGAINST HEAT SEEKING MISSILES. IT IS DISPENSED FROM THE AN/ALE-40(V). THE MJU-7B FLARE IS A PYROTECHNIC CANDLE THAT CREATES AN INFRARED SIGNATURE, ACTING AS A DECOY AGAINST HEAT SEEKING MISSILES. THE FLARE CANDLE IS EJECTED FROM THE DISPENSER BY A SMALL EXPLOSIVE CARTRIDGE(BBU-36) CONTAINED IN THE FLARE CASE.</p> <p>2. THIS ITEM IS PROCURED BY THE SINGLE MANAGER FOR CONVENTIONAL AMMUNITION. FY 97/98 COST IS BASED ON CONVENTIONAL AMMUNITION WORKING CAPITAL FUND (CAWCF) STANDARD PRICING. FY 99 COST IS BASED ON ESTIMATED CONTRACT/SUPPORT COSTS.</p> <p>3. FY 99 QUANTITIES DIFFER FROM P-1 ENTRIES DUE TO UPDATED COST ESTIMATES.</p> | | | | | | | | |
| | | | P-1 SHOPP LIST ITEM NO. 25 | PAGE NO. 91 | | | | |

UNCLASSIFIED

UNCLASSIFIED

AMMUNITION COST ANALYSIS (DOLLARS IN THOUSANDS)

| APPROPRIATION AND P-1 LINE ITEM | | | | | | | | | | | DATE: | | | | | |
|---------------------------------|------------|------------------|-----------|--------------|------------------|-----------|-------------|------------------|-----------|---------|------------------|-----------|-------|---------------|--|--|
| PAAF | | | | | | | | | | | FLARE, IR MJU-7B | | | FEBRUARY 1998 | | |
| ELEMENT OF COST | IDENT CODE | FY97 QTY: 899640 | | | FY98 QTY: 617640 | | | FY99 QTY: 342240 | | | QTY: | | | | | |
| | | QTY | UNIT COST | TOTAL | QTY | UNIT COST | TOTAL | QTY | UNIT COST | TOTAL | QTY | UNIT COST | TOTAL | | | |
| HARDWARE | | | | | | | | | | | | | | | | |
| MJU-7B | A | 899640 | \$18.89 | \$16,994 | 617640 | \$21.00 | \$12,972 | 342240 | \$25.41 | \$8,696 | | | | | | |
| SUBTOTAL | | | | \$16,994 | | | \$12,972 | | | \$8,696 | | | | | | |
| PRODUCTION SUPPORT | | | | | | | | | | | | | | | | |
| QUALITY ASSURANCE | | | | \$23 | | | \$33 | | | \$11 | | | | | | |
| ACCEPTANCE TESTING | | | | \$185 | | | \$149 | | | \$0 | | | | | | |
| INTERIM TRANSPORTATION | | | | \$161 | | | \$93 | | | \$0 | | | | | | |
| INDUSTRIAL STOCK SUPPORT | | | | \$671 | | | \$459 | | | \$175 | | | | | | |
| CAWCF GAIN/LOSS SURCHARGE | | | | \$1,984 | | | | | | | | | | | | |
| SUBTOTAL | | | | \$3,024 | | | \$734 | | | \$186 | | | | | | |
| TOTAL P1 LINE ITEM | | 899640 | \$22.25 | \$20,018 | 617640 | \$22.19 | \$13,706 | 342240 | \$26.34 | \$8,882 | | | | | | |
| | | | | P-1 ITEM NO. | | | | PAGE NO. 92 | | | | | | | | |
| | | | | 25 | | | | | | | | | | | | |
| | | | | | | | EXHIBIT P-5 | | | | | | | | | |
| | | | | | | | PAGE 1 OF 1 | | | | | | | | | |

UNCLASSIFIED

| | | | | | | | | | | |
|--|-------------------------|------------------------------|------------------|--|------------------------------|----------|--------------|----------------------------------|----------------------|--------------------------|
| BUDGET PROCUREMENT HISTORY PLANNING(P-5A) | | | | | | | | A. DATE FEBRUARY 1998 | | |
| B. APPROPRIATION/BUDGET ACTIVITY PAAF/MUNITIONS AND RELATED EQUIPMENT | | | | C. P-1 ITEM NOMENCLATURE FLARE, IR MJU-7B | | | | | | |
| LINE ITEM/ FISCAL YEAR | CONTRACTOR/ LOCATION | CONTRACT METHOD & TYPE | CONTRACTED BY | AWARD DATE | DATE OF FIRST DELIVERY | QUANTITY | UNIT COST | SPECS AVAIL NOW | SPEC REV REQ'D | IF YES, WHEN AVAIL |

| | | | | | | | | | | |
|----------------------|---------------|------|---------------------------|--------|--------|--------|-------|-----|----|--|
| FLARE MJU-7/B | | | | | | | | | | |
| FY 1997 | MARTIN ELECT@ | C/FP | ARMY/IOC (AFMC/OO-ALC) | SEP 97 | JUN 98 | 391870 | 22.25 | | | |
| FY 1997 | ALLIANT TECH& | C/FP | ARMY/IOC (AFMC/OO-ALC) | SEP 97 | JUN 98 | 507770 | 22.25 | | | |
| FY 1998 | UNKNOWN | C/FP | ARMY/IOC (AFMC/OO-ALC) | MAR 98 | APR 99 | 617640 | 22.19 | YES | NO | |
| FY 1999 | UNKNOWN | C/FP | ARMY/IOC (AFMC/OO-ALC) | MAR 99 | APR 00 | 342240 | 25.95 | YES | NO | |

| | | |
|--|---------|--------------|
| D. REMARKS & ALLIANT TECHSYSTEMS IS LOCATED IN TOONE, TN. @ MARTIN ELECTRONICS IS LOCATED IN PERRY, FL. | | |
| P-1 SHOPP LIST ITEM NO. 25 | PAGE 93 | Exhibit P-5A |

UNCLASSIFIED

| BUDGET ITEM JUSTIFICATION (EXHIBIT P-40) | | | | | | | DATE FEBRUARY 1998 | |
|--|---------|----------|----------------------------------|---|----------|----------|------------------------------|----------|
| APPROPRIATION/BUDGET ACTIVITY PAAF/MUNITIONS AND RELATED EQUIPMENT | | | | P-1 ITEM NOMENCLATURE MJU-10/B FLARE | | | | |
| | FY 1996 | FY 1997 | FY 1998 | FY 1999 | FY 2000 | FY 2001 | FY 2002 | FY 2003 |
| QUANTITY | | 214,584 | 175,536 | 201,456 | 194,533 | 194,925 | 195,756 | 247,182 |
| COST (In Millions) | | \$12.730 | \$10.557 | \$10.373 | \$11.987 | \$12.256 | \$12.546 | \$16.151 |
| REMARKS | | | | | | | | |
| <p>1. THIS ITEM IS AN INFRARED COUNTERMEASURES FLARE USED BY THE F-15 AIRCRAFT AGAINST HEAT SEEKING MISSILES. IT IS DISPENSED FROM THE AN/ALE-45. THIS FLARE IS APPROXIMATELY TWICE THE SIZE OF THE MJU-7/B FLARE, WHICH IS USED ON F-16 AND C-141 AIRCRAFT.</p> <p>2. THIS ITEM IS PROCURED BY THE SINGLE MANAGER FOR CONVENTIONAL AMMUNITION (SMCA). FY 98 COST IS BASED ON THE CONVENTIONAL AMMUNITION WORKING CAPITAL FUND (CAWCF) STANDARD PRICING. FY 99 COST IS BASED UPON ESTIMATED CONTRACT/SUPPORT COSTS.</p> <p>3. FY99 QUANTITIES DIFFER FROM P-1 ENTRIES DUE TO UPDATED COST ESTIMATES.</p> | | | | | | | | |
| | | | P-1 SHOPP LIST ITEM NO. 26 | PAGE NO. 96 | | | | |

UNCLASSIFIED

UNCLASSIFIED

| AMMUNITION COST ANALYSIS | | | | | | | | | | | | (DOLLARS IN THOUSANDS) | | |
|---------------------------------|---------------|--------|-----------|--------------------|--------|-----------|----------------------------|-------------|-----------|---------------|------|------------------------|-------|--|
| APPROPRIATION AND P-1 LINE ITEM | | | | | | | | | | DATE: | | | | |
| PAAF MJU-10/B | | | | | | | | | | FEBRUARY 1998 | | | | |
| ELEMENT OF COST | IDENT CODE | FY97 | | | FY98 | | | FY99 | | | QTY: | | | |
| | | QTY | UNIT COST | TOTAL | QTY | UNIT COST | TOTAL | QTY | UNIT COST | TOTAL | QTY | UNIT COST | TOTAL | |
| HARDWARE | | | | | | | | | | | | | | |
| MJU-10/B | A | 214584 | \$50.35 | \$10,805 | 175536 | \$56.92 | \$9,992 | 201456 | \$50.42 | \$10,157 | | | | |
| SUBTOTAL | | | | \$10,805 | | | \$9,992 | | | \$10,157 | | | | |
| PRODUCTION SUPPORT | | | | | | | | | | | | | | |
| QUALITY ASSURANCE | | | | \$15 | | | \$25 | | | \$11 | | | | |
| ACCEPTANCE TESTING | | | | \$118 | | | \$115 | | | \$204 | | | | |
| INTERIM TRANSPORTATION | | | | \$103 | | | \$72 | | | | | | | |
| INDUSTRIAL STOCK SUPPORT | | | | \$427 | | | \$353 | | | | | | | |
| CAWCF GAIN/LOSS SURCHARGE | | | | \$1,262 | | | \$0 | | | | | | | |
| SUBTOTAL | | | | \$1,925 | | | \$565 | | | \$215 | | | | |
| TOTAL P1 LINE ITEM | | 214584 | \$59.32 | \$12,730 | 175536 | \$60.14 | \$10,557 | 201456 | \$51.49 | \$10,372 | | | | |
| | | | | P-1 ITEM NO. 26 | | | | PAGE NO. 97 | | | | | | |
| | | | | | | | EXHIBIT P-5 PAGE 1 OF 1 | | | | | | | |

UNCLASSIFIED

UNCLASSIFIED

BUDGET PROCUREMENT HISTORY PLANNING(P-5A)

**DATE
FEBRUARY 1998**

| B. APPROPRIATION/BUDGET ACTIVITY PAAF/MUNITIONS AND RELATED EQUIPMENT | | | | C. P-1 ITEM NOMENCLATURE MJU-10/B FLARE | | | | | | |
|--|-------------------------|------------------------------|------------------|--|------------------------------|----------|--------------|-----------------------|----------------------|--------------------------|
| LINE ITEM/ FISCAL YEAR | CONTRACTOR/ LOCATION | CONTRACT METHOD & TYPE | CONTRACTED BY | AWARD DATE | DATE OF FIRST DELIVERY | QUANTITY | UNIT COST | SPECS AVAIL NOW | SPEC REV REQ'D | IF YES, WHEN AVAIL |

| | | | | | | | | | | |
|-----------------------|---------|------|---------------------------|--------|--------|--------|-------|-----|----|--|
| MJU-10/B FLARE | | | | | | | | | | |
| FY 1997 | TRACOR@ | C/FP | ARMY/IOC (AFMC/OO-ALC) | SEP 97 | AUG 98 | 214584 | 59.32 | | | |
| FY 1998 | UNKNOWN | C/FP | ARMY/IOC (AFMC/OO-ALC) | MAR 98 | APR 99 | 175536 | 60.14 | YES | NO | |
| FY 1999 | UNKNOWN | C/FP | ARMY/IOC (AFMC/OO-ALC) | MAR 99 | APR 00 | 201456 | 51.49 | YES | NO | |

D. REMARKS
@ TRACOR IS LOCATED IN CAMDEN, AR.

P-1 SHOPP LIST
ITEM NO.
26

PAGE 98

Exhibit P-5A

UNCLASSIFIED

| BUDGET ITEM JUSTIFICATION (EXHIBIT P-40) | | | | | | | DATE FEBRUARY 1998 | |
|--|---------|-----------|----------------------------------|--------------|--|----------|------------------------------|----------|
| APPROPRIATION/BUDGET ACTIVITY PAAF/MUNITIONS AND RELATED EQUIPMENT | | | | | P-1 ITEM NOMENCLATURE M-206 CARTRIDGE FLARE | | | |
| | FY 1996 | FY 1997 | FY 1998 | FY 1999 | FY 2000 | FY 2001 | FY 2002 | FY 2003 |
| QUANTITY | | 1,045,000 | 1,033,417 | 904,980 | 822,678 | 824,634 | 828,789 | 985,993 |
| COST <small>(In Millions)</small> | | \$12.791 | \$16.452 | \$11.430 | \$10.464 | \$10.703 | \$10.963 | \$12.696 |
| REMARKS | | | | | | | | |
| <p>1. THIS ITEM IS AN INFRARED COUNTERMEASURES FLARE USED BY THE A-10, C-130 AND AC-130 AIRCRAFT AGAINST HEAT SEEKING MISSILES.</p> <p>2. THIS ITEM IS PROCURED BY THE SINGLE MANAGER FOR CONVENTIONAL AMMUNITION (SMCA). FY 97/98 COSTS ARE BASED ON CONVENTIONAL AMMUNITION WORKING CAPITAL FUND (CAWCF) STANDARD PRICING. FY99 COST IS BASED ON ESTIMATED CONTRACT/SUPPORT COSTS.</p> <p>3. FY 99 QUANTITIES DIFFER FROM P-1 ENTRIES DUE TO UPDATED COST ESTIMATES.</p> | | | | | | | | |
| | | | P-1 SHOPP LIST ITEM NO. 27 | PAGE NO. 101 | | | | |

UNCLASSIFIED

UNCLASSIFIED

| AMMUNITION COST ANALYSIS (DOLLARS IN THOUSANDS) | | | | | | | | | | | | | |
|---|------------|---------|-----------|----------|---------|-----------|----------|--------|-----------|---------------|------|-----------|-------|
| APPROPRIATION AND P-1 LINE ITEM | | | | | | | | | | DATE: | | | |
| PAAF | | | | | | | | | | FEBRUARY 1998 | | | |
| M-206 CARTRIDGE FLARE | | | | | | | | | | QTY: | | | |
| ELEMENT OF COST | IDENT CODE | FY 97 | | | FY98 | | | FY99 | | | QTY: | | |
| | | QTY | UNIT COST | TOTAL | QTY | UNIT COST | TOTAL | QTY | UNIT COST | TOTAL | QTY | UNIT COST | TOTAL |
| HARDWARE | | | | | | | | | | | | | |
| M-206 FLARE | A | 1045000 | \$9.96 | \$10,409 | 1033417 | \$13.73 | \$14,197 | 904980 | \$12.25 | \$11,086 | | | |
| SUBTOTAL | | | | \$10,409 | | | \$14,197 | | | \$11,086 | | | |
| PRODUCTION SUPPORT | | | | | | | | | | | | | |
| PRODUCTION ENGINEERING | | | | \$476 | | | \$1,451 | | | \$111 | | | |
| QUALITY ASSURANCE | | | | \$15 | | | \$36 | | | \$11 | | | |
| ACCEPTANCE TESTING | | | | \$114 | | | \$163 | | | \$0 | | | |
| INTERIM TRANSPORTATION | | | | \$99 | | | \$102 | | | | | | |
| INDUSTRIAL STOCK SUPPORT | | | | \$410 | | | \$503 | | | \$222 | | | |
| CAWCF GAIN/LOSS SURCHARGE | | | | \$1,268 | | | \$0 | | | \$0 | | | |
| SUBTOTAL | | | | \$2,382 | | | \$2,255 | | | \$344 | | | |
| TOTAL P-1 LINE ITEM | | 1045000 | \$12.24 | \$12,791 | 1033417 | \$15.92 | \$16,452 | 904980 | \$12.63 | \$11,430 | | | |

UNCLASSIFIED

UNCLASSIFIED

BUDGET PROCUREMENT HISTORY PLANNING(P-5A)

A. DATE
FEBRUARY 1998

| B. APPROPRIATION/BUDGET ACTIVITY PAAF/MUNITIONS AND RELATED EQUIPMENT | | | | C. P-1 ITEM NOMENCLATURE M-206 CARTRIDGE FLARE | | | | | | |
|--|-------------------------|------------------------------|------------------|---|------------------------------|----------|--------------|-----------------------|----------------------|--------------------------|
| LINE ITEM/ FISCAL YEAR | CONTRACTOR/ LOCATION | CONTRACT METHOD & TYPE | CONTRACTED BY | AWARD DATE | DATE OF FIRST DELIVERY | QUANTITY | UNIT COST | SPECS AVAIL NOW | SPEC REV REQ'D | IF YES, WHEN AVAIL |

| M-206 CARTRIDGE FLARE | | | | | | | | | | |
|-----------------------|------------------|------|---------------------------|--------|--------|-----------|-------|-----|----|--|
| FY 1997 ^# | ALLIANT TECH SYS | C/FP | ARMY/IOC (AFMG/OO-ALC) | JUL 97 | DEC 97 | 623,000 | 12.24 | | | |
| FY 1997@# | TRACOR AEROSPACE | C/FP | ARMY/IOC (AFMG/OO-ALC) | JUL 97 | APR 98 | 422,000 | 12.24 | | | |
| FY 1998 | UNKNOWN | C/FP | ARMY/IOC (AFMG/OO-ALC) | MAR 98 | APR 99 | 1,033,417 | 15.92 | YES | NO | |
| FY 1999 | UNKNOWN | C/FP | ARMY/IOC (AFMG/OO-ALC) | MAR 99 | APR 00 | 904,980 | 12.63 | YES | NO | |

D. REMARKS

RESTRICTED SPECIFIED BASE ITEM REQUIRING TWO PRODUCERS
 ^ ALLIANT TECH SYSTEMS IS LOCATED IN TOONE, TN.
 @ TRACOR AEROSPACE IS LOCATED IN AUSTIN, TX.

UNCLASSIFIED

| BUDGET ITEM JUSTIFICATION (EXHIBIT P-40) | | | | | | | DATE FEBRUARY 1998 | |
|---|---------|---------|----------------------------------|----------------------------------|----------|----------|------------------------------|----------|
| APPROPRIATION/BUDGET ACTIVITY PAAF/MUNITIONS AND RELATED EQUIPMENT | | | | P-1 ITEM NOMENCLATURE CAD/PAD | | | | |
| | FY 1996 | FY 1997 | FY 1998 | FY 1999 | FY 2000 | FY 2001 | FY 2002 | FY 2003 |
| QUANTITY | | | | | | | | |
| COST (In Millions) | | \$0 | \$12.678 | \$14.275 | \$14.188 | \$14.162 | \$14.458 | \$14.770 |
| REMARKS | | | | | | | | |
| <p>1. CARTRIDGE ACTUATED DEVICES/PROPELLANT ACTUATED DEVICES (CAD/PAD), SUCH AS GAS GENERATORS, INITIATORS, SHIELD MILD DETONATING CORD (SMDC), ROCKET MOTORS, ROCKET CATAPULTS, ETC., ARE USED ON AIRCRAFT FIRE SUPPRESSION, EMERGENCY RELEASE AND AIRCREW ESCAPE SYSTEMS. THESE EXPLOSIVE DEVICES HAVE FINITE LIVES AND ARE REPLACED DURING SCHEDULED MAINTENANCE. AIRCRAFT OPERATIONAL AVAILABILITY IS DIRECTLY IMPACTED IF REPLACEMENT ASSETS ARE NOT AVAILABLE TO MEET CHANGE OUT REQUIREMENTS. LIFE SUPPORT DEVICES SUCH AS THE SEA WATER ACTIVATED RELEASE SYSTEM AND PARACHUTE RELEASE CARTRIDGES ARE ESSENTIAL TO CREW SURVIVAL AFTER EJECTION.</p> <p>2. FY 97 AND PRIOR FUNDING IS INCLUDED IN APPROPRIATION 3010, AIRCRAFT PROCUREMENT, AIR FORCE (APAF).</p> | | | | | | | | |
| | | | P-1 SHOPP LIST ITEM NO. 28 | PAGE NO. 106 | | | | |

UNCLASSIFIED

UNCLASSIFIED

AMMUNITION COST ANALYSIS (DOLLARS IN THOUSANDS)

| APPROPRIATION AND P-1 LINE ITEM | | | | | | | | | | DATE: | | | |
|--|------------|---------|-----------|-------|------|-----------|-------|------|-----------|---------------|------|-----------|----------|
| PAAF | | | | | | | | | | FEBRUARY 1998 | | | |
| ELEMENT OF COST | IDENT CODE | CAD/PAD | | | FY97 | | | FY98 | | | FY99 | | |
| | | QTY | UNIT COST | TOTAL | QTY | UNIT COST | TOTAL | QTY | UNIT COST | TOTAL | QTY | UNIT COST | TOTAL |
| B1-B EGRESS COMPONENTS/KITS | A | | | | | | | | | \$3,526 | | | \$4,438 |
| B-2 SHAPED CHARGES/EGRESS COMPONENTS | A | | | | | | | | | | | | \$1,186 |
| C-17A PANEL ASSYS/INITIATORS/EGRESS COMPONENTS | A | | | | | | | | | \$1,602 | | | |
| F-15 EGRESS COMPONENTS | A | | | | | | | | | \$618 | | | \$2,359 |
| F-16 EGRESS COMPONENTS | A | | | | | | | | | \$951 | | | \$547 |
| F-117A CANOPY REMOVER/JETTISON/EGRESS COMPONENTS | A | | | | | | | | | | | | \$349 |
| COMMON EGRESS COMPONENTS | A | | | | | | | | | \$2,000 | | | \$1,755 |
| MISC COMPONENTS LESS THAN \$500K | A | | | | | | | | | \$3,981 | | | \$3,641 |
| TOTAL P-1 LINE ITEM | | | | | | | | | | \$12,678 | | | \$14,275 |

UNCLASSIFIED

| BUDGET ITEM JUSTIFICATION (EXHIBIT P-40) | | | | | | | DATE FEBRUARY 1998 | |
|--|---------|---------|----------------------------------|--------------|---------------------------------------|---------|------------------------------|---------|
| APPROPRIATION/BUDGET ACTIVITY PAAF/MUNITIONS AND RELATED EQUIPMENT | | | | | P-1 ITEM NOMENCLATURE LUU-19 FLARE | | | |
| | FY 1996 | FY 1997 | FY 1998 | FY 1999 | FY 2000 | FY 2001 | FY 2002 | FY 2003 |
| QUANTITY | | 0 | 0 | 3926 | 0 | 0 | 0 | 0 |
| COST (In Millions) | | \$0 | \$0 | \$4.338 | \$0 | \$0 | \$0 | \$0 |
| REMARKS | | | | | | | | |
| <p>THE LUU 19/B AIRCRAFT PARACHUTE FLARE IS AN AIRCRAFT LAUNCHED ILLUMINATING DEVICE. THESE FLARES ARE CLASSIFIED ACCORDING TO USE, ILLUMINATION, AND BURN TIME. FLARES FOR AIRCRAFT USE PROVIDE ILLUMINATION FOR RECONNAISSANCE, BOMBARDMENT, EMERGENCY NIGHT LANDINGS OR SEARCH AND RESCUE. FLARES MAY BE DELIVERED/LAUNCHED FROM HIGH SPEED AIRCRAFT BY USE OF SUU 25 FLARE DISPENSERS OR LAUNCHED FROM THE C-130 AIRCRAFT USING LAU-74 CARGO DOOR LAUNCHERS. FLARES CAN ALSO BE HAND LAUNCHED OR LAUNCHED FROM AIRCRAFT UTILIZING STATIC LINE IGNITION. FLARES ARE ATTACHED TO AN 18 FOOT DIAMETER CRUCIFORM PARACHUTE, HAVE SETTINGS FROM 500 TO 11,000 FEET, AND FREE FALL PRIOR TO FUNCTIONING. THE FLARE CANDLE BURNS FOR APPROXIMATELY 5 MINUTES WITH A LEVEL OF 100 WATTS PER STERADIAN IN THE NEAR INFRARED SPECTRUM.</p> | | | | | | | | |
| | | | P-1 SHOPP LIST ITEM NO. 29 | PAGE NO. 108 | | | | |

UNCLASSIFIED

UNCLASSIFIED

BUDGET PROCUREMENT HISTORY PLANNING(P-5A)

A. DATE
FEBRUARY 1998

| B. APPROPRIATION/BUDGET ACTIVITY PAAF/MUNITIONS AND RELATED EQUIPMENT | | | | C. P-1 ITEM NOMENCLATURE LUU-19 FLARE | | | | | | |
|---|---------------------------------|---|--------------------------|---|---------------------------------------|-----------------|----------------------|--------------------------------|-------------------------------|-----------------------------------|
| LINE ITEM/ FISCAL YEAR | CONTRACTOR/ LOCATION | CONTRACT METHOD & TYPE | CONTRACTED BY | AWARD DATE | DATE OF FIRST DELIVERY | QUANTITY | UNIT COST | SPECS AVAIL NOW | SPEC REV REQ'D | IF YES, WHEN AVAIL |
| FY 1998* | THIOKOL CORP@ | SS/FP | (AFMC/OO-ALC) | MAR 98 | NOV 98 | 507 | 1105.00 | NO | YES | MAR 98 |
| FY 1999 | THIOKOL CORP | SS/FP | (AFMC/OO-ALC) | MAR 99 | NOV 99 | 3926 | 1105.00 | NO | YES | MAR 98 |

D. REMARKS

@ THIOKOL CORPORATION ORDNANCE OPERATION, UTAH DIVISION, IS LOCATED IN BRIGHAM CITY, UT.
* FY 98 BOUGHT IN ITEMS LESS THAN \$2M, OTHER, P-1 LINE #32

P-1 SHOPP LIST
ITEM NO.
29

PAGE 109

Exhibit P-5a

UNCLASSIFIED

UNCLASSIFIED

**BUDGET ITEM JUSTIFICATION
(EXHIBIT P-40)**

**DATE
FEBRUARY 1998**

**APPROPRIATION/BUDGET ACTIVITY
PAAF/MUNITIONS AND RELATED EQUIPMENT**

**P-1 ITEM NOMENCLATURE
REPLENISHMENT SPARES**

| | FY 1996 | FY 1997 | FY 1998 | FY 1999 | FY 2000 | FY 2001 | FY 2002 | FY 2003 |
|---------------|---------|---------|---------|----------|----------|----------|----------|----------|
| QUANTITY | | | | | | | | |
| COST (In Mil) | | \$1.651 | \$.932 | \$ 1.896 | \$ 2.204 | \$ 2.253 | \$ 2.125 | \$ 2.403 |

REPLENISHMENT SPARES ARE REPARABLE COMPONENTS, ASSEMBLIES AND SUBASSEMBLIES REQUIRED FOR FOLLOW-ON SUPPORT OF END ITEMS. MUNITIONS REPLENISHMENT SPARES REQUIREMENTS ARE BASED ON ITEM SPECIFIC FAILURE/DEMAND DRIVEN COMPUTATION.

UNCLASSIFIED

| BUDGET ITEM JUSTIFICATION FOR AGGREGATED ITEMS (EXHIBIT P-40A) | | | | | | | DATE: FEBRUARY 1998 | | |
|---|------------|-------|--------------------|---|----------|-------|---------------------|-----|------|
| APPROPRIATION/BUDGET ACTIVITY PAAF/MUNITIONS AND RELATED EQUIPMENT | | | | P-1 NOMENCLATURE: REPLENISHMENT SPARES | | | | | |
| PROCUREMENT ITEMS | IDENT CODE | FY 97 | | FY 98 | | FY 99 | | QTY | COST |
| | | QTY | COST | QTY | COST | QTY | COST | | |
| P-1 LINE # N/A GBU-15 | A | | \$560.00 | | \$301.00 | | \$705.00 | | |
| P-1 LINE #32 ITEMS LESS, OTHER | A | | \$253.00 | | \$147.00 | | \$21.00 | | |
| P-1 LINE #12 MK-84 INERT/BDU-50 | A | | \$55.00 | | \$0.00 | | \$0.00 | | |
| P-1 LINE # N/A GBU-24/27 | A | | \$251.00 | | \$0.00 | | \$269.00 | | |
| P-1 LINE # N/A ITEMS LESS, FUZES | A | | \$68.00 | | \$0.00 | | \$0.00 | | |
| P-1 LINE # 22 ITEMS LESS, BOMBS | A | | \$30.00 | | \$17.00 | | \$901.00 | | |
| P-1 LINE # 19 TTU-373A DIGITAL TEST SET | A | | \$434.00 | | \$467.00 | | | | |
| TOTAL P-1 LINE ITEM | | | \$1,651.00 | | \$932.00 | | \$1,896.00 | | |
| | | | P-1 ITEM NO. 30 | PAGE NO: 112 | | | PAGE 1 OF 1 | | |

UNCLASSIFIED

| | | | | | | | | |
|---|---------|---------|----------|--|---------|---------|-------------------------------|---------|
| UNCLASSIFIED | | | | | | | | |
| BUDGET ITEM JUSTIFICATION (EXHIBIT P-40) | | | | | | | DATE FEBRUARY 1998 | |
| APPROPRIATION/BUDGET ACTIVITY PAAF/MUNITIONS AND RELATED EQUIPMENT | | | | P-1 ITEM NOMENCLATURE MODIFICATIONS | | | | |
| | FY 1996 | FY 1997 | FY 1998 | FY 1999 | FY 2000 | FY 2001 | FY 2002 | FY 2003 |
| QUANTITY | | | | | | | | |
| COST (In Mil) | | \$.452 | \$ 2.135 | \$.049 | \$.670 | \$.689 | \$.775 | \$.913 |

Permanent modifications are configuration changes to in-service systems and equipment which correct material or other deficiencies, or which add or delete capability. Safety modifications correct deficiencies which would produce hazards to personnel, systems, or equipment. This budget line encompasses both new and on-going modification efforts for guided bombs and munitions systems. The amount budgeted in FY99 is to satisfy unforeseen requirements such as installation of field kits in support of contingency operations.

| MOD# | DESCRIPTION | PY | FY97 | FY98 | FY99 |
|------|-----------------------------|------|------|-------|------|
| N/A | MISCELLANEOUS LOW COST MODS | .155 | .452 | .146 | .049 |
| N/A | GAM 113 | | | 1.989 | |

| | | | |
|--|---------------------------------|--------------|--|
| | P-1 SHOPP LIST ITEM NO 31 | PAGE NO. 113 | |
|--|---------------------------------|--------------|--|

UNCLASSIFIED

UNCLASSIFIED

| BUDGET ITEM JUSTIFICATION (EXHIBIT P-40) | | | | | | | DATE FEBRUARY 1998 | |
|---|---------|---------|----------------------------------|----------|--|---------|------------------------------|---------|
| APPROPRIATION/BUDGET ACTIVITY PAAF/MUNITIONS AND RELATED EQUIPMENT | | | | | P-1 ITEM NOMENCLATURE ITEMS LESS THAN \$2,000,000 (OTHER ITEMS) | | | |
| | FY 1996 | FY 1997 | FY 1998 | FY 1999 | FY 2000 | FY 2001 | FY 2002 | FY 2003 |
| QUANTITY | | | | | | | | |
| COST (In Millions) | | \$3.236 | \$4.608 | \$4.447 | \$8.159 | \$8.296 | \$8.430 | \$8.606 |
| REMARKS | | | | | | | | |
| <p>1. THIS CATEGORY CONSISTS OF VARIOUS ITEMS INCLUDING BASE DEFENSE, RESCUE, EXPLOSIVE ORDNANCE DISPOSAL (EOD), AND OTHER ITEMS USED FOR AIRCREW AND GROUND TRAINING.</p> <p>2. ALL ITEMS ARE CODE A (APPROVED FOR SERVICE USE).</p> | | | | | | | | |
| | | | P-1 SHOPP LIST ITEM NO. 32 | PAGE NO. | | | | |

UNCLASSIFIED

AMMUNITION COST ANALYSIS (DOLLARS IN THOUSANDS)

| APPROPRIATION AND P-1 LINE ITEM PAAF | | | | | | | | | | DATE: FEBRUARY 1998 | | | |
|---|---------------|-----------|-----------|-------|-----------|-----------|-------|---------------|-----------|------------------------|---------------|-----------|----------------|
| ITEMS LESS THAN \$2,000,000 (OTHER ITEMS) | | | | | | | | | | | | | |
| ELEMENT OF COST | IDENT CODE | FY96 QTY: | | | FY97 QTY: | | | FY98 QTY: N/A | | | FY99 QTY: N/A | | |
| | | QTY | UNIT COST | TOTAL | QTY | UNIT COST | TOTAL | QTY | UNIT COST | TOTAL | QTY | UNIT COST | TOTAL |
| FLARE ADAPTER KIT (LY 15) | A | | | | | | | | | | 15,800 | | \$208 |
| PEPPER SPRAY (KM01) | A | | | | | | | | | | 996 | | \$18 |
| PEPPER SPRAYKM02) | A | | | | | | | | | | 2,020 | | \$36 |
| DISPENSER HOLSTER | A | | | | | | | | | | 2,020 | | \$29 |
| SIM HAND GRENADE (L601) | A | | | | | | | | | | 18,000 | | \$58 |
| PRAC GRENADE, WHITE (G982) | A | | | | | | | | | | 48,112 | | \$1,423 |
| ANDROS ROBOT | A | | | | | | | | | | 11 | | \$1,301 |
| EOD TRAINING AIDS | A | | | | | | | | | | 20 | | \$77 |
| XRAY SYSTEM ARS | A | | | | | | | | | | 59 | | \$830 |
| WRENCH STRAP | A | | | | | | | | | | 3 | | \$1 |
| HOLDING FIXTURE | A | | | | | | | | | | 10 | | \$7 |
| BOMB CONTAINMENT | A | | | | | | | | | | 5 | | \$459 |
| TOTAL P-1 LINE ITEM | | | | | | | | | | | | | \$4,447 |

P-1 ITEM NO.

32

PAGE NO. 115

EXHIBIT P-40a

PAGE 1 OF 1

UNCLASSIFIED

UNCLASSIFIED

| BUDGET ITEM JUSTIFICATION (EXHIBIT P-40) | | | | | | | DATE FEBRUARY 1998 | |
|---|---------|---------|----------------------------------|--------------|--|----------|------------------------------|----------|
| APPROPRIATION/BUDGET ACTIVITY PAAF/MUNITIONS AND RELATED EQUIPMENT | | | | | P-1 ITEM NOMENCLATURE JOINT PROGRAMMABLE FUZE (JPF) | | | |
| | FY 1996 | FY 1997 | FY 1998 | FY 1999 | FY 2000 | FY 2001 | FY 2002 | FY 2003 |
| QUANTITY | | 356 | 1,226 | 3,861 | 2,850 | 3,382 | 4,160 | 12,994 |
| COST (In Millions) | | \$4.125 | \$5.739 | \$15.326 | \$9.864 | \$11.330 | \$13.552 | \$42.911 |
| REMARKS | | | | | | | | |
| <p>1. THE FMU-152/B JOINT PROGRAMMABLE FUZE (JPF) IS A JOINT AF/NAVY MULTI-FUNCTION UNITARY FUZE BEING DEVELOPED AND PROCURED FOR THE JOINT DIRECT ATTACK MUNITION (JDAM) AND OTHER CONVENTIONAL INVENTORY WEAPONS. THE FMU-152/B WILL PROVIDE A HIGHLY RELIABLE BOMB FUZE WITH MULTIPLE ARM TIMES, INSTANTANEOUS AND MULTIPLE SHORT AND LONG DELAY DETONATION TIMES, HARD TARGET SURVIVABILITY, COCKPIT PROGRAMMABILITY, AND INCREASED SERVICE/SHELF LIFE. THE JPF WILL PROVIDE BACKWARD COMPATIBILITY FOR MK-80 SERIES GUIDED AND UNGUIDED BOMBS. IT WILL REPLACE OR SUPPLEMENT DIFFERENT INVENTORY FUZES SUCH AS THE FMU-139, FMU-143, FMU-124, AND M904/M905, AND PROVIDE THE NEXT GENERATION OF FUZING CAPABILITY FOR HARD TARGET, GENERAL PURPOSE AND GUIDED BOMBS.</p> <p>2. PROGRAM IS CURRENTLY IN RESEARCH AND DEVELOPMENT (PE 64602F). DEVELOPMENT TEST AND EVALUATION (DT&E) WAS COMPLETED IN APRIL 1997; COMPLETION OF INITIAL OPERATIONAL TEST AND EVALUATION (IOT&E) IS SCHEDULED FOR SEPTEMBER 1998; TECHNICAL DATA PACKAGE AND SERVICE USE APPROVAL IS SCHEDULED FOR MARCH 1998.</p> | | | | | | | | |
| | | | P-1 SHOPP LIST ITEM NO. 33 | PAGE NO. 116 | | | | |

UNCLASSIFIED

UNCLASSIFIED

| AMMUNITION COST ANALYSIS (DOLLARS IN THOUSANDS) | | | | | | | | | | | | | |
|---|------------|---------------|------------|--------------------|----------------|------------|---------|----------------------------|------------|---------------------|------|-----------|-------|
| APPROPRIATION AND P-1 LINE ITEM PAAF JOINT PROGRAMMABLE FUZE (JPF) | | | | | | | | | | DATE: FEBRUARY 1998 | | | |
| ELEMENT OF COST | IDENT CODE | FY97 QTY: 356 | | | FY98 QTY: 1226 | | | FY99 QTY: 3861 | | | QTY: | | |
| | | QTY | UNIT COST | TOTAL | QTY | UNIT COST | TOTAL | QTY | UNIT COST | TOTAL | QTY | UNIT COST | TOTAL |
| HARDWARE | | | | | | | | | | | | | |
| FMU-152/B | B | 356 | \$3,609.55 | \$1,285 | 1226 | \$2,865.42 | \$3,513 | 3861 | \$2,778.30 | \$10,727 | | | |
| SUBTOTAL | | | | \$1,285 | | | \$3,513 | | | \$10,727 | | | |
| PRODUCTION SUPPORT | | | | | | | | | | | | | |
| ECO/ECP | | | | \$103 | | | \$371 | | | \$2,353 | | | |
| SYSTEM ENGR/PROG MGT | | | | \$193 | | | \$529 | | | \$1,600 | | | |
| DATA | | | | \$26 | | | \$70 | | | \$250 | | | |
| CONTRACTOR SUPPORT | | | | \$205 | | | \$320 | | | \$349 | | | |
| FIRST ARTICLE ACCEPTANCE TEST | | | | \$957 | | | \$915 | | | \$0 | | | |
| SUBTOTAL | | | | \$1,484 | | | \$2,205 | | | \$4,552 | | | |
| NONRECURRING | | | | | | | | | | | | | |
| TOOLING/TEST EQUIPMENT | | | | \$1,351 | | | | | | | | | |
| GOV'T FURNISHED MATERIAL | | | | | | | | | | | | | |
| CONTAINERS | | | | \$5 | | | \$21 | | | \$47 | | | |
| TOTAL P-1 LINE ITEM | | 356 | | \$4,125 | 1226 | | \$5,739 | 3861 | | \$15,326 | | | |
| | | | | P-1 ITEM NO. 33 | PAGE NO. 117 | | | EXHIBIT P-5 PAGE 1 OF 1 | | | | | |

UNCLASSIFIED

UNCLASSIFIED

BUDGET PROCUREMENT HISTORY PLANNING (P-5A)

A. DATE
FEBRUARY 1998

| B. APPROPRIATION/BUDGET ACTIVITY PAAF/MUNITIONS AND RELATED EQUIPMENT | | | | C. P-1 ITEM NOMENCLATURE JOINT PROGRAMMABLE FUZE (JPF) | | | | | | |
|---|-------------------------|------------------------------|------------------|--|------------------------------|----------|--------------|-----------------------|----------------------|--------------------------|
| LINE ITEM/ FISCAL YEAR | CONTRACTOR/ LOCATION | CONTRACT METHOD & TYPE | CONTRACTED BY | AWARD DATE | DATE OF FIRST DELIVERY | QUANTITY | UNIT COST | SPECS AVAIL NOW | SPEC REV REQ'D | IF YES, WHEN AVAIL |

| JOINT PROGRAMMABLE FUZE | | | | | | | | | | |
|--------------------------------|----------|---------------|----------|---------|--------|------|---------|-----|----|--|
| FY 1997# | UNKNOWN* | C /FPIF | AFMC/ASC | JUN 98* | JAN 00 | 356 | 3609.55 | YES | NO | |
| FY 1998# | UNKNOWN | C /FPIF | AFMC/ASC | JUN 98 | MAR 00 | 1226 | 2865.42 | YES | NO | |
| FY 1999 | UNKNOWN | C/FFP(OPTION) | AFMC/ASC | JUL 99 | JUN 00 | 3861 | 2778.30 | YES | NO | |

| | | | |
|---|----------------------------------|----------|--------------|
| D. REMARKS | | | |
| <ul style="list-style-type: none"> MOTOROLA DIVESTED FROM THE FUZE BUSINESS RESULTING IN SLIPPAGE OF CONTRACT AWARD. FY97/98 CONTRACTS WILL BE COMBINED. UNIT COST REFLECTS HARDWARE PRICES ONLY. | | | |
| | P-1 SHOPP LIST ITEM NO. 33 | PAGE 118 | Exhibit P-5A |

UNCLASSIFIED

| BUDGET ITEM JUSTIFICATION (EXHIBIT P-40) | | | | | | | DATE FEBRUARY 1998 | |
|---|---------|-----------|----------------------------------|--------------|--|----------|------------------------------|---------|
| APPROPRIATION/BUDGET ACTIVITY PAAF/SMALL ARMS | | | | | P-1 ITEM NOMENCLATURE M-16 A2 RIFLE | | | |
| | FY 1996 | FY 1997 | FY 1998 | FY 1999 | FY 2000 | FY 2001 | FY 2002 | FY 2003 |
| QUANTITY | | | | | | | | |
| COST (In Millions) | | \$ 15.524 | \$ 6.009 | \$ 4.450 | \$ 1.934 | \$ 3.862 | \$ 0 | \$ 0 |
| REMARKS | | | | | | | | |
| <p>1. THE AIR FORCE'S CURRENT M-16A1 RIFLES ARE NEARLY 30 YEARS OLD. THE AGE OF THE WEAPONS AND NEED FOR REPAIR ARE CAUSING A MAINTENANCE BACKLOG. ADDITIONALLY, THE AIR FORCE IS BEGINNING TO USE THE NATO STANDARD 5.56MM AMMUNITION WHICH HAS BEEN ACCEPTED AS STANDARD ISSUE FOR ALL U. S. MILITARY SERVICES. THE NATO STANDARD 5.56MM IS FAR SUPERIOR TO THE CURRENT 5.56MM IN TERMS OF RANGE, ACCURACY, AND LETHALITY. YET, THE NATO 5.56MM IS NOT AS EFFECTIVE WHEN FIRED IN THE OLDER M-16A1 RIFLE. AS AN EXAMPLE, AN M-16A2 RIFLE USING THE NATO ROUND HAS A MAXIMUM EFFECTIVE RANGE THAT IS NEARLY DOUBLE OF THE M-16A1 USING THE SAME NATO ROUND. SECONDLY, THE CHANGE TO THE M-16A2 WILL REDUCE THE LOGISTICAL BURDEN CAUSED BY THE AIR FORCE BEING THE ONLY SERVICE USING THE M-16A1 RIFLE AND NON-NATO AMMUNITION.</p> <p>2. NO NEW RIFLES ARE BEING PROCURED. REQUESTED FUNDS WILL PROCURE KITS TO CONVERT M-16A1 RIFLES TO M-16A2 RIFLES. THE M-16A2 RIFLE RESEMBLES THE M-16A1 BUT HAS A NUMBER OF DIFFERENCES:</p> <p>A. IT CAN BE FIRED IN A SEMIAUTOMATIC AS WELL AS FULL AUTOMATIC (THREE ROUND BURST) MODE.</p> <p>B. THE RIFLE BARREL HAS A RIFLING TWIST THAT ENABLES IT TO FIRE THE NEW NATO STANDARD AMMUNITION AND THE NON-NATO AMMUNITION. ALSO, THE BARREL IS HEAVIER WHICH PROVIDES BETTER ACCURACY.</p> <p>C. THE RIFLE IS FITTED WITH A NEW REAR SIGHT, WHICH INCORPORATES ADJUSTMENTS FOR BOTH WINDAGE AND ELEVATION. A CARTRIDGE CASE DEFLECTOR ON THE RIGHT SIDE OF THE RECEIVER DEFLECTS EJECTED CARTRIDGES TO PRECLUDE THE POSSIBILITY OF THE EJECTED CARTRIDGES HITTING THE FACE OF THE LEFT-HANDED SHOOTER.</p> <p>D. A REDESIGNED HANDGUARD, USING TWO IDENTICAL HALVES, WITH A ROUND CONTOUR IS STURDIER AND PROVIDES A BETTER GRIP WHEN HOLDING THE RIFLE.</p> <p>E. A NEW BUTTSTOCK AND PISTOL GRIP MADE OF A TOUGHER MOLDABLE PLASTIC PROVIDES BETTER RESISTANCE TO BREAKAGE.</p> | | | | | | | | |
| | | | P-1 SHOPP LIST ITEM NO. 34 | PAGE NO. 121 | | | | |

UNCLASSIFIED

UNCLASSIFIED

| AMMUNITION COST ANALYSIS (DOLLARS IN THOUSANDS) | | | | | | | | | | | | | | |
|---|------------|-----------------|-----------|----------|--------------------------|-----------|---------|-----------------|-----------|--------------------------|------|-----------|-------|---------|
| APPROPRIATION AND P-1 LINE ITEM | | | | | | | | | | DATE: | | | | |
| PAAF M-16 A2 RIFLE | | | | | | | | | | FEBRUARY 1998 | | | | |
| ELEMENT OF COST | IDENT CODE | FY97 QTY: 58240 | | | FY98 QTY: 22183 | | | FY99 QTY: 16090 | | | QTY: | | | |
| | | QTY | UNIT COST | TOTAL | QTY | UNIT COST | TOTAL | QTY | UNIT COST | TOTAL | QTY | UNIT COST | TOTAL | |
| HARDWARE | | | | | | | | | | | | | | |
| RIFLE CONVERSION KIT | A | 58240 | \$257.91 | \$15,021 | 22183 | \$257.91 | \$5,721 | 16090 | \$263.59 | \$4,241 | | | | |
| SUBTOTAL | | | | \$15,021 | SUBTOTAL | | | | \$5,721 | SUBTOTAL | | | | \$4,241 |
| PRODUCTION SUPPORT | | | | | | | | | | | | | | |
| ARMY ENGINEERING SUPPORT | | | | \$425 | ARMY ENGINEERING SUPPORT | | | | \$239 | ARMY ENGINEERING SUPPORT | | | | \$173 |
| QUALITY ASSURANCE | | | | \$30 | QUALITY ASSURANCE | | | | \$30 | QUALITY ASSURANCE | | | | \$22 |
| TESTING | | | | \$48 | TESTING | | | | \$19 | TESTING | | | | \$14 |
| SUBTOTAL | | | | \$503 | SUBTOTAL | | | | \$288 | SUBTOTAL | | | | \$209 |
| TOTAL P1 LINE ITEM | | 58240 | \$266.55 | \$15,524 | 22183 | \$270.88 | \$6,009 | 16090 | \$276.56 | \$4,450 | | | | |

UNCLASSIFIED

UNCLASSIFIED

BUDGET PROCUREMENT HISTORY PLANNING(P-5A)

**A. DATE
FEBRUARY 1998**

| B. APPROPRIATION/BUDGET ACTIVITY | | | | C. P-1 ITEM NOMENCLATURE | | | | | | |
|---|---------------------------------|---|------------------------------|---------------------------------|---------------------------------------|-----------------|----------------------|--------------------------------|-------------------------------|-----------------------------------|
| PAAF/SMALL ARMS | | | | M-16 A2 RIFLE | | | | | | |
| LINE ITEM/ FISCAL YEAR | CONTRACTOR/ LOCATION | CONTRACT METHOD & TYPE | CONTRACTED BY | AWARD DATE | DATE OF FIRST DELIVERY | QUANTITY | UNIT COST | SPECS AVAIL NOW | SPEC REV REQ'D | IF YES, WHEN AVAIL |
| M-16 A2 CONVERSION KIT | | | | | | | | | | |
| FY 1996 ^\$ | CAPCO INC* | C/FP (OPTION) | ARMY/AMCCOM (AFMC/WR-ALC) | APR 97 | MAR 98 | 22,465 | 211.00 | | | |
| FY 1996 ^\$ | UNKNOWN | C/FP | ARMY/AMCCOM (AFMC/WR-ALC) | JUN 98 | APR 99 | 1,091 | 266.55 | YES | NO | |
| FY 1997 & | UNKNOWN | C/FP | ARMY/IOC (AFMC/WR-ALC) | JUN 98 | APR 99 | 58,240 | 266.55 | YES | NO | |
| FY 1998 & | UNKNOWN | C/FP (OPTION) | ARMY/IOC (AFMC/WR-ALC) | AUG 98 | MAR 00 | 22,183 | 270.88 | YES | NO | |
| FY 1999 & | UNKNOWN | C/FP (OPTION) | ARMY/IOC (AFMC/WR-ALC) | JUN 99 | AUG 00 | 16,090 | 276.56 | YES | NO | |

D. REMARKS

*CAPCO INC LOCATED IN GRAND JUNCTION, CO.
 ^ FY 96 CONTRACT AWARD DELAYED DUE TO CONTRACT PROTEST BY COLT MANUFACTURING.
 \$ FY 96 FUNDING SPLIT BETWEEN TWO CONTRACTS. \$4.759 MILLION WAS APPLIED TO TAKE MAXIMUM ADVANTAGE OR A PREVIOUS OPTION. THE REMAINING \$.289 MILLION COMBINED WITH
 FY 97 FUNDING FOR NEW CONTRACT AWARD.
 & FY 97- FY 99 PRICING BASED ON PRICE QUOTE FROM HQ ACALA, DATED JUN 97.
 FY 97 CONTRACT AWARD DATE SLIPPED. HQ ACALA HAS NOT DEFINITIZED ACQUISITION PLAN.

P-1 SHOPP LIST
ITEM NO.
34

PAGE 123

Exhibit P-5A

UNCLASSIFIED

| BUDGET ITEM JUSTIFICATION (EXHIBIT P-40) | | | | | | | DATE FEBRUARY 1998 | |
|--|---------|---------|----------------------------------|--------------|---|---------|------------------------------|---------|
| APPROPRIATION/BUDGET ACTIVITY PAAF/SMALL ARMS | | | | | P-1 ITEM NOMENCLATURE 9MM COMPACT PISTOL | | | |
| | FY 1996 | FY 1997 | FY 1998 | FY 1999 | FY 2000 | FY 2001 | FY 2002 | FY 2003 |
| QUANTITY | | 113 | 261 | 339 | 0 | 0 | 0 | 0 |
| COST (In Millions) | | \$0.073 | \$0.179 | \$0.232 | \$0 | \$0 | \$0 | \$0 |
| REMARKS | | | | | | | | |
| <p>1. THE 9MM COMPACT PISTOL IS A SEMI-AUTOMATIC, MAGAZINE-FED PISTOL USED AS A CONCEALABLE WEAPON AND CARRIED IN A HOLSTER BENEATH CIVILIAN CLOTHING BY THE AIR FORCE OFFICE OF SPECIAL INVESTIGATIONS (OSI) PERSONNEL. IT WILL REPLACE ALL COMPACT .45 CALIBER PISTOLS CURRENTLY USED BY THESE PERSONNEL. EVALUATIONS OF THE STANDARD 9MM PISTOL INDICATED IT IS TOO LARGE TO BE USED AS A CONCEALABLE WEAPON. THE COMPACT PISTOL WILL FUNCTION WITH THE SAME AMMUNITION AS THE FULL-SIZED 9MM PISTOL BUT ITS WEIGHT, LENGTH, HEIGHT, AND WIDTH WILL DIFFER.</p> <p>2 FY 98 AND 99 QUANTITIES DIFFER FROM P-1 ENTRIES DUE TO UPDATED COST ESTIMATES.</p> | | | | | | | | |
| | | | P-1 SHOPP LIST ITEM NO. 35 | PAGE NO. 126 | | | | |

UNCLASSIFIED

UNCLASSIFIED

| AMMUNITION COST ANALYSIS (DOLLARS IN THOUSANDS) | | | | | | | | | | | | | |
|--|---------------|------|-----------|-------|------|-----------|-------|------|-----------|------------------------|------|-----------|-------|
| APPROPRIATION AND P-1 LINE ITEM PAAF 9MM COMPACT PISTOL | | | | | | | | | | DATE: FEBRUARY 1998 | | | |
| ELEMENT OF COST | IDENT CODE | QTY: | | | FY97 | | | FY98 | | | FY99 | | |
| | | QTY | UNIT COST | TOTAL | QTY | UNIT COST | TOTAL | QTY | UNIT COST | TOTAL | QTY | UNIT COST | TOTAL |
| HARDWARE | | | | | | | | | | | | | |
| M9 PISTOL | A | | | | 113 | \$610.00 | \$69 | 261 | \$668.31 | \$174 | 339 | \$668.31 | \$226 |
| SUBTOTAL | | | | | | | \$69 | | | \$174 | | | \$226 |
| PRODUCTION SUPPORT | | | | | | | | | | | | | |
| ARMY ENGINEERING SUPPORT | | | | | | | \$2 | | | \$2 | | | \$2 |
| QUALITY ASSURANCE | | | | | | | \$2 | | | \$1 | | | \$1 |
| TEST AMMO | | | | | | | | | | \$2 | | | \$3 |
| SUBTOTAL | | | | | | | \$4 | | | \$5 | | | \$6 |
| TOTAL P1 LINE ITEM | | | | | 113 | \$646.01 | \$73 | 261 | \$684.24 | \$179 | 339 | \$684.24 | \$232 |

P-1 ITEM NO.
35

PAGE NO. 127

EXHIBIT P-5
PAGE 1 OF 1

UNCLASSIFIED

UNCLASSIFIED

BUDGET PROCUREMENT HISTORY PLANNING(P-5A)

A. DATE
FEBRUARY 1998

| B. APPROPRIATION/BUDGET ACTIVITY | | | | C. P-1 ITEM NOMENCLATURE | | | | | | |
|----------------------------------|-------------------------|------------------------------|---------------------------|--------------------------|------------------------------|----------|--------------|-----------------------|----------------------|--------------------------|
| PAAF/SMALL ARMS | | | | 9MM COMPACT PISTOL | | | | | | |
| LINE ITEM/ FISCAL YEAR | CONTRACTOR/ LOCATION | CONTRACT METHOD & TYPE | CONTRACTED BY | AWARD DATE | DATE OF FIRST DELIVERY | QUANTITY | UNIT COST | SPECS AVAIL NOW | SPEC REV REQ'D | IF YES, WHEN AVAIL |
| 9MM COMPACT PISTOL | | | | | | | | | | |
| FY 1997@ | SIGARMS | SS/FP (OPTION)* | ARMY/IOC (AFMC/WR-ALC) | DEC 96 | FEB 97 | 113 | 646.01 | | | |
| FY 1998@ # | SIGARMS | SS/FP | ARMY/IOC (AFMC/WR-ALC) | MAR 98 | OCT 98 | 261 | 684.24 | YES | NO | |
| FY 1999@ | SIGARMS | SS/FP | ARMY/IOC (AFMC/WR-ALC) | MAR 99 | OCT 99 | 339 | 684.24 | YES | NO | |

D. REMARKS

@ SIGARMS IS LOCATED IN EXETER, NH.
 * OPTION IS TO AN EXISTING FY 96 CONTRACT FOR NAVY REQUIREMENTS.
 # SOLE SOURCE JUSTIFICATION BASED ON NECESSITY TO KEEP ALL AF INVENTORY 9MM COMPACT PISTOLS STANDARD.

P-1 SHOPP LIST
ITEM NO.
35

PAGE 128

Exhibit P-5A

UNCLASSIFIED

| BUDGET ITEM JUSTIFICATION (EXHIBIT P-40) | | | | | | | DATE FEBRUARY 1998 | |
|---|---------|---------|----------------------------------|--------------|-------------------------------------|---------|------------------------------|---------|
| APPROPRIATION/BUDGET ACTIVITY PAAF/SMALL ARMS | | | | | P-1 ITEM NOMENCLATURE M-9 PISTOL | | | |
| | FY 1996 | FY 1997 | FY 1998 | FY 1999 | FY 2000 | FY 2001 | FY 2002 | FY 2003 |
| QUANTITY | | 0 | 2007 | 1578 | 0 | 0 | 0 | 0 |
| COST (In Millions) | | \$0 | \$.955 | \$.767 | \$0 | \$0 | \$0 | \$0 |
| REMARKS | | | | | | | | |
| <p>1. THE M-9 PISTOL IS A 9MM NATO, SEMI-AUTOMATIC PISTOL THAT NORMALLY FUNCTIONS SINGLE ACTION BUT HAS DOUBLE ACTION CAPABILITY FOR THE FIRST SHOT. THE WEAPON IS CAPABLE OF BEING FIRED BY EITHER LEFT OR RIGHT HANDED SHOOTERS. THE MAGAZINE HAS A MINIMUM OF 15 ROUNDS. THE PISTOL IS COMPATIBLE WITH PARTS AND AMMUNITION WITH ALLIED SERVICES.</p> <p>2. THE M-9 PISTOL IS A STANDARD REPLACEMENT WEAPON FOR THE .45 CALIBER PISTOL AND VARIOUS .38 CALIBER REVOLVERS. THE WEAPON IS ISSUED TO LAW ENFORCEMENT PERSONNEL, AVIATORS, AND GENERAL OFFICERS AS A PERSONAL DEFENSE WEAPON.</p> <p>3. FY98/99 QUANTITIES DIFFERFROM P-1 ENTRY DUE TO UPDATED COST ESTIMATES.</p> | | | | | | | | |
| | | | P-1 SHOPP LIST ITEM NO. 36 | PAGE NO. 131 | | | | |

UNCLASSIFIED

UNCLASSIFIED

AMMUNITION COST ANALYSIS (DOLLARS IN THOUSANDS)

| APPROPRIATION AND P-1 LINE ITEM | | | | | | | | | | | DATE: | | |
|---------------------------------|------------|-------------|-----------|--------------|----------------|-----------|--------------|----------------|-----------|-------------|---------------|-----------|-------|
| PAAF M-9 PISTOL | | | | | | | | | | | FEBRUARY 1998 | | |
| ELEMENT OF COST | IDENT CODE | FY97 QTY: 0 | | | FY98 QTY: 2007 | | | FY99 QTY: 1578 | | | QTY: | | |
| | | QTY | UNIT COST | TOTAL | QTY | UNIT COST | TOTAL | QTY | UNIT COST | TOTAL | QTY | UNIT COST | TOTAL |
| HARDWARE | | | | | | | | | | | | | |
| M-9 PISTOL | A | | | | 2007 | \$459.90 | \$923 | 1578 | \$470.02 | \$742 | | | |
| SUBTOTAL | | | | | | | \$923 | | | \$742 | | | |
| PRODUCTION SUPPORT | | | | | | | | | | | | | |
| ARMY ENGINEERING SUPPORT | | | | | | | \$12 | | | \$10 | | | |
| QUALITY ASSURANCE | | | | | | | \$3 | | | \$2 | | | |
| TEST/AMMO | | | | | | | \$17 | | | \$13 | | | |
| SUBTOTAL | | | | | | | \$32 | | | \$25 | | | |
| TOTAL P1 LINE ITEM | | | | | 2007 | \$475.65 | \$955 | 1578 | \$485.76 | \$767 | | | |
| | | | | P-1 ITEM NO. | | | PAGE NO. 132 | | | EXHIBIT P-5 | | | |
| | | | | 36 | | | | | | PAGE 1 OF 1 | | | |

UNCLASSIFIED

BUDGET PROCUREMENT HISTORY PLANNING(P-5A)

A. DATE
FEBRUARY 1998

| B. APPROPRIATION/BUDGET ACTIVITY | | | | C. P-1 ITEM NOMENCLATURE | | | | | | |
|----------------------------------|-------------------------|------------------------------|------------------------------|--------------------------|------------------------------|----------|--------------|-----------------------|----------------------|--------------------------|
| PAAF/SMALL ARMS | | | | M-9 PISTOL | | | | | | |
| LINE ITEM/ FISCAL YEAR | CONTRACTOR/ LOCATION | CONTRACT METHOD & TYPE | CONTRACTED BY | AWARD DATE | DATE OF FIRST DELIVERY | QUANTITY | UNIT COST | SPECS AVAIL NOW | SPEC REV REQ'D | IF YES, WHEN AVAIL |
| M-9 PISTOL | | | | | | | | | | |
| FY 1989 | BERETTA USA@ | SS/FP (OPTION) | ARMY/AMCCOM (AFMC/WR-ALC) | MAY 89 | AUG 93 | 9000 | 231.05 | | | |
| FY 1998# | BERETTA USA | SS/FP (OPTION) | ARMY/IOC (AFMC/WR-ALC) | FEB 98 | OCT 98 | 2007 | 475.65 | YES | NO | |
| FY 1999 | BERETTA USA | SS/FP | ARMY/IOC (AFMC/WA-ALC) | FEB 99 | OCT 99 | 1578 | 485.76 | YES | NO | |

D. REMARKS
 @ BERETTA USA CORP IS LOCATED IN ACCOKEEK, MD.
 # FY 98 CONTRACT IS PLANNED AS AN OPTION TO AN EXISTING FY 95 ARMY CONTRACT. PRICE IS BASED ON ESTIMATE FROM HQ ACALA MAY 97.

UNCLASSIFIED

| BUDGET ITEM JUSTIFICATION (EXHIBIT P-40) | | | | | | | DATE FEBRUARY 1998 | |
|--|---------|---------|----------------------------------|--------------|---|-------------|-----------------------|---------|
| APPROPRIATION/BUDGET ACTIVITY PAAF/SMALL ARMS | | | | | P-1 ITEM NOMENCLATURE ITEMS LESS THAN \$2,000,000 (SMALL ARMS) | | | |
| | FY 1996 | FY 1997 | FY 1998 | FY 1999 | FY 2000 | FY 2001 | FY 2002 | FY 2003 |
| QUANTITY | | | | | | | | |
| COST (In Millions) | | \$0.607 | \$0.839 | \$0.117 | \$0 | \$0 | \$0 | \$0 |
| REMARKS | | | | | | | | |
| 1. THIS CATEGORY CONSISTS OF VARIOUS WEAPONS ITEMS USED FOR BASE DEFENSE AND GROUND CREW TRAINING. | | | | | | | | |
| 2. ITEMS FOR FY 99 PROCUREMENT ARE LISTED BELOW. | | | | | | | | |
| NOMENCLATURE | | | | | QTY | \$THOUSANDS | | |
| AIMING CIRCLE, M2A2 | | | | | 16 | 33 | | |
| RIFLE MOUNT | | | | | 104 | 84 | | |
| TOTAL | | | | | | 117 | | |
| | | | P-1 SHOPP LIST ITEM NO. 37 | PAGE NO. 135 | | | | |

UNCLASSIFIED