

DEPARTMENT OF THE ARMY

Procurement Programs



Committee Staff Procurement Backup Book
Fiscal Year 2010 Budget Estimates

AIRCRAFT PROCUREMENT, ARMY

APPROPRIATION

May 2009

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APPROPRIATION Aircraft Procurement, Army

| | | Dollars in Thousands | | | | |
|-------------------------------------|------------------|----------------------|------------------|------------------|------------------|--|
| | | FY 2010 | | | | |
| <u>ACTIVITY</u> | <u>FY 2008</u> | <u>FY 2009</u> | <u>Base</u> | <u>OCO</u> | <u>Total</u> | |
| 01 Aircraft | 1,940,993 | 2,468,154 | 3,269,098 | 555,180 | 3,824,278 | |
| 02 Modification of aircraft | 2,882,937 | 2,305,555 | 1,589,782 | 902,745 | 2,492,527 | |
| 03 Spares and repair parts | 9,241 | 6,855 | 7,083 | 18,200 | 25,283 | |
| 04 Support equipment and facilities | 1,122,012 | 952,423 | 450,028 | 160,104 | 610,132 | |
| APPROPRIATION TOTALS | 5,955,183 | 5,732,987 | 5,315,991 | 1,636,229 | 6,952,220 | |

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APPROPRIATION Aircraft Procurement, Army ACTIVITY 01 Aircraft

FY 2009 Dollars in Thousands

| LINE NO | ITEM NOMENCLATURE | FY 2008 | | FY 2009 | | FY 2010 | | | | | |
|---------|--|---------|-----|---------|-----|---------|-----------|-----|-----------|-----|-----------|
| | | ID | QTY | COST | QTY | COST | Base | OCO | Total | | |
| | | | | | | QTY | COST | QTY | COST | QTY | COST |
| | <i>FIXED WING</i> | | | | | | | | | | |
| 1 | JOINT CARGO AIRCRAFT (JCA) (A11000) | | 4 | 155,982 | 7 | | 263,381 | | | | |
| 2 | UTILITY F/W AIRCRAFT (A11300) | | | 11,911 | | | | | | | |
| 3 | MQ1 (SKY WARRIOR - ERMP) (A00005) | | | | | 24 | 401,364 | 12 | 250,000 | 36 | 651,364 |
| 4 | RQ-11 (RAVEN) (A00010) | | | | | 618 | 35,008 | 258 | 44,640 | 876 | 79,648 |
| 5 | RQ-7 (SHADOW) (A00015) | | | | | | | | | | |
| | C-12 CARGO AIRPLANE (A02700) | | | | | | | 6 | 45,000 | 6 | 45,000 |
| | <i>SUB-ACTIVITY TOTAL</i> | | | 167,893 | | | 263,381 | | 436,372 | | 339,640 |
| | <i>ROTARY</i> | | | | | | | | | | |
| 6 | ARMED RECON HELICOPTER (A04203) | | | | | | (197,129) | | (43,810) | | (43,810) |
| | Less: Adv Proc | | | | | | | | (-43,810) | | (-43,810) |
| | | | | | | | 197,129 | | | | 0 |
| 7 | ARMED RECON HELICOPTER (A04203) | | | | | | | | | | |
| | Adv Proc | | | | | | | | | | 0 |
| 8 | HELICOPTER, LIGHT UTILITY (LUH) (A05001) | | 42 | 228,933 | 44 | | 256,360 | 54 | 326,040 | 54 | 326,040 |
| 9 | AH-64 APACHE BLOCK III (A05111) | | | | | | | 8 | (161,280) | 8 | (161,280) |
| | Less: Adv Proc | | | | | | | | | | 0 |
| | | | | | | | | | 161,280 | | 161,280 |
| 10 | AH-64 APACHE BLOCK III (A05111) | | | | | | | | | | |
| | Adv Proc | | | | | | | | 57,890 | | 57,890 |

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APPROPRIATION Aircraft Procurement, Army ACTIVITY 01 Aircraft

FY 2009 Dollars in Thousands

| LINE NO | ITEM NOMENCLATURE | FY 2008 | | FY 2009 | | Base | | FY 2010 | | Total | | | | | | |
|---------|----------------------------------|---------|-----|-------------------|-----|------|-------------------|---------|-----|-------------------|-----|------|----------------|----|--|-------------------|
| | | ID | QTY | COST | QTY | COST | QTY | COST | QTY | COST | QTY | COST | | | | |
| 11 | UH-60 BLACKHAWK (MYP) (AA0005) | 77 | | (1,421,620) | 68 | | (1,122,914) | 79 | | (1,392,914) | 4 | | (74,340) | 83 | | (1,467,254) |
| | Less: Adv Proc | | | <u>(-183,009)</u> | | | <u>(-116,795)</u> | | | <u>(-134,540)</u> | | | | | | <u>(-134,540)</u> |
| | | | | 1,238,611 | | | 1,006,119 | | | 1,258,374 | | | 74,340 | | | 1,332,714 |
| 12 | UH-60 BLACKHAWK (MYP) (AA0005) | | | | | | | | | | | | | | | |
| | Adv Proc | | | 115,956 | | | 136,770 | | | 98,740 | | | | | | 98,740 |
| 13 | CH-47 HELICOPTER (A05101) \1 | 6 | | (156,841) | 27 | | (594,970) | 35 | | (860,087) | 4 | | (141,200) | 39 | | (1,001,287) |
| | Less: Adv Proc | | | <u>156,841</u> | | | <u>(-32,759)</u> | | | <u>860,087</u> | | | <u>141,200</u> | | | <u>1,001,287</u> |
| 14 | CH-47 HELICOPTER (A05101) | | | | | | | | | | | | | | | |
| | Adv Proc | | | 32,759 | | | | | | 50,676 | | | | | | 50,676 |
| 15 | HELICOPTER NEW TRAINING (A06500) | | | | | | 2,374 | | | 19,639 | | | | | | 19,639 |
| | SUB-ACTIVITY TOTAL | | | <u>1,773,100</u> | | | <u>2,204,773</u> | | | <u>2,832,726</u> | | | <u>215,540</u> | | | <u>3,048,266</u> |
| | ACTIVITY TOTAL | | | <u>1,940,993</u> | | | <u>2,468,154</u> | | | <u>3,269,098</u> | | | <u>555,180</u> | | | <u>3,824,278</u> |

\1 A program review conducted subsequent to the data base lock indicated funding supports 20 ea in FY 09. However, there is no quantity discrepancy in FY09. These P Forms do not reflect an approved reprogramming (09-07PA). Additionally the review indicated current funding supports 31 ea in FY 10. This revised program does not provide for a multiyear contract. Revised quantities are shown on these P-Forms. Once the FY 10 program has \$22 million either realigned or reprogrammed from the CH-47 modification line into the CH-47 procurement line, the multiyear contract will be restored.

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APPROPRIATION Aircraft Procurement, Army ACTIVITY 02 Modification of aircraft

FY 2009 Dollars in Thousands

| LINE NO | ITEM NOMENCLATURE | FY 2008 | | FY 2009 | | FY 2010 | | | | | | | |
|----------------------------------|---------------------------------------|---------|-----|------------------|-----|------------------|------|-----|------------------|-----|-----------|-----|------------------|
| | | ID | QTY | COST | QTY | COST | Base | | OCO | | Total | | |
| | | | | | | | | QTY | COST | QTY | COST | QTY | COST |
| <i>MODIFICATIONS OF AIRCRAFT</i> | | | | | | | | | | | | | |
| 16 | PAYLOAD - UAS (A00020) | | | | | | | | 87,424 | | | | 87,424 |
| 17 | WEAPONIZATION - UAS (A00025) | | | | | | | | 14,832 | | | | 14,832 |
| 18 | GUARDRAIL MODS (MIP) (AZ2000) | | | 178,464 | | 147,737 | | | 61,517 | | 50,210 | | 111,727 |
| 19 | MULTI SENSOR ABN RECON (MIP) (AZ2001) | | | 236,315 | | 23,228 | | | 21,457 | | 54,000 | | 75,457 |
| 20 | AH-64 MODS (AA6605) | 3 | | (855,915) | 12 | (1,013,910) | | | (455,701) | 4 | (315,300) | | (771,001) |
| | Less: Adv Proc | | | <u>(-38,923)</u> | | <u>(-51,380)</u> | | | <u>(-29,286)</u> | | | | <u>(-29,286)</u> |
| | | | | 816,992 | | 962,530 | | | 426,415 | | 315,300 | | 741,715 |
| 21 | AH-64 MODS (AA6605) | | | | | | | | | | | | |
| | Adv Proc | | | 51,380 | | 29,286 | | | | | | | |
| 22 | CH-47 CARGO HELIC MODS (AA0252) | 41 | | (1,194,387) | 23 | (717,684) | | | (152,349) | | | | (152,349) |
| | Less: Adv Proc | | | <u>(-36,592)</u> | | <u>(-38,917)</u> | | | <u>(-49,473)</u> | | | | <u>(-49,473)</u> |
| | | | | 1,157,795 | | 678,767 | | | 102,876 | | | | 102,876 |
| 23 | CH-47 CARGO HELIC MODS (AA0252) | | | | | | | | | | | | |
| | Adv Proc | | | 38,917 | | 49,473 | | | | | | | |
| 24 | UTILITY/CARGO AIRPLANE MODS (AA0270) | | | 20,156 | | 16,472 | | | 39,547 | | | | 39,547 |
| 25 | AIRCRAFT LONG RANGE MODS (AA0560) | | | 638 | | 575 | | | 823 | | | | 823 |
| 26 | UTILITY HELICOPTER MODS (AA0480) | | | 65,893 | | 26,986 | | | 66,682 | | 2,500 | | 69,182 |

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APPROPRIATION Aircraft Procurement, Army ACTIVITY 02 Modification of aircraft

FY 2009 Dollars in Thousands

| LINE NO | ITEM NOMENCLATURE | FY 2008 | | FY 2009 | | FY 2010 | | | | | | | |
|---------|-----------------------------|---------|-----|------------------|-----|------------------|------|-----|------------------|-----|----------------|---|------------------|
| | | ID | QTY | COST | QTY | COST | Base | | OCO | | Total | | |
| | | | | | | | | QTY | COST | QTY | COST | | |
| 27 | KIOWA WARRIOR (AZ2200) | | | 88,843 | | 117,050 | | | 140,768 | 6 | 94,335 | 6 | 235,103 |
| 28 | AIRBORNE AVIONICS (AA0700) | | | 169,107 | | 174,462 | | | 241,287 | | | | 241,287 |
| 29 | GATM Rollup (AA0711) | | | 58,437 | | 78,989 | | | 103,142 | | | | 103,142 |
| | RQ-7 UAS MODS (A00018) | | | | | | | | 283,012 | | 326,400 | | 609,412 |
| | C-12 AIRCRAFT MODS (A01234) | | | | | | | | | | 60,000 | | 60,000 |
| | <i>SUB-ACTIVITY TOTAL</i> | | | 2,882,937 | | 2,305,555 | | | 1,589,782 | | 902,745 | | 2,492,527 |
| | ACTIVITY TOTAL | | | <u>2,882,937</u> | | <u>2,305,555</u> | | | <u>1,589,782</u> | | <u>902,745</u> | | <u>2,492,527</u> |

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APPROPRIATION Aircraft Procurement, Army ACTIVITY 03 Spares and repair parts

FY 2009 Dollars in Thousands

| LINE NO | ITEM NOMENCLATURE | FY 2008 | | FY 2009 | | FY 2010 | | | | | | |
|---------|--------------------------------|---------|-----|--------------|-----|--------------|------|--------------|-----|---------------|-------|---------------|
| | | ID | QTY | COST | QTY | COST | Base | | OCO | | Total | |
| | | | | | | | QTY | COST | QTY | COST | QTY | COST |
| | <i>SPARES AND REPAIR PARTS</i> | | | | | | | | | | | |
| 30 | SPARE PARTS (AIR) (AA0950) | | | 9,241 | | 6,855 | | 7,083 | | 18,200 | | 25,283 |
| | <i>SUB-ACTIVITY TOTAL</i> | | | 9,241 | | 6,855 | | 7,083 | | 18,200 | | 25,283 |
| | ACTIVITY TOTAL | | | 9,241 | | 6,855 | | 7,083 | | 18,200 | | 25,283 |

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APPROPRIATION Aircraft Procurement, Army ACTIVITY 04 Support equipment and facilities

FY 2009 Dollars in Thousands

| LINE NO | ITEM NOMENCLATURE | ID | FY 2008 | | FY 2009 | | Base | | OCO | | Total | |
|--------------------------------|-------------------------------------|----|---------|-------------------------|---------|-----------------------|------|-----------------------|-----|-----------------------|-------|-----------------------|
| | | | QTY | COST | QTY | COST | QTY | COST | QTY | COST | QTY | COST |
| <i>GROUND SUPPORT AVIONICS</i> | | | | | | | | | | | | |
| 31 | AIRCRAFT SURVIVABILITY EQ (AZ3504) | | | 47,795 | | 56,738 | | 25,975 | | | | 25,975 |
| 32 | ASE INFRARED CM (AZ3507) | | | 814,327 | | 585,461 | | 186,356 | | 111,600 | | 297,956 |
| | <i>SUB-ACTIVITY TOTAL</i> | | | <u>862,122</u> | | <u>642,199</u> | | <u>212,331</u> | | <u>111,600</u> | | <u>323,931</u> |
| <i>OTHER SUPPORT</i> | | | | | | | | | | | | |
| 33 | AVIONICS SUPPORT EQUIP (AZ3000) | | | 5,031 | | 5,013 | | 4,933 | | | | 4,933 |
| 34 | COMMON GROUND EQUIP (AZ3100) | | | 85,041 | | 108,576 | | 87,682 | | 23,704 | | 111,386 |
| 35 | AIRCREW INTEGRATED SYS (AZ3110) | | | 54,222 | | 48,149 | | 52,725 | | 24,800 | | 77,525 |
| 36 | AIR TRAFFIC CONTROL (AA0050) \2 | | | 110,875 | | 122,413 | | 76,999 | | | | 76,999 |
| 37 | INDUSTRIAL FACILITIES (AZ3300) | | | 2,361 | | 2,529 | | 1,533 | | | | 1,533 |
| 38 | LAUNCHER, 2.75 ROCKET (A50100) | | | 2,360 | | 2,435 | | 2,716 | | | | 2,716 |
| 39 | AIRBORNE COMMUNICATIONS (AA0705) \2 | | | | | 21,109 | | 11,109 | | | | 11,109 |
| | <i>SUB-ACTIVITY TOTAL</i> | | | <u>259,890</u> | | <u>310,224</u> | | <u>237,697</u> | | <u>48,504</u> | | <u>286,201</u> |
| | ACTIVITY TOTAL | | | <u>1,122,012</u> | | <u>952,423</u> | | <u>450,028</u> | | <u>160,104</u> | | <u>610,132</u> |
| | APPOPRIATION TOTAL | | | 5,955,183 | | 5,732,987 | | 5,315,991 | | 1,636,229 | | 6,952,220 |

\2 FY 09 Funding for these two programs above is correct, but differs from other versions of the P1 Exhibit.

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| A05111 | 10 | 3 | AH-64 APACHE BLOCK III (A05111) |
| AA6605 | 20 | 5 | AH-64 MODS (AA6605) |
| AA6605 | 21 | 5 | AH-64 MODS (AA6605) |
| AA0050 | 36 | 7 | AIR TRAFFIC CONTROL (AA0050) |
| AA0700 | 28 | 6 | AIRBORNE AVIONICS (AA0700) |
| AA0705 | 39 | 7 | AIRBORNE COMMUNICATIONS (AA0705) |
| AA0560 | 25 | 5 | AIRCRAFT LONG RANGE MODS (AA0560) |
| AZ3504 | 31 | 7 | AIRCRAFT SURVIVABILITY EQUIPMENT (AZ3504) |
| AZ3110 | 35 | 7 | AIRCREW INTEGRATED SYSTEMS (AZ3110) |
| A04203 | 6 | 3 | ARMED RECONNAISSANCE HELICOPTER (A04203) |
| A04203 | 7 | 3 | ARMED RECONNAISSANCE HELICOPTER (A04203) |
| AZ3507 | 32 | 7 | ASE INFRARED CM (AZ3507) |
| AZ3000 | 33 | 7 | AVIONICS SUPPORT EQUIPMENT (AZ3000) |
| A01234 | | 5 | C-12 AIRCRAFT MODS (A01234) |
| A02700 | | 3 | C-12 CARGO AIRPLANE (A02700) |
| AA0252 | 22 | 5 | CH-47 CARGO HELICOPTER MODS (MYP) (AA0252) |
| AA0252 | 23 | 5 | CH-47 CARGO HELICOPTER MODS (MYP) (AA0252) |
| A05101 | 13 | 4 | CH-47 HELICOPTER (A05101) |
| A05101 | 14 | 4 | CH-47 HELICOPTER (A05101) |
| AZ3100 | 34 | 7 | COMMON GROUND EQUIPMENT (AZ3100) |
| AA0711 | 29 | 6 | GATM Rollup (AA0711) |
| AZ2000 | 18 | 5 | GUARDRAIL MODS (MIP) (AZ2000) |
| A06500 | 15 | 4 | HELICOPTER NEW TRAINING (A06500) |
| A05001 | 8 | 3 | HELICOPTER, LIGHT UTILITY (LUH) (A05001) |
| AZ3300 | 37 | 7 | INDUSTRIAL FACILITIES (AZ3300) |
| A11000 | 1 | 3 | JOINT CARGO AIRCRAFT (JCA) (A11000) |
| AZ2200 | 27 | 6 | KIOWA WARRIOR (AZ2200) |
| A50100 | 38 | 7 | LAUNCHER, 2.75 ROCKET (A50100) |
| A04203 | 6 | 3 | Less: Advance Procurement (PY) |
| A05111 | 9 | 3 | Less: Advance Procurement (PY) |
| AA0005 | 11 | 4 | Less: Advance Procurement (PY) |
| A05101 | 13 | 4 | Less: Advance Procurement (PY) |
| AA6605 | 20 | 5 | Less: Advance Procurement (PY) |

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| A00005 | 3 | 3 | MQ1 (SKY WARRIOR - ERMP) (A00005) |
| A00010 | 4 | 3 | RQ-11 (RAVEN) (A00010) |
| A00015 | 5 | 3 | RQ-7 (SHADOW) (A00015) |
| A00018 | | 6 | RQ-7 UAS MODS (A00018) |
| AA0005 | 11 | 4 | UH-60 BLACKHAWK (MYP) (AA0005) |
| AA0005 | 12 | 4 | UH-60 BLACKHAWK (MYP) (AA0005) |
| A00020 | 16 | 5 | PAYLOAD - UAS (A00020) |
| A00025 | 17 | 5 | WEAPONIZATION - UAS (A00025) |
| AZ2001 | 19 | 5 | MULTI SENSOR ABN RECON (MIP) (AZ2001) |
| AA0252 | 22 | 5 | Less: Advance Procurement (PY) |
| AA0270 | 24 | 5 | UTILITY/CARGO AIRPLANE MODS (AA0270) |
| AA0480 | 26 | 5 | UTILITY HELICOPTER MODS (AA0480) |
| AA0950 | 30 | 7 | SPARE PARTS (AIR) (AA0950) |

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| A00010 | 4 | 3 | RQ-11 (RAVEN) (A00010) |
| A00015 | 5 | 3 | RQ-7 (SHADOW) (A00015) |
| A00018 | | 6 | RQ-7 UAS MODS (A00018) |
| A00020 | 16 | 5 | PAYLOAD - UAS (A00020) |
| A00025 | 17 | 5 | WEAPONIZATION - UAS (A00025) |
| A01234 | | 5 | C-12 AIRCRAFT MODS (A01234) |
| A02700 | | 3 | C-12 CARGO AIRPLANE (A02700) |
| A04203 | 6 | 3 | ARMED RECONNAISSANCE HELICOPTER (A04203) |
| A04203 | 7 | 3 | ARMED RECONNAISSANCE HELICOPTER (A04203) |
| A04203 | 6 | 3 | Less: Advance Procurement (PY) |
| A05001 | 8 | 3 | HELICOPTER, LIGHT UTILITY (LUH) (A05001) |
| A05101 | 13 | 4 | CH-47 HELICOPTER (A05101) |
| A05101 | 14 | 4 | CH-47 HELICOPTER (A05101) |
| A05101 | 13 | 4 | Less: Advance Procurement (PY) |
| A05111 | 9 | 3 | AH-64 APACHE BLOCK III (A05111) |
| A05111 | 10 | 3 | AH-64 APACHE BLOCK III (A05111) |
| A05111 | 9 | 3 | Less: Advance Procurement (PY) |
| A06500 | 15 | 4 | HELICOPTER NEW TRAINING (A06500) |
| A11000 | 1 | 3 | JOINT CARGO AIRCRAFT (JCA) (A11000) |
| A11300 | 2 | 3 | UTILITY F/W AIRCRAFT (A11300) |
| A50100 | 38 | 7 | LAUNCHER, 2.75 ROCKET (A50100) |
| AA0005 | 11 | 4 | Less: Advance Procurement (PY) |
| AA0005 | 11 | 4 | UH-60 BLACKHAWK (MYP) (AA0005) |
| AA0005 | 12 | 4 | UH-60 BLACKHAWK (MYP) (AA0005) |
| AA0050 | 36 | 7 | AIR TRAFFIC CONTROL (AA0050) |
| AA0252 | 22 | 5 | CH-47 CARGO HELICOPTER MODS (MYP) (AA0252) |
| AA0252 | 23 | 5 | CH-47 CARGO HELICOPTER MODS (MYP) (AA0252) |
| AA0252 | 22 | 5 | Less: Advance Procurement (PY) |
| AA0270 | 24 | 5 | UTILITY/CARGO AIRPLANE MODS (AA0270) |
| AA0480 | 26 | 5 | UTILITY HELICOPTER MODS (AA0480) |
| AA0560 | 25 | 5 | AIRCRAFT LONG RANGE MODS (AA0560) |
| AA0700 | 28 | 6 | AIRBORNE AVIONICS (AA0700) |
| AA0705 | 39 | 7 | AIRBORNE COMMUNICATIONS (AA0705) |

*** UNCLASSIFIED ***

EXHIBIT P-1
Page 11 of 12

*** UNCLASSIFIED ***
DEPARTMENT OF THE ARMY
FY 2010 Budget Submission

EXHIBIT P-1
DATE: Apr-10

SSN INDEX

| SSN | LINE | PAGE | NOMENCLATURE |
|--------|------|------|---|
| AA0711 | 29 | 6 | GATM Rollup (AA0711) |
| AA0950 | 30 | 7 | SPARE PARTS (AIR) (AA0950) |
| AA6605 | 20 | 5 | AH-64 MODS (AA6605) |
| AA6605 | 21 | 5 | AH-64 MODS (AA6605) |
| AA6605 | 20 | 5 | Less: Advance Procurement (PY) |
| AZ2000 | 18 | 5 | GUARDRAIL MODS (MIP) (AZ2000) |
| AZ2001 | 19 | 5 | MULTI SENSOR ABN RECON (MIP) (AZ2001) |
| AZ2200 | 27 | 6 | KIOWA WARRIOR (AZ2200) |
| AZ3000 | 33 | 7 | AVIONICS SUPPORT EQUIPMENT (AZ3000) |
| AZ3100 | 34 | 7 | COMMON GROUND EQUIPMENT (AZ3100) |
| AZ3110 | 35 | 7 | AIRCREW INTEGRATED SYSTEMS (AZ3110) |
| AZ3300 | 37 | 7 | INDUSTRIAL FACILITIES (AZ3300) |
| AZ3504 | 31 | 7 | AIRCRAFT SURVIVABILITY EQUIPMENT (AZ3504) |
| AZ3507 | 32 | 7 | ASE INFRARED CM (AZ3507) |

*** UNCLASSIFIED ***

EXHIBIT P-1
Page 12 of 12

Exhibit P-40, Budget Item Justification Sheet

Date: May 2009

Appropriation / Budget Activity / Serial No:
Aircraft Procurement, Army / 1 / Aircraft

P-1 Item Nomenclature
JOINT CARGO AIRCRAFT (JCA) (A11000)

Program Elements for Code B Items:

Code:

Other Related Program Elements:
273744/D18

| | Prior Years | FY 2008 | FY 2009 | FY 2010 | To Complete | Total Prog |
|------------------------|-------------|---------|---------|---------|-------------|------------|
| Proc Qty | 2 | 4 | 7 | | | 13 |
| Gross Cost | 76.7 | 156.0 | 263.4 | | | 496.1 |
| Less PY Adv Proc | | | | | | |
| Plus CY Adv Proc | | | | | | |
| Net Proc P1 | 76.7 | 156.0 | 263.4 | | | 496.1 |
| Initial Spares | | | | | | |
| Total Proc Cost | 76.7 | 156.0 | 263.4 | | | 496.1 |
| Flyaway U/C | | | | | | |
| Weapon System Proc U/C | 38.4 | 39.0 | 37.6 | | | 115.0 |

Description:

The Joint Cargo Aircraft (JCA) program was established to correct operational shortfalls to cargo mission requirements, provide commonality with other aviation platforms, and replace multiple retiring aircraft systems. This aircraft addresses these shortfalls, and replaces retiring C-23s, and selected C-12s. A cargo aircraft is ideally suited to move time-sensitive, mission-critical supply parts, equipment and personnel over extended distances. The JCA will have a payload interoperability with the C-130 aircraft and the CH-47F. This requires a payload capability of at least 6,000 pounds (lbs) of cargo allowing trans-loading to a CH-47F and fully supporting the Brigade Combat Team (BCT) missions. The aircraft must be capable of transporting, as a minimum, three 463L pallets. The JCA will bypass unsecured lines of communication and deliver routine sustainment items directly to forward supply bases. The JCA will have a robust takeoff and landing capability and be able to operate into and out of unimproved landing areas. The dimensions of the Future Force joint tactical area or the operational area of the ground force commander will severely limit the usefulness of rotary wing aircraft in re-supply missions. The distances are too great for effective use of helicopters. The JCA, with its extended range and speed, will meet time sensitive mission critical needs of the Future Force. The JCA will easily cover these distances and free the rotary-wing fleet for their primary tactical missions. The JCA will provide a multi-mission, multi-functional platform for the commanders use in accomplishing the mission.

Justification:

Army has already awarded FY 2009 Contract and will continue to manage this award. Begining in FY 2010, mission has been transferred to the Air Force; therefore, there is no FY 2010 Request.

| \$ M | | FY2008 | FY2009 | FY2010 |
|----------|------------|--------|--------|--------|
| Active | QTY | | | |
| | Gross Cost | | 5 | |
| National | QTY | 4 | 7 | |
| Guard | Gross Cost | 156 | 259 | |

| Exhibit P-5, Weapon ACFT Cost Analysis | | Appropriation/Budget Activity/Serial No: Aircraft Procurement, Army / 1 / Aircraft | | | P-1 Line Item Nomenclature: JOINT CARGO AIRCRAFT (JCA) (A11000) | | | Weapon System Type: | | Date: May 2009 | |
|---|--|---|---------------|------|--|---------------|------|---------------------|------------|-------------------|-----------|
| ACFT Cost Elements | | ID CD | FY 08 | | | FY 09 | | | FY 10 | | |
| | | | Total Cost | Qty | Unit Cost | Total Cost | Qty | Unit Cost | Total Cost | Qty | Unit Cost |
| | | | \$000 | Each | \$000 | \$000 | Each | \$000 | \$000 | Each | \$000 |
| Joint Cargo Aircraft | | | | | | | | | | | |
| Hardware | | | 120191 | 4 | 30048 | 220230 | 7 | 31461 | | | |
| Engineering Support | | | | | | 1162 | | | | | |
| Support Equipment | | | 6385 | | | 171 | | | | | |
| Interim Contractor Support & Training | | | 21649 | | | 33650 | | | | | |
| Program Office Management | | | 7757 | | | 8168 | | | | | |
| Total: | | | 155982 | | | 263381 | | | | | |

Exhibit P-5a, Budget Procurement History and Planning

Date:
May 2009

| | | | | | | | | | | |
|---|---|--------------------------|----------------------|--|------------------------|-----------|-----------------|------------------|------------------|----------------|
| Appropriation/Budget Activity/Serial No: Aircraft Procurement, Army/ 1/ Aircraft | | Weapon System Type: | | P-1 Line Item Nomenclature: JOINT CARGO AIRCRAFT (JCA) (A11000) | | | | | | |
| WBS Cost Elements: | Contractor and Location | Contract Method and Type | Location of PCO | Award Date | Date of First Delivery | QTY Units | Unit Cost \$000 | Specs Avail Now? | Date Revsn Avail | RFP Issue Date |
| Hardware | | | | | | | | | | |
| FY 2008 | L-3 Comm Integ Sys Greenville, Texas | C/FFP/REQ | Redstone Arsenal, AL | Apr 08 | Jan 10 | 4 | 30048 | YES | | MAR 06 |
| FY 2009 | L-3 Comm Integ Sys Greenville, Texas | C/FFP/REQ | Redstone Arsenal, AL | Jan 09 | Jan 11 | 7 | 31461 | YES | | MAR 06 |

REMARKS: Army has already awarded FY 2009 Contract and will continue to manage this award. Beginning in FY 2010, mission has been transferred to the Air Force; therefore, there is no FY 2010 Request.

FY 09 / 10 BUDGET PRODUCTION SCHEDULE

P-1 ITEM NOMENCLATURE
JOINT CARGO AIRCRAFT (JCA) (A11000)

Date: May 2009

COST ELEMENTS

Fiscal Year 09

Fiscal Year 10

| MFR | FY | SERV | PROC QTY Units | ACCEP PRIOR TO 1 OCT | BAL DUE AS OF 1 OCT | Calendar Year 09 | | | | | | | | | | | | Calendar Year 10 | | | | | | | | | | | | Later |
|-----|----|------|----------------|----------------------|---------------------|------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-------|
| | | | | | | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | |

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------|-------|---|---|---|---|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--|--|--|--|--|--|--|
| Hardware | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | FY 08 | A | 4 | 0 | 4 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | FY 09 | A | 7 | 0 | 7 | | | | A | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Total | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | | | | | | | |

| MFR | Name - Location | PRODUCTION RATES | | | Reached D+ | MFR | ADMIN LEAD TIME | | MFR After 1 Oct | TOTAL After 1 Oct | REMARKS |
|-----|-----------------|------------------|---------------------------------------|-----|------------|---------|-----------------|-------------|-----------------|-------------------|---------|
| | | MIN | 1-8-5 | MAX | | | Prior 1 Oct | After 1 Oct | | | |
| | | 1 | L-3 Comm Integ Sys, Greenville, Texas | 1 | | | 11 | 11 | 1 | Initial | |
| | | | | | | Reorder | 0 | 4 | 23 | 27 | |
| | | | | | | Initial | | | | | |
| | | | | | | Reorder | | | | | |
| | | | | | | Initial | | | | | |
| | | | | | | Reorder | | | | | |
| | | | | | | Initial | | | | | |
| | | | | | | Reorder | | | | | |
| | | | | | | Initial | | | | | |
| | | | | | | Reorder | | | | | |

| | | |
|--|--|-------------------|
| FY 11 / 12 BUDGET PRODUCTION SCHEDULE | P-1 ITEM NOMENCLATURE JOINT CARGO AIRCRAFT (JCA) (A11000) | Date: May 2009 |
|--|--|-------------------|

| COST ELEMENTS | | | | | | Fiscal Year 11 | | | | | | | | | | | | Fiscal Year 12 | | | | | | | | | | | | Later |
|---------------|-------|------------------|----------------------|-------------------------------|------------------------------|------------------|---|---|---|---|---|---|---|---|---|---|---|------------------|---|---|---|---|---|---|---|---|---|---|---|-------|
| M F R | FY | S E R V | PROC QTY Units | ACCEP PRIOR TO 1 OCT | BAL DUE AS OF 1 OCT | Calendar Year 11 | | | | | | | | | | | | Calendar Year 12 | | | | | | | | | | | | |
| | | | | | | O | N | D | J | F | M | A | M | J | J | A | S | O | N | D | J | F | M | A | M | J | J | A | S | |
| | | | | | | C | V | C | A | E | A | P | A | U | U | U | E | C | V | C | A | E | A | P | A | U | U | U | E | |
| Hardware | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | FY 08 | A | 4 | 3 | 1 | 1 | | | | | | | | | | | | | | | | | | | | | | 0 | | |
| 1 | FY 09 | A | 7 | 0 | 7 | | | | 1 | | | 1 | 1 | | 1 | 1 | | | 1 | 1 | | | | | | | | 0 | | |
| Total | | | | | | 8 | 1 | | | 1 | | | 1 | 1 | | | 1 | 1 | | | 1 | 1 | | | | | | | | |
| | | | | | | O | N | D | J | F | M | A | M | J | J | A | S | O | N | D | J | F | M | A | M | J | J | A | S | |
| | | | | | | C | V | C | A | E | A | P | A | U | U | U | E | C | V | C | A | E | A | P | A | U | U | U | E | P |

| M F R | Name - Location | PRODUCTION RATES | | | Reached D+ | MFR | ADMIN LEAD TIME | | MFR After 1 Oct | TOTAL After 1 Oct | REMARKS |
|-------------|---------------------------------------|------------------|-------|-----|---------------|---------|-----------------|-------------|--------------------|----------------------|---------|
| | | MIN | 1-8-5 | MAX | | | Prior 1 Oct | After 1 Oct | | | |
| 1 | L-3 Comm Integ Sys, Greenville, Texas | 1 | 11 | 11 | 1 | Initial | 0 | 9 | 15 | 24 | |
| | | | | | | Reorder | 0 | 4 | 23 | 27 | |
| | | | | | | Initial | | | | | |
| | | | | | | Reorder | | | | | |
| | | | | | | Initial | | | | | |
| | | | | | | Reorder | | | | | |
| | | | | | | Initial | | | | | |
| | | | | | | Reorder | | | | | |

| | | | | | | |
|--|-------------|---------|---|--|-------------|----------------|
| Exhibit P-40, Budget Item Justification Sheet | | | | | | Date: May 2009 |
| Appropriation / Budget Activity / Serial No: Aircraft Procurement, Army / 1 / Aircraft | | | | P-1 Item Nomenclature MQ1 (SKY WARRIOR - ERMP) (A00005) | | |
| Program Elements for Code B Items: | | Code: | Other Related Program Elements: 357204 RDT&E, B00305 - OPA | | | |
| | Prior Years | FY 2008 | FY 2009 | FY 2010 | To Complete | Total Prog |
| Proc Qty | | | | 36 | | 36 |
| Gross Cost | | | | 651.4 | | 651.4 |
| Less PY Adv Proc | | | | | | |
| Plus CY Adv Proc | | | | | | |
| Net Proc P1 | | | | 651.4 | | 651.4 |
| Initial Spares | | | | | | |
| Total Proc Cost | | | | 651.4 | | 651.4 |
| Flyaway U/C | | | | | | |
| Weapon System Proc U/C | | | | 18.1 | | 18.1 |
| Description: The Extended Range Multi-Purpose (ER/MP) Unmanned Aircraft System (UAS) will provide a real-time responsive capability to conduct long-dwell, wide area reconnaissance, surveillance, target acquisition, communications relay, and attack missions (up to 4 HELLFIRE Missiles aboard) to the Division Commander. The ER/MP addresses an ever-increasing demand for greater range, altitude, endurance and payload flexibility which enables dynamic mission changes while in flight. The ER/MP will be fielded as a system to a company level organization assigned to each of the 10 active Army Divisions Combat Aviation Brigades (CAB) providing a capability that is responsive to supported units based on the division Commander's priorities. The ER/MP system consists of 12 MQ-1C Sky Warrior aircraft with Electro-Optical/Infrared, Synthetic Aperture Radar with Ground Moving Target Indicator (EO/IR/SAR/GMTI), Communications Relay and precision weapons as payloads; Ground equipment includes 5 One System Ground Control Stations (OSGCS), 5 Ground Data Terminals (GDT), 2 Portable Ground Control Stations (PGCS), 2 Portable Ground Data Terminals (PGDT), a Satellite Communication (SATCOM) Ground Data Terminal (SGDT) and other associated ground support equipment. The acquisition strategy capitalizes upon competitive forces, bringing cutting-edge improvements at the best cost and value to support the major thrusts of the DoD UAS Roadmap, a host of other studies, and the imperatives of Army modernization and Army Aviation Transformation. This includes a heavy fuel engine, 30 mission hours of endurance (24 hours on station at 300 KM range), Tactical Common Data Link technology, network connectivity that reduces information cycle time and enhances overall battlespace awareness, teaming with manned platforms, and steps toward integration of UAS into national and international airspace. The ability to operate multiple Sky Warrior aircraft simultaneously from a single One System Ground Control Station (currently mission and Air Data Relay Aircraft), a 3,200 pound gross take off weight (with growth to 3,600 pounds), Fowler flaps which improve take-off and landing performance, Automatic Take-off and Landing and the flexibility to operate with or without SATCOM data links are characteristics which make this system a significant combat multiplier. | | | | | | |
| Justification: FY2010 ERMP Base funding of 401 million procures two ER/MP UAS, which includes 24 Air Vehicles, new equipment training and Pre-planned Product Improvement (P3I). FY2010 ERMP OCO funding of \$250 million procures one ER/MP UAS, which includes 12 Air Vehicles, new equipment training and Pre-planned Product Improvement (P3I). | | | | | | |
| | | FY2008 | FY2009 | FY2010 | | |
| Active | QTY | | | 24 | | |
| | Gross Cost | | | 401 | | |
| | | FY2010 | | | | |
| Active | QTY | | | 12 | | |

| | | | |
|---|-------|---|----------|
| Exhibit P-40, Budget Item Justification Sheet | | Date: | May 2009 |
| Appropriation / Budget Activity / Serial No: Aircraft Procurement, Army / 1 / Aircraft | | P-1 Item Nomenclature MQ1 (SKY WARRIOR - ERMP) (A00005) | |
| Program Elements for Code B Items: | Code: | Other Related Program Elements: 357204 RDT&E, B00305 - OPA | |
| Gross Cost 250 | | | |

| Exhibit P-5, Weapon ACFT Cost Analysis | | Appropriation/Budget Activity/Serial No: Aircraft Procurement, Army / 1 / Aircraft | | | P-1 Line Item Nomenclature: MQ1 (SKY WARRIOR - ERMP) (A00005) | | | Weapon System Type: | | Date: May 2009 | |
|---|--|---|--------------|------|--|--------------|------|---------------------|---------------|-------------------|-----------|
| ACFT Cost Elements | | ID CD | FY 08 | | | FY 09 | | | FY 10 | | |
| | | | Total Cost | Qty | Unit Cost | Total Cost | Qty | Unit Cost | Total Cost | Qty | Unit Cost |
| | | | \$000 | Each | \$000 | \$000 | Each | \$000 | \$000 | Each | \$000 |
| AIRCRAFT Flyaway Costs | | | | | | | | | | | |
| MQ1 (SKY WARRIOR - ERMP) | | | | | | | | | | | |
| Aircraft | | | | | | | | | 162656 | 24 | 6777 |
| Ground Control Station (GCS) | | | | | | | | | 28871 | | |
| Other Hardware | | | | | | | | | 112139 | | |
| Contractor Support | | | | | | | | | 10938 | | |
| P3I | | | | | | | | | 15454 | | |
| Prime Contractor Cost | | | | | | | | | 330058 | | |
| GOVERNMENT | | | | | | | | | | | |
| GFE | | | | | | | | | 30904 | | |
| Program Management | | | | | | | | | 6888 | | |
| OGA | | | | | | | | | 33514 | | |
| Subtotal Government Cost | | | | | | | | | 71306 | | |
| Total ERMP Cost | | | | | | | | | 401364 | | |
| OCO (SKY WARRIOR - ERMP) | | | | | | | | | | | |
| Aircraft | | | | | | | | | 81328 | 12 | 6777 |
| Ground Control Station (GCS) | | | | | | | | | 14566 | | |
| Other Hardware | | | | | | | | | 69980 | | |
| Contractor Support | | | | | | | | | 10376 | | |
| P3I | | | | | | | | | 24309 | | |
| Prime Contractor Cost | | | | | | | | | 200559 | | |
| GOVERNMENT | | | | | | | | | | | |
| GFE | | | | | | | | | 16678 | | |
| Program Management | | | | | | | | | 6888 | | |
| OGA | | | | | | | | | 25875 | | |
| Subtotal Government Cost | | | | | | | | | 49441 | | |
| Total ERMP Cost | | | | | | | | | | | |
| Total: | | | | | | | | | 651364 | | |

Exhibit P-5a, Budget Procurement History and Planning

Date:
May 2009

| | | | | | | | | | | |
|---|--|--------------------------|---------------------|------------|--|----------|-----------------|------------------|------------------|----------------|
| Appropriation/Budget Activity/Serial No: Aircraft Procurement, Army/ 1/ Aircraft | | | Weapon System Type: | | P-1 Line Item Nomenclature: MQ1 (SKY WARRIOR - ERMP) (A00005) | | | | | |
| WBS Cost Elements: | Contractor and Location | Contract Method and Type | Location of PCO | Award Date | Date of First Delivery | QTY Each | Unit Cost \$000 | Specs Avail Now? | Date Revsn Avail | RFP Issue Date |
| MQ1 (SKY WARRIOR - ERMP) FY 2010 | GENERAL ATOMICS / ASI SAN DIEGO, CA | SS/CPIF | AMCOM | Dec 10 | Jun 12 | 24 | 6777 | Y | N/A | N/A |
| OCO (SKY WARRIOR - ERMP) FY 2010 | GENERAL ATOMICS / ASI SAN DIEGO, CA | SS/CPIF | AMCOM | Dec 10 | Jun 12 | 12 | 6777 | Y | N/A | N/A |

REMARKS:

| | | |
|--|--|----------------|
| FY 11 / 12 BUDGET PRODUCTION SCHEDULE | P-1 ITEM NOMENCLATURE MQ1 (SKY WARRIOR - ERMP) (A00005) | Date: May 2009 |
|--|--|----------------|

| COST ELEMENTS | | | | | | Fiscal Year 11 | | | | | | | | | | | | | Fiscal Year 12 | | | | | | | | | Later | | | | | | | |
|--------------------------|-------|------------------|---------------------|-------------------------------|------------------------------|------------------|---|---|---|---|---|---|---|---|---|---|---|---|------------------|---|---|---|---|---|---|---|---|-------|---|---|---|---|----|----|---|
| | | | | | | Calendar Year 11 | | | | | | | | | | | | | Calendar Year 12 | | | | | | | | | | | | | | | | |
| M F R | FY | S E R V | PROC QTY Each | ACCEP PRIOR TO 1 OCT | BAL DUE AS OF 1 OCT | O | N | D | J | F | M | A | M | J | J | A | S | O | N | D | J | F | M | A | M | J | J | | A | S | | | | | |
| | | | | | | C | V | E | A | E | A | A | Y | U | U | U | E | C | V | E | A | E | B | R | R | Y | N | L | G | P | N | L | G | P | |
| MQ1 - SKY WARRIOR - ERMP | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | FY 10 | A | 24 | 0 | 24 | | | A | | | | | | | | | | | | | | | | | | | | | 1 | 1 | 1 | 1 | 20 | | |
| SKY WARRIOR - ERMP OCO | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | FY 10 | A | 12 | 4 | 12 | | | A | | | | | | | | | | | | | | | | | | | | | 1 | 1 | 1 | 1 | 4 | | |
| Total | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | 36 | | | | | | | | | | | | | | | | | | | | | | | | | 2 | 2 | 2 | 2 | 24 | |
| | | | | | | O | N | D | J | F | M | A | M | J | J | A | S | O | N | D | J | F | M | A | M | J | J | A | S | | | | | | |
| | | | | | | C | V | E | A | E | A | R | R | Y | U | U | U | E | C | V | E | A | E | B | R | R | Y | N | L | G | P | N | L | G | P |

| M F R | Name - Location | PRODUCTION RATES | | | Reached D+ | MFR | ADMIN LEAD TIME | | MFR After 1 Oct | TOTAL After 1 Oct | REMARKS | |
|-------------|--------------------------------------|------------------|-------|-----|---------------|-----|-----------------|-------------|--------------------|----------------------|---------|--|
| | | MIN | 1-8-5 | MAX | | | Prior 1 Oct | After 1 Oct | | | | |
| 1 | GENERAL ATOMICS / ASI, SAN DIEGO, CA | 1 | 1 | 3 | | 1 | Initial | 8 | 3 | 28 | 31 | |
| | | | | | | | Reorder | 0 | 0 | 0 | 0 | |
| | | | | | | | Initial | | | | | |
| | | | | | | | Reorder | | | | | |
| | | | | | | | Initial | | | | | |
| | | | | | | | Reorder | | | | | |
| | | | | | | | Initial | | | | | |
| | | | | | | | Reorder | | | | | |
| | | | | | | | Initial | | | | | |
| | | | | | | | Reorder | | | | | |

FY 13 / 14 BUDGET PRODUCTION SCHEDULE

P-1 ITEM NOMENCLATURE
MQ1 (SKY WARRIOR - ERMP) (A00005)

Date: May 2009

| COST ELEMENTS | | | | | | Fiscal Year 13 | | | | | | | | | | | Fiscal Year 14 | | | | | | | | | | | Later | | |
|--------------------------|-------|------------------|---------------------|-------------------------------|------------------------------|------------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|------------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| M F R | FY | S E R V | PROC QTY Each | ACCEP PRIOR TO 1 OCT | BAL DUE AS OF 1 OCT | Calendar Year 13 | | | | | | | | | | | Calendar Year 14 | | | | | | | | | | | | | |
| | | | | | | O C T | N O V | D E C | J A N | F E B | M A R | A P R | M A Y | J U N | J U L | A U G | S E P | O C T | N O V | D E C | J A N | F E B | M A R | A P R | M A Y | J U N | J U L | | A U G | S E P |
| MQ1 - SKY WARRIOR - ERMP | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | FY 10 | A | 24 | 4 | 20 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 0 |
| SKY WARRIOR - ERMP OCO | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | FY 10 | A | 12 | 4 | 8 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | | | | | | | | | | | | | | | | | | 0 |
| Total | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | 28 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 0 |
| | | | | | | O C T | N O V | D E C | J A N | F E B | M A R | A P R | M A Y | J U N | J U L | A U G | S E P | O C T | N O V | D E C | J A N | F E B | M A R | A P R | M A Y | J U N | J U L | A U G | S E P | |

| M F R | Name - Location | PRODUCTION RATES | | | | Reached D+ | MFR | ADMIN LEAD TIME | | MFR After 1 Oct | TOTAL After 1 Oct | REMARKS |
|-------------|--------------------------------------|------------------|-------|-----|-------------|---------------|---------|-----------------|---|--------------------|----------------------|---------|
| | | MIN | 1-8-5 | MAX | Prior 1 Oct | | | After 1 Oct | | | | |
| | | 1 | | | | | | | | | | |
| 1 | GENERAL ATOMICS / ASI, SAN DIEGO, CA | 1 | 1 | 3 | | 1 | Initial | 8 | 3 | 28 | 31 | |
| | | | | | | | Reorder | 0 | 0 | 0 | 0 | |
| | | | | | | | Initial | | | | | |
| | | | | | | | Reorder | | | | | |
| | | | | | | | Initial | | | | | |
| | | | | | | | Reorder | | | | | |
| | | | | | | | Initial | | | | | |
| | | | | | | | Reorder | | | | | |
| | | | | | | | Initial | | | | | |
| | | | | | | | Reorder | | | | | |

| | | | | | | |
|---|-------------|---------|---|---------|----------------|------------|
| Exhibit P-40, Budget Item Justification Sheet | | | | | Date: May 2009 | |
| Appropriation / Budget Activity / Serial No: Aircraft Procurement, Army / 1 / Aircraft | | | P-1 Item Nomenclature RQ-11 (RAVEN) (A00010) | | | |
| Program Elements for Code B Items: | | Code: | Other Related Program Elements: 375204 RDT&E, B00303 - OPA | | | |
| | Prior Years | FY 2008 | FY 2009 | FY 2010 | To Complete | Total Prog |
| Proc Qty | | | | 876 | | 876 |
| Gross Cost | | | | 79.6 | | 79.6 |
| Less PY Adv Proc | | | | | | |
| Plus CY Adv Proc | | | | | | |
| Net Proc P1 | | | | 79.6 | | 79.6 |
| Initial Spares | | | | | | |
| Total Proc Cost | | | | 79.6 | | 79.6 |
| Flyaway U/C | | | | 32.4 | | 32.4 |
| Weapon System Proc U/C | | | | 0.1 | | 0.1 |
| Description: The Small Unmanned Aircraft System (SUAS) program provides the ground maneuver battalions and below with situational awareness and enhanced force protection. SUAS is a man portable unmanned aircraft system capable of handling a wide variety of Intelligence, Surveillance & Reconnaissance (ISR) tasks at Battalion and below. The SUAS aircraft has a wingspan of 4.5 feet and weighs 4.2 pounds. It is hand-launched, and provides aerial observation, day or night, at line-of-sight ranges up to 10 kilometers. The aircraft has an endurance rate of 90 minutes and can deliver color or infrared imagery in real time to the ground control and remote viewing stations. SUAS obtained Milestone C approval 6 Oct 05 and successfully completed IOT&E June 06. The program obtained Full Rate Production authority 5 Oct 06. Beginning in FY10, Raven Systems will include a Digital Data Link (DDL). Implementation of a Digital Data Link (DDL) will allow for the operation of a greater number of Raven systems in the same radio frequency spectrum, vice four that are possible with current analog link. By making a denser operating environment possible, DDL mitigates frequency restrictions in theater which limit both training and operational effectiveness. | | | | | | |
| Justification: FY 10 Base funding in the amount of \$35 million will procure 618 Air Vehicles. FY 10 OCO funding in the amount of \$45 million will procure 258 Small Unmanned Aircraft Systems, and 472 Digital Data Link retrofit kits. | | | | | | |
| \$ M | | FY2008 | FY2009 | FY2010 | | |
| Active | QTY | | | 618 | | |
| | Gross Cost | | | 35 | | |
| OCO | | FY2010 | | | | |
| Active | QTY | | 258 | | | |
| | Gross Cost | | 45 | | | |

| Exhibit P-5, Weapon ACFT Cost Analysis | | Appropriation/Budget Activity/Serial No: Aircraft Procurement, Army / 1 / Aircraft | | | P-1 Line Item Nomenclature: RQ-11 (RAVEN) (A00010) | | | Weapon System Type: | | Date: May 2009 | |
|---|--|---|--------------|------|---|--------------|------|---------------------|--------------|-------------------|-----------|
| ACFT Cost Elements | | ID CD | FY 08 | | | FY 09 | | | FY 10 | | |
| | | | Total Cost | Qty | Unit Cost | Total Cost | Qty | Unit Cost | Total Cost | Qty | Unit Cost |
| | | | \$000 | Each | \$000 | \$000 | Each | \$000 | \$000 | Each | \$000 |
| RAVEN - RQ-11 | | | | | | | | | | | |
| PRIME CONTRACT SUPPORT | | | | | | | | | | | |
| Air Vehicles | | | | | | | | | | | |
| Other Hardware Cost | | | | | | | | | | | |
| Contractor Support | | | | | | | | | | | |
| Subtotal Prime Contractor Costs | | | | | | | | | | | |
| GOVERNMENT SUPPORT | | | | | | | | | | | |
| Government Furnished Equipment (GFE) | | | | | | | | | | | |
| Other Government Agencies (OGA) | | | | | | | | | | | |
| Program Management | | | | | | | | | | | |
| Subtotal Government Cost | | | | | | | | | | | |
| RAVEN OCO | | | | | | | | | | | |
| PRIME CONTRACT SUPPORT | | | | | | | | | | | |
| Digital Data Link (Contractor Support) | | | | | | | | | | | |
| Subtotal Prime Contractor Costs | | | | | | | | | | | |
| Total: | | | | | | | | | | | |
| | | | | | | | | | 79648 | | |

Exhibit P-5a, Budget Procurement History and Planning

Date:
May 2009

| | | | | | | | | | | |
|---|-----------------------------------|--------------------------|---------------------|------------|---|----------|-----------------|------------------|------------------|----------------|
| Appropriation/Budget Activity/Serial No: Aircraft Procurement, Army/ 1/ Aircraft | | | Weapon System Type: | | P-1 Line Item Nomenclature: RQ-11 (RAVEN) (A00010) | | | | | |
| WBS Cost Elements: | Contractor and Location | Contract Method and Type | Location of PCO | Award Date | Date of First Delivery | QTY Each | Unit Cost \$000 | Specs Avail Now? | Date Revsn Avail | RFP Issue Date |
| RAVEN - RQ-11 FY 2010 RAVEN OCO | AERO VIRONMENT SIMI VALLEY, CA | C/FFP | AMCOM | Jan 10 | May 10 | 704 | 15 | Y | N/A | N/A |

REMARKS:

Exhibit P-40, Budget Item Justification Sheet

Date: May 2009

Appropriation / Budget Activity / Serial No:
Aircraft Procurement, Army / 1 / Aircraft

P-1 Item Nomenclature
ARMED RECONNAISSANCE HELICOPTER (A04203)

Program Elements for Code B Items:

Code:

Other Related Program Elements:

| | Prior Years | FY 2008 | FY 2009 | FY 2010 | To Complete | Total Prog |
|------------------------|-------------|---------|---------|---------|-------------|------------|
| Proc Qty | | | | | | |
| Gross Cost | 0.1 | | 197.1 | 43.8 | | 241.0 |
| Less PY Adv Proc | | | | 43.8 | | 43.8 |
| Plus CY Adv Proc | | | 43.8 | | | 43.8 |
| Net Proc P1 | 0.1 | | 240.9 | | | 241.0 |
| Initial Spares | | | | | | |
| Total Proc Cost | 0.1 | | 240.9 | | | 241.0 |
| Flyaway U/C | | | | | | |
| Weapon System Proc U/C | | | | | | |

Description:
Program Terminated

| | |
|--|----------------|
| Exhibit P-40, Budget Item Justification Sheet | Date: May 2009 |
|--|----------------|

| | |
|---|---|
| Appropriation / Budget Activity / Serial No: Aircraft Procurement, Army / 1 / Aircraft | P-1 Item Nomenclature HELICOPTER, LIGHT UTILITY (LUH) (A05001) |
|---|---|

| | | |
|------------------------------------|-------|---------------------------------|
| Program Elements for Code B Items: | Code: | Other Related Program Elements: |
|------------------------------------|-------|---------------------------------|

| | Prior Years | FY 2008 | FY 2009 | FY 2010 | To Complete | Total Prog |
|------------------------|-------------|---------|---------|---------|-------------|------------|
| Proc Qty | 42 | 42 | 44 | 54 | | 182 |
| Gross Cost | 239.1 | 228.9 | 256.4 | 326.0 | | 1050.5 |
| Less PY Adv Proc | | | | | | |
| Plus CY Adv Proc | | | | | | |
| Net Proc P1 | 239.1 | 228.9 | 256.4 | 326.0 | | 1050.5 |
| Initial Spares | | | | | | |
| Total Proc Cost | 239.1 | 228.9 | 256.4 | 326.0 | | 1050.5 |
| Flyaway U/C | | | | | | |
| Weapon System Proc U/C | 5.7 | 5.5 | 5.8 | 6.0 | | 23.0 |

Description:
The Light Utility Helicopter, UH-72A LAKOTA will provide general aviation support for CONUS based Table of Distribution and Allowance (TDA) and Table of Organization and Equipment (TOE) aviation units in the active and reserve components. The UH-72A platform will provide the flexibility to respond to Homeland Security (HLS) requirements, conduct civil search and rescue operations, support damage assessment, support test and training centers, perform generating force missions, augment the HH-60 Medical Evacuation (MEDEVAC) aircraft, and provide support to Continental United States (CONUS) counterdrug operations. The UH-72A will conduct general support utility helicopter missions and execute tasks as part of an integrated effort with other joint services, government agencies, and non-governmental organizations. The UH-72A provides time-sensitive transport of supplies or key personnel, air mobility to assist civil authorities through the execution of search and rescue or disaster relief operations, advanced warning/detection of external threats to include threats to our borders, augmentation of air ambulance capabilities, and limited command and control operations in the conduct of HLS.

Justification:
FY 2010 procures 54 aircraft. Funding also provides for fielding, engineering services, training, program office support, and approved modifications.

| | | FY2008 | FY2009 | FY2010 |
|----------|------------|--------|--------|--------|
| Active | QTY | 14 | 28 | 21 |
| | Gross Cost | 79 | 164 | 139 |
| National | QTY | 28 | 16 | 33 |
| Guard | Gross Cost | 150 | 92 | 186 |

In accordance with congressional direction, Army has funded modifications for the aircraft added to the FY 2009 program. Revised funding is reflected on subsequent exhibits.

| Exhibit P-5, Weapon ACFT Cost Analysis | | Appropriation/Budget Activity/Serial No: Aircraft Procurement, Army / 1 / Aircraft | | | P-1 Line Item Nomenclature: HELICOPTER, LIGHT UTILITY (LUH) (A05001) | | | Weapon System Type: | | Date: May 2009 | |
|---|--|---|---------------------|--------------|---|---------------------|--------------|---------------------|---------------------|-------------------|--------------------|
| ACFT Cost Elements | | ID CD | FY 08 | | | FY 09 | | | FY 10 | | |
| | | | Total Cost \$000 | Qty Units | Unit Cost \$000 | Total Cost \$000 | Qty Units | Unit Cost \$000 | Total Cost \$000 | Qty Units | Unit Cost \$000 |
| Procurement Hardware Costs | | | | | | | | | | | |
| Airframes/Includes non-recurring | | | 205134 | 42 | 4884 | 219971 | 44 | 4999 | 272604 | 54 | 5048 |
| B Kits (MEDEVAC & Hoist) | | | 2306 | 12 | 192 | 1193 | 6 | 199 | 5969 | 29 | 206 |
| Engineering Changes | | | 11646 | | | 33408 | | | 22476 | | |
| Subtotal Hardware Cost | | | 219086 | | | 254572 | | | 301049 | | |
| Flyaway Support Costs | | | | | | | | | | | |
| System Engineering & Program Management | | | 4262 | | | 6800 | | | 7111 | | |
| System Test & Evaluation | | | 98 | | | | | | | | |
| Engineering Services | | | 1028 | | | 2156 | | | 2386 | | |
| Subtotal Flyaway Support Costs | | | 5388 | | | 8956 | | | 9497 | | |
| Total Flyaway | | | 224474 | | | 263528 | | | 310546 | | |
| Other Weapon System Cost | | | | | | | | | | | |
| Procedural Trainers | | | | | | | | | | | |
| Fielding | | | 4459 | | | 12831 | | | 15494 | | |
| Other Weapon System Requirements | | | | | | | | | | | |
| Subtotal Other Weapon System Cost | | | 4459 | | | 12831 | | | 15494 | | |
| Total Procurement Cost | | | 228933 | | | 276359 | | | 326040 | | |
| Gross P-1 End Cost | | | | | | | | | | | |
| Less: Prior Year Adv Proc | | | | | | | | | | | |
| Net P-1 Full Funding Cost | | | | | | | | | | | |
| Plus: P-1 CY Adv Proc | | | | | | | | | | | |
| Other Non P-1 Costs | | | | | | | | | | | |
| Total: | | | 228933 | | | 276359 | | | 326040 | | |

Exhibit P-5a, Budget Procurement History and Planning

Date:
May 2009

| | | | | | | | | | | |
|---|-------------------------|--------------------------|-------------------------|---|------------------------|-----------|-----------------|------------------|------------------|----------------|
| Appropriation/Budget Activity/Serial No: Aircraft Procurement, Army/ 1/ Aircraft | | Weapon System Type: | | P-1 Line Item Nomenclature: HELICOPTER, LIGHT UTILITY (LUH) (A05001) | | | | | | |
| WBS Cost Elements: | Contractor and Location | Contract Method and Type | Location of PCO | Award Date | Date of First Delivery | QTY Units | Unit Cost \$000 | Specs Avail Now? | Date Revsn Avail | RFP Issue Date |
| Airframes/Includes non-recurring | | | | | | | | | | |
| FY 2008 | EADS-NA Columbus, MS | FFP | EADS-NA Columbus, MS | Dec 07 | Sep 08 | 42 | 4884 | | | |
| FY 2009 | EADS-NA Columbus, MS | FFP | EADS-NA Columbus, MS | Nov 08 | Sep 09 | 44 | 4999 | | | |
| FY 2010 | EADS-NA Columbus, MS | FFP | EADS-NA Columbus, MS | Dec 09 | Sep 10 | 54 | 5048 | | | |

REMARKS: P-5 total of \$276.4 reflects a reprogramming in accordance with congressional direction to fund modifications.

| | | |
|--|---|-------------------|
| FY 10 / 11 BUDGET PRODUCTION SCHEDULE | P-1 ITEM NOMENCLATURE HELICOPTER, LIGHT UTILITY (LUH) (A05001) | Date: May 2009 |
|--|---|-------------------|

| COST ELEMENTS | | | | | | Fiscal Year 10 | | | | | | | | | | | | Fiscal Year 11 | | | | | | | | | | | | Later |
|---------------|----|------------------|----------------------|-------------------------------|------------------------------|------------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|------------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------|
| M F R | FY | S E R V | PROC QTY Units | ACCEP PRIOR TO 1 OCT | BAL DUE AS OF 1 OCT | Calendar Year 10 | | | | | | | | | | | | Calendar Year 11 | | | | | | | | | | | | |
| | | | | | | O C T | N O V | D E C | J A N | F E B | M A R | A P R | M A Y | J U N | J U L | A U G | S E P | O C T | N O V | D E C | J A N | F E B | M A R | A P R | M A Y | J U N | J U L | A U G | S E P | |

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------------------------|-------|---|----|----|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|--|--|--|--|--|---|---|
| Airframes/Includes non-recurring | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | FY 08 | A | 42 | 42 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 0 |
| 1 | FY 09 | A | 44 | 3 | 41 | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | | | | | | | | | | | | | | | | | | | | 0 |
| 1 | FY 10 | A | 54 | 0 | 54 | | | A | | | | | | | | 4 | 4 | 4 | 4 | 5 | 4 | 5 | 5 | 4 | 5 | 5 | 5 | | | | | | | 0 | |
| Total | | | | | 95 | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 5 | 4 | 5 | 5 | 4 | 5 | 5 | 5 | | | | | | | | |
| | | | | | O C T | N O V | D E C | J A N | F E B | M A R | A P R | M A Y | J U N | J U L | A U G | S E P | O C T | N O V | D E C | J A N | F E B | M A R | A P R | M A Y | J U N | J U L | A U G | S E P | | | | | | | |

| M F R | Name - Location | PRODUCTION RATES | | | Reached D+ | MFR | ADMIN LEAD TIME | | MFR After 1 Oct | TOTAL After 1 Oct | REMARKS | |
|-------------|-----------------------|------------------|-------|-----|---------------|-----|-----------------|-------------|--------------------|----------------------|---------|--|
| | | MIN | 1-8-5 | MAX | | | Prior 1 Oct | After 1 Oct | | | | |
| 1 | EADS-NA, Columbus, MS | 23 | 52 | 60 | | 1 | Initial | 0 | 9 | 5 | 14 | |
| | | | | | | | Reorder | 0 | 2 | 9 | 11 | |
| | | | | | | | Initial | | | | | |
| | | | | | | | Reorder | | | | | |
| | | | | | | | Initial | | | | | |
| | | | | | | | Reorder | | | | | |
| | | | | | | | Initial | | | | | |
| | | | | | | | Reorder | | | | | |
| | | | | | | | Initial | | | | | |
| | | | | | | | Reorder | | | | | |

| | |
|--|----------------|
| Exhibit P-40, Budget Item Justification Sheet | Date: May 2009 |
|--|----------------|

| | |
|---|--|
| Appropriation / Budget Activity / Serial No: Aircraft Procurement, Army / 1 / Aircraft | P-1 Item Nomenclature AH-64 APACHE BLOCK III (A05111) |
|---|--|

| | | |
|------------------------------------|-------|---------------------------------|
| Program Elements for Code B Items: | Code: | Other Related Program Elements: |
|------------------------------------|-------|---------------------------------|

| | Prior Years | FY 2008 | FY 2009 | FY 2010 | To Complete | Total Prog |
|------------------------|-------------|---------|---------|---------|-------------|------------|
| Proc Qty | | | | 8 | | 8 |
| Gross Cost | | | | 161.3 | | 161.3 |
| Less PY Adv Proc | | | | | | |
| Plus CY Adv Proc | | | | 57.9 | | 57.9 |
| Net Proc P1 | | | | 219.2 | | 219.2 |
| Initial Spares | | | | | | |
| Total Proc Cost | | | | 219.2 | | 219.2 |
| Flyaway U/C | | | | | | |
| Weapon System Proc U/C | | | | 27.4 | | 27.4 |

Description:
 AB3 is a result of the continuing evolution process to keep the Apache fleet viable on the battlefield. Consequently, AB3 is the Army's only Attack Helicopter solution capable of interoperability with Joint and Future Modular Forces. The AB3 program is the remanufacture of the aging Apache fleet integrating proven technologies into a mature weapon system platform. AB3 will add significant combat capability while addressing obsolescence issues to ensure the aircraft remains a realistic combat multiplier beyond 2025. AB3 will address current system shortfalls by integrating: Unmanned Aircraft System (UAS) Level III - IV Control Capability, Improved Situational Awareness, an Upgraded Communications Suite, Improved Drive and Propulsion Systems, Improved Targeting Capability, Increased Computer Processing Capability and Speed, Improved Navigation Systems, and Improved Diagnostics and Maintainability. These system improvement requirements were generated by operational short falls identified during real world combat missions. AB3 enters the fleet in 2011.

Justification:
 The AB3 Modernization is an incremental integration of block modifications providing the capabilities for the Longbow Apache to transition to the Future Force (FF), to increase survivability, and reduce the logistics footprint. AB3 satisfies the updated Longbow Apache Capability Development Document (CDD) mandates for modernization.

FY 10 Base funding in the amount of \$219.2M will procure Advanced Procurement items, 8 Low Rate Initial Production (LRIP) Longbow Apache Block III aircraft, and associated support.

| | | | |
|------------|--------|--------|--------|
| | FY2008 | FY2009 | FY2010 |
| Active QTY | | | 8 |
| Gross Cost | | | 219 |

The AH-64 APACHE BLOCK III program was initiated in FY2009 with \$11 million for Long Lead Items. This effort was funded in the AH-64 MODS Line (BA 2). The new budget line for AH-64 APACHE BLOCK III (BA 1) was established to give this program more visibility.

| Exhibit P-5, Weapon ACFT Cost Analysis | | Appropriation/Budget Activity/Serial No: Aircraft Procurement, Army / 1 / Aircraft | | | P-1 Line Item Nomenclature: AH-64 APACHE BLOCK III (A05111) | | | Weapon System Type: | | Date: May 2009 | |
|---|--|---|--------------|------|--|--------------|------|---------------------|--------------|-------------------|-----------|
| ACFT Cost Elements | | ID CD | FY 08 | | | FY 09 | | | FY 10 | | |
| | | | Total Cost | Qty | Unit Cost | Total Cost | Qty | Unit Cost | Total Cost | Qty | Unit Cost |
| | | | \$000 | Each | \$000 | \$000 | Each | \$000 | \$000 | Each | \$000 |
| APACHE BLOCK III (AB3) Flyaway Costs | | | | | | | | | | | |
| Airframes | | | | | | | | 48864 | 8 | | 6108 |
| Engines | | | | | | | | 9123 | 16 | | 570 |
| GFE | | | | | | | | 4757 | | | |
| Engineering Change Orders (ECO) | | | | | | | | 1628 | | | |
| Other Costs | | | | | | | | 4940 | | | |
| Non-Recurring Costs | | | | | | | | | | | |
| Non-Recurring Costs | | | | | | | | 37632 | | | |
| Support Cost | | | | | | | | | | | |
| Support Equipment | | | | | | | | 1302 | | | |
| Publications/Tech Data | | | | | | | | 543 | | | |
| PDSS (Software) | | | | | | | | | | | |
| Other Costs | | | | | | | | 52140 | | | |
| Initial Spares | | | | | | | | | | | |
| Initial Spares | | | | | | | | 351 | | | |
| Subtotal Costs | | | | | | | | 161280 | | | |
| Advance Procurement | | | | | | | | 57890 | | | |
| Total Flyaway | | | | | | | | 219170 | | | |
| Total: | | | | | | | | 219170 | | | |

Exhibit P-5a, Budget Procurement History and Planning

Date:
May 2009

| | | | | | | | | | | | |
|---|--------------------------------|--------------------------|---------------------|------------|--|----------|-----------------|------------------|------------------|----------------|--|
| Appropriation/Budget Activity/Serial No: Aircraft Procurement, Army/ 1/ Aircraft | | | Weapon System Type: | | P-1 Line Item Nomenclature: AH-64 APACHE BLOCK III (A05111) | | | | | | |
| WBS Cost Elements: | Contractor and Location | Contract Method and Type | Location of PCO | Award Date | Date of First Delivery | QTY Each | Unit Cost \$000 | Specs Avail Now? | Date Revsn Avail | RFP Issue Date | |
| Airframes FY 2010 | The Boeing Company Mesa, AZ | SS/FFP | AMCOM | May 10 | Jun 11 | 8 | 6108 | N | | Jun 08 | |

REMARKS: FY10 -- LRIP Lot 1 Production (8 aircraft)

| | | | | | | |
|---|-------------|---------|---------------------------------|--|-------------|----------------|
| Exhibit P-40, Budget Item Justification Sheet | | | | | | Date: May 2009 |
| Appropriation / Budget Activity / Serial No: Aircraft Procurement, Army / 1 / Aircraft | | | | P-1 Item Nomenclature AH-64 APACHE BLOCK III (A05111) | | |
| Program Elements for Code B Items: | | Code: | Other Related Program Elements: | | | |
| | Prior Years | FY 2008 | FY 2009 | FY 2010 | To Complete | Total Prog |
| Proc Qty | | | | | | |
| Gross Cost | | | | | | |
| Less PY Adv Proc | | | | | | |
| Plus CY Adv Proc | | | | 57.9 | | 57.9 |
| Net Proc P1 | | | | 57.9 | | 57.9 |
| Initial Spares | | | | | | |
| Total Proc Cost | | | | 57.9 | | 57.9 |
| Flyaway U/C | | | | | | |
| Weapon System Proc U/C | | | | | | |
| Description: AB3 is a result of the continuing evolution process to keep the Apache fleet viable on the battlefield. Consequently, AB3 is the Army's only Attack Helicopter solution capable of interoperability with Join and Future Combat Forces. The AB3 program is the remanufacture of the aging Apache fleet integrating proven technologies into a mature weapon system platform. AB3 will add significant combat capability while addressing obsolescence issues to ensure the aircraft remains a realistic combat multiplier beyond 2025. Advanced Procurement for AB3 contains funding for the Boeing airframe contract. | | | | | | |
| Justification: Advanced Procurement funds long-lead items in support of the Apache Block III program. FY09 funds for AB3 advance procurement are located in the AH-64 Mods Procurement forms. | | | | | | |

| | | | |
|--|--------------------------|-------------------------------|----------|
| Advance Procurement Requirements Analysis-Funding (P-10A) | First System Award Date: | First System Completion Date: | Date: |
| | | | May 2009 |

| | |
|---|---|
| Appropriation / Budget Activity / Serial No: Aircraft Procurement, Army / 1 / Aircraft | P-1 Line Item Nomenclature / Weapon System: AH-64 APACHE BLOCK III |
|---|---|

| | | (\$ in Millions) | | | | | | |
|----------------------------------|--------------|----------------------|------------|------------|------------|-------------|------------|-------------|
| | PLT (mos) | When Rqd (mos) | Pr Yrs | FY 08 | FY 09 | FY 10 | To Comp | Total |
| End Item Quantity | | | | | | | | |
| Apache Block III | 12 | 12 | | | | 57.9 | | 57.9 |
| Total Advance Procurement | | | 0.0 | 0.0 | 0.0 | 57.9 | 0.0 | 57.9 |

| | |
|--|----------------|
| Advance Procurement Requirements Analysis-Funding (P-10B) | Date: May 2009 |
|--|----------------|

| | |
|---|---|
| Appropriation / Budget Activity / Serial No: Aircraft Procurement, Army / 1 / Aircraft | P-1 Line Item Nomenclature / Weapon System: AH-64 APACHE BLOCK III |
|---|---|

| | (\$ in Millions) | | | | | |
|----------------------------------|------------------|-----------------------------|--------------|------|---------------------------|-----------------------|
| | PLT (mos) | Quantity Per Assembly | Unit Cost | 2010 | | |
| | | | | Qty | Contract Forecast Date | Total Cost Request |
| Apache Block III | 12 | | | 30.0 | 1QFY10 | 57.9 |
| Total Advance Procurement | | | | | | 57.9 |

| | |
|--|----------------|
| Exhibit P-40, Budget Item Justification Sheet | Date: May 2009 |
|--|----------------|

| | |
|---|---|
| Appropriation / Budget Activity / Serial No: Aircraft Procurement, Army / 1 / Aircraft | P-1 Item Nomenclature UH-60 BLACKHAWK (MYP) (AA0005) |
|---|---|

| | | |
|------------------------------------|-------|---|
| Program Elements for Code B Items: | Code: | Other Related Program Elements: 0203744A/Project 504 |
|------------------------------------|-------|---|

| | Prior Years | FY 2008 | FY 2009 | FY 2010 | To Complete | Total Prog |
|------------------------|-------------|---------|---------|---------|-------------|------------|
| Proc Qty | 1755 | 77 | 68 | 83 | | 1983 |
| Gross Cost | 11662.9 | 1421.6 | 1122.9 | 1467.2 | | 15674.7 |
| Less PY Adv Proc | 2613.9 | 183.0 | 116.8 | 134.5 | | 3048.3 |
| Plus CY Adv Proc | 2799.0 | 116.0 | 136.8 | 98.7 | | 3150.5 |
| Net Proc P1 | 11848.0 | 1354.6 | 1142.9 | 1431.5 | | 15776.9 |
| Initial Spares | 421.3 | | | | | 421.3 |
| Total Proc Cost | 12269.3 | 1354.6 | 1142.9 | 1431.5 | | 16198.2 |
| Flyaway U/C | | | | | | |
| Weapon System Proc U/C | 6.8 | 17.6 | 16.8 | 17.2 | | 58.4 |

Description:
The UH-60 BLACK HAWK is a twin engine, single rotor helicopter that is designed to support the Army's air mobility doctrine for employment of land forces in the 21st century. The BLACK HAWK is used in the performance of the Air Assault, General Support, and Aeromedical Evacuation missions. It is designed to carry a crew of four and 11 combat-equipped troops, or an external load up to 9,000 pounds. It performs the missions of transporting troops and equipment into combat, resupplying the troops while in combat, and performing the associated functions of aeromedical evacuation, repositioning of reserves, and command and control.

Justification:
FY 10 Base funding in the amount of \$1,258 million will procure 79 aircraft.
FY 10 OCO funding in the amount of \$74 million will procure 4 aircraft.

| | | FY2008 | FY2009 | FY2010 |
|----------|------------|--------|--------|--------|
| Active | QTY | 47 | 66 | 69 |
| | Gross Cost | 820 | 1103 | 1175 |
| National | QTY | 10 | 2 | 10 |
| Guard | Gross Cost | 182 | 40 | 182 |
| Reserve | QTY | 20 | | |
| | Gross Cost | 352 | | |
| OCO | | | | FY2010 |
| Active | QTY | | | 4 |
| | Gross Cost | | | 74 |

| Exhibit P-40, Budget Item Justification Sheet | | | | | | Date: |
|---|-------------|---------|---|---------|-------------|--|
| Appropriation / Budget Activity / Serial No: Aircraft Procurement, Army / 1 / Aircraft | | | | | | P-1 Item Nomenclature UH-60 BLACK HAWK (MYP) (A05002) |
| Program Elements for Code B Items: | | Code: | Other Related Program Elements: 0203744A/Project 504 | | | |
| | Prior Years | FY 2008 | FY 2009 | FY 2010 | To Complete | Total Prog |
| Proc Qty | 1752 | 77 | 68 | 83 | | 1980 |
| Gross Cost | 11623.4 | 1421.6 | 1122.9 | 1467.2 | | 15635.2 |
| Less PY Adv Proc | 2613.9 | 183.0 | 116.8 | 134.5 | | 3048.3 |
| Plus CY Adv Proc | 2799.0 | 116.0 | 136.8 | 98.7 | | 3150.5 |
| Net Proc P1 | 11808.5 | 1354.6 | 1142.9 | 1431.5 | | 15737.4 |
| Initial Spares | 421.3 | | | | | 421.3 |
| Total Proc Cost | 12229.8 | 1354.6 | 1142.9 | 1431.5 | | 16158.7 |
| Flyaway U/C | | | | | | |
| Weapon System Proc U/C | 17.7 | 17.4 | 16.8 | 17.5 | 21.8 | 91.2 |
| Description: The UH-60 BLACK HAWK is a twin engine, single rotor helicopter that is designed to support the Army's air mobility doctrine for employment of land forces in the 21st century. The BLACK HAWK is used in the performance of the Air Assault, General Support, and Aeromedical Evacuation missions. It is designed to carry a crew of four and 11 combat-equipped troops, or an external load up to 9,000 pounds. It performs the missions of transporting troops and equipment into combat, resupplying the troops while in combat, and performing the associated functions of aeromedical evacuation, repositioning of reserves, and command and control. | | | | | | |
| Justification: FY 10 Base funding in the amount of \$1,258 million will procure 79 aircraft. FY 10 OCO funding in the amount of \$74 million will procure 4 aircraft. | | | | | | |
| | | FY2008 | FY2009 | FY2010 | | |
| Active | QTY | 47 | 66 | 69 | | |
| | Gross Cost | 820 | 1103 | 1175 | | |
| National | QTY | 10 | 2 | 10 | | |
| Guard | Gross Cost | 182 | 40 | 182 | | |
| Reserve | QTY | 20 | | | | |
| | Gross Cost | 352 | | | | |
| OCO | | | | FY2010 | | |
| Active | QTY | | | 4 | | |
| | Gross Cost | | | 74 | | |

| Exhibit P-5, Weapon ACFT Cost Analysis | | Appropriation/Budget Activity/Serial No: Aircraft Procurement, Army / 1 / Aircraft | | | P-1 Line Item Nomenclature: UH-60 BLACK HAWK (MYP) (A05002) | | | Weapon System Type: | | Date: May 2009 | |
|---|--|---|---------------------|--------------|--|---------------------|--------------|---------------------|---------------------|-------------------|--------------------|
| ACFT Cost Elements | | ID CD | FY 08 | | | FY 09 | | | FY 10 | | |
| | | | Total Cost \$000 | Qty Units | Unit Cost \$000 | Total Cost \$000 | Qty Units | Unit Cost \$000 | Total Cost \$000 | Qty Units | Unit Cost \$000 |
| Aircraft Flyaway Costs | | | | | | | | | | | |
| Airframes/CFE | | | 869199 | 77 | 11288 | 827856 | 68 | 12174 | 1034453 | 83 | 12463 |
| Engines/Accessories | | | 99562 | 154 | 647 | 86699 | 136 | 637 | 116553 | 166 | 702 |
| Avionics (GFE) | | | 51978 | | | 35420 | | | 50324 | | |
| Other GFE | | | 39333 | | | 25816 | | | 37218 | | |
| Armament | | | | | | | | | | | |
| ECO (All FLYAWAY Components) | | | 29637 | | | 20557 | | | 26920 | | |
| Other Costs (Mission Equipment) | | | 205642 | | | 42301 | | | 65307 | | |
| Tooling Equipment | | | 27972 | | | 8954 | | | 3677 | | |
| Other Nonrecurring Cost | | | 3651 | | | | | | 4566 | | |
| Total FLYAWAY | | | 1326974 | | | 1047603 | | | 1339018 | | |
| Support Cost | | | | | | | | | | | |
| Airframe PGSE | | | | | | | | | | | |
| Engine PGSE | | | | | | | | | | | |
| Peculiar Training Equipment | | | 36395 | | | 31568 | | | 56972 | | |
| Publications/Tech Data | | | 1961 | | | 2975 | | | 3132 | | |
| PM Administration | | | 27346 | | | 31080 | | | 32151 | | |
| Fielding | | | 28944 | | | 9688 | | | 35981 | | |
| Subtotal Support Cost | | | 94646 | | | 75311 | | | 128236 | | |
| Gross P-1 End Item Cost | | | 1421620 | | | 1122914 | | | 1467254 | | |
| Less: Prior Year Adv Proc | | | 183009 | | | 116795 | | | 134540 | | |
| Net P-1 Full Funding Cost | | | 1238611 | | | 1006119 | | | 1332714 | | |
| Plus: P-1 CY Adv Proc | | | 115956 | | | 136770 | | | 98740 | | |
| Initial Spares | | | | | | | | | | | |
| Total: | | | 1354567 | | | 1142889 | | | 1431454 | | |

Exhibit P-5a, Budget Procurement History and Planning

Date:
May 2009

| Appropriation/Budget Activity/Serial No: Aircraft Procurement, Army/ 1/ Aircraft | | Weapon System Type: | | P-1 Line Item Nomenclature: UH-60 BLACK HAWK (MYP) (A05002) | | | | | | |
|---|-----------------------------------|--------------------------|-----------------|--|------------------------|----------|-----------------|------------------|------------------|----------------|
| WBS Cost Elements: | Contractor and Location | Contract Method and Type | Location of PCO | Award Date | Date of First Delivery | QTY Each | Unit Cost \$000 | Specs Avail Now? | Date Revsn Avail | RFP Issue Date |
| Airframes/CFE | | | | | | | | | | |
| FY 2008 | Sikorsky Aircraft Stratford CT | SSM/FP | AMCOM | Dec 07 | Oct 08 | 47 | 11288 | Yes | | May-05 |
| FY 2008 | Sikorsky Aircraft Stratford CT | SSM/FP | AMCOM | Mar 08 | Feb 10 | 26 | 11288 | Yes | | May-05 |
| FY 2008 | Sikorsky Aircraft Stratford CT | SSM/FP | AMCOM | May 08 | Mar 10 | 4 | 11288 | Yes | | May-05 |
| FY 2009 | Sikorsky Aircraft Stratford CT | SSM/FP | AMCOM | Dec 08 | Aug 09 | 63 | 12174 | Yes | | May-05 |
| FY 2009 | Sikorsky Aircraft Stratford CT | SSM/FP | AMCOM | May 09 | Nov 10 | 5 | 12174 | Yes | | May-05 |
| FY 2010 | Sikorsky Aircraft Stratford CT | SSM/FP | AMCOM | Dec 09 | Jul 10 | 49 | 12463 | Yes | | May-05 |
| FY 2010 | Sikorsky Aircraft Stratford CT | SSM/FP | AMCOM | Dec 09 | Feb 11 | 21 | 12463 | Yes | | May-05 |
| FY 2010 | Sikorsky Aircraft Stratford CT | SSM/FP | AMCOM | Jan 10 | Jul 11 | 13 | 12463 | Yes | | May-05 |

REMARKS: The FY 2007 contract is the first year of a 5 year multi-year, multi-service contract for the procurement of H-60Ms.

| | | |
|--|--|-------------------|
| FY 09 / 10 BUDGET PRODUCTION SCHEDULE | P-1 ITEM NOMENCLATURE UH-60 BLACK HAWK (MYP) (A05002) | Date: May 2009 |
|--|--|-------------------|

| COST ELEMENTS | | | | | | Fiscal Year 09 | | | | | | | | | | | | Fiscal Year 10 | | | | | | | | | | | | Later | | | | |
|---------------|-------|------------------|----------------------|-------------------------------|------------------------------|------------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|------------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------|---|---|----|---|
| M F R | FY | S E R V | PROC QTY Units | ACCEP PRIOR TO 1 OCT | BAL DUE AS OF 1 OCT | Calendar Year 09 | | | | | | | | | | | | Calendar Year 10 | | | | | | | | | | | | | | | | |
| | | | | | | O C T | N O V | D E C | J A N | F E B | M A R | A P R | M A Y | J U N | J U L | A U G | S E P | O C T | N O V | D E C | J A N | F E B | M A R | A P R | M A Y | J U N | J U L | A U G | S E P | | | | | |
| Airframes/CFE | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | FY 08 | A | 47 | 4 | 43 | 6 | 5 | 6 | 1 | 1 | 4 | 2 | 4 | 6 | 5 | 3 | | | | | | | | | | | | | | | | | 0 | |
| 1 | FY 08 | A | 26 | 0 | 26 | | | | | | | | | | | | | | | | | | | | | 2 | 4 | 5 | 1 | 1 | 3 | 3 | 2 | 5 |
| 1 | FY 08 | A | 4 | 0 | 4 | | | | | | | | | | | | | | | | | | | | | | | | | | | | 4 | |
| 1 | FY 09 | A | 63 | 0 | 63 | | | A | | | | | | | 5 | 4 | 7 | 9 | 6 | 7 | 4 | 5 | 3 | 5 | 5 | 3 | | | | | | | 0 | |
| 1 | FY 09 | A | 5 | 0 | 5 | | | | | | | A | | | | | | | | | | | | | | | | | | | | | 5 | |
| 1 | FY 10 | A | 49 | 0 | 49 | | | | | | | | | | | | | | A | | | | | | | | | | 2 | 4 | 4 | | 39 | |
| 1 | FY 10 | A | 21 | 0 | 21 | | | | | | | | | | | | | | A | | | | | | | | | | | | | | 21 | |
| 1 | FY 10 | A | 13 | 0 | 13 | | | | | | | | | | | | | | | A | | | | | | | | | | | | | 13 | |
| 1 | FY 08 | NA | 18 | 0 | 18 | | | | | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | | | | | | | | | | | | | | | 0 | |
| 1 | FY 08 | NA | 2 | 0 | 2 | | | | | | | | | | | | | | | | | | | | | | | | 1 | | 1 | | 0 | |
| 1 | FY 08 | NA | 28 | 0 | 28 | | | | | | | | | | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | | | | | | | | 2 | |
| 1 | FY 09 | NA | 20 | 0 | 20 | | | | | | | | | | | | 2 | 2 | 2 | 3 | 2 | 3 | 2 | 2 | | | | | | | | | 2 | |
| 1 | FY 09 | NA | 31 | 0 | 31 | | | | | | | | | | | | | | | | | | | | | | | | 3 | 2 | 3 | | 23 | |
| 1 | FY 10 | NA | 18 | 0 | 18 | | | | | | | | | | | | | | | | | | | | | | | 1 | 2 | 1 | | | 14 | |
| 1 | FY 10 | NA | 24 | 0 | 24 | | | | | | | | | | | | | | | | | | | | | | | | | | | | 24 | |
| | | | | | | O C T | N O V | D E C | J A N | F E B | M A R | A P R | M A Y | J U N | J U L | A U G | S E P | O C T | N O V | D E C | J A N | F E B | M A R | A P R | M A Y | J U N | J U L | A U G | S E P | | | | | |

| M F R | Name - Location | PRODUCTION RATES | | | Reached D+ | MFR | ADMIN LEAD TIME | | MFR After 1 Oct | TOTAL After 1 Oct | REMARKS | |
|-------------|---------------------------------|------------------|-------|-----|---------------|-----|-----------------|-------------|--------------------|----------------------|---------|--|
| | | MIN | 1-8-5 | MAX | | | Prior 1 Oct | After 1 Oct | | | | |
| 1 | Sikorsky Aircraft, Stratford CT | 18 | 96 | 150 | 22 | 1 | Initial | 8 | 3 | 6 | 9 | |
| | | | | | | | Reorder | 0 | 3 | 6 | 9 | |
| | | | | | | | Initial | | | | | |
| | | | | | | | Reorder | | | | | |
| | | | | | | | Initial | | | | | |
| | | | | | | | Reorder | | | | | |
| | | | | | | | Initial | | | | | |
| | | | | | | | Reorder | | | | | |
| | | | | | | | Initial | | | | | |
| | | | | | | | Reorder | | | | | |

FY 09 / 10 BUDGET PRODUCTION SCHEDULE

P-1 ITEM NOMENCLATURE
UH-60 BLACK HAWK (MYP) (A05002)

Date: May 2009

| COST ELEMENTS | | | | | | Fiscal Year 09 | | | | | | | | | | | | | Fiscal Year 10 | | | | | | | | | | | | | Later |
|---------------|----|------|----------------|----------------------|---------------------|------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--|-------|
| MFR | FY | SERV | PROC QTY Units | ACCEP PRIOR TO 1 OCT | BAL DUE AS OF 1 OCT | Calendar Year 09 | | | | | | | | | | | | | Calendar Year 10 | | | | | | | | | | | | | |
| | | | | | | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | | | |
| Total | | | | | 365 | 6 | 5 | 6 | 1 | 3 | 6 | 4 | 6 | 8 | 7 | 12 | 8 | 11 | 13 | 10 | 11 | 11 | 14 | 14 | 11 | 11 | 13 | 11 | 11 | 152 | | |
| | | | | | | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | | | |

| MFR | Name - Location | PRODUCTION RATES | | | Reached D+ | MFR | ADMIN LEAD TIME | | MFR After 1 Oct | TOTAL After 1 Oct | REMARKS | |
|-----|---------------------------------|------------------|-------|-----|------------|-----|-----------------|-------------|-----------------|-------------------|---------|--|
| | | MIN | 1-8-5 | MAX | | | Prior 1 Oct | After 1 Oct | | | | |
| 1 | Sikorsky Aircraft, Stratford CT | 18 | 96 | 150 | 22 | 1 | Initial | 8 | 3 | 6 | 9 | |
| | | | | | | | Reorder | 0 | 3 | 6 | 9 | |
| | | | | | | | Initial | | | | | |
| | | | | | | | Reorder | | | | | |
| | | | | | | | Initial | | | | | |
| | | | | | | | Reorder | | | | | |
| | | | | | | | Initial | | | | | |
| | | | | | | | Reorder | | | | | |

| | | |
|--|--|-------------------|
| FY 11 / 12 BUDGET PRODUCTION SCHEDULE | P-1 ITEM NOMENCLATURE UH-60 BLACK HAWK (MYP) (A05002) | Date: May 2009 |
|--|--|-------------------|

| COST ELEMENTS | | | | | | Fiscal Year 11 | | | | | | | | | | | | Fiscal Year 12 | | | | | | | | | | | | Later | | | | | | |
|---------------|-------|------------------|----------------------|-------------------------------|------------------------------|------------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|------------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------|--|--|--|--|---|---|
| M F R | FY | S E R V | PROC QTY Units | ACCEP PRIOR TO 1 OCT | BAL DUE AS OF 1 OCT | Calendar Year 11 | | | | | | | | | | | | Calendar Year 12 | | | | | | | | | | | | | | | | | | |
| | | | | | | O C T | N O V | D E C | J A N | F E B | M A R | A P R | M A Y | J U N | J U L | A U G | S E P | O C T | N O V | D E C | J A N | F E B | M A R | A P R | M A Y | J U N | J U L | A U G | S E P | | | | | | | |
| Airframes/CFE | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | FY 08 | A | 47 | 47 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 0 | |
| 1 | FY 08 | A | 26 | 21 | 5 | 2 | 1 | 2 | | | | | | | | | | | | | | | | | | | | | | | | | | | 0 | |
| 1 | FY 08 | A | 4 | 0 | 4 | | | 2 | 2 | | | | | | | | | | | | | | | | | | | | | | | | | | 0 | |
| 1 | FY 09 | A | 63 | 63 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 0 |
| 1 | FY 09 | A | 5 | 0 | 5 | | 3 | 2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | 0 |
| 1 | FY 10 | A | 49 | 10 | 39 | 5 | 4 | 4 | 4 | 3 | 5 | 5 | 5 | 4 | | | | | | | | | | | | | | | | | | | | | | 0 |
| 1 | FY 10 | A | 21 | 0 | 21 | | | | | 3 | 2 | 2 | 2 | 2 | 2 | 2 | 1 | 1 | 2 | | | | | | | | | | | | | | | | | 0 |
| 1 | FY 10 | A | 13 | 0 | 13 | | | | | | | | | 3 | 2 | 3 | 2 | 2 | 1 | | | | | | | | | | | | | | | | | 0 |
| 1 | FY 08 | NA | 18 | 18 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 0 |
| 1 | FY 08 | NA | 2 | 2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 0 |
| 1 | FY 08 | NA | 28 | 26 | 2 | | 1 | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | 0 |
| 1 | FY 09 | NA | 20 | 18 | 2 | | | 2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | 0 |
| 1 | FY 09 | NA | 31 | 8 | 23 | 3 | 3 | 2 | 3 | 3 | 3 | 3 | 3 | | | | | | | | | | | | | | | | | | | | | | | 0 |
| 1 | FY 10 | NA | 18 | 4 | 14 | 2 | 2 | 1 | 1 | 2 | 1 | 2 | 2 | 1 | | | | | | | | | | | | | | | | | | | | | | 0 |
| 1 | FY 10 | NA | 24 | 0 | 24 | | | | | | | | | 3 | 3 | 3 | 3 | 3 | 3 | 2 | 2 | 2 | | | | | | | | | | | | | | 0 |
| | | | | | | O C T | N O V | D E C | J A N | F E B | M A R | A P R | M A Y | J U N | J U L | A U G | S E P | O C T | N O V | D E C | J A N | F E B | M A R | A P R | M A Y | J U N | J U L | A U G | S E P | | | | | | | |

| M F R | Name - Location | PRODUCTION RATES | | | | Reached D+ | MFR | ADMIN LEAD TIME | | MFR After 1 Oct | TOTAL After 1 Oct | REMARKS |
|-------------|---------------------------------|------------------|-------|-----|----|---------------|---------|-----------------|-------------|--------------------|----------------------|---------|
| | | MIN | 1-8-5 | MAX | 1 | | | Prior 1 Oct | After 1 Oct | | | |
| | | | | | | | | Initial | Reorder | | | |
| 1 | Sikorsky Aircraft, Stratford CT | 18 | 96 | 150 | 22 | 1 | 8 | 3 | 6 | 9 | | |
| | | | | | | | 0 | 3 | 6 | 9 | | |
| | | | | | | | Initial | | | | | |
| | | | | | | | Reorder | | | | | |
| | | | | | | | Initial | | | | | |
| | | | | | | | Reorder | | | | | |
| | | | | | | | Initial | | | | | |
| | | | | | | | Reorder | | | | | |
| | | | | | | | Initial | | | | | |
| | | | | | | | Reorder | | | | | |

FY 11 / 12 BUDGET PRODUCTION SCHEDULE

P-1 ITEM NOMENCLATURE
UH-60 BLACK HAWK (MYP) (A05002)

Date: May 2009

| COST ELEMENTS | | | | | | Fiscal Year 11 | | | | | | | | | | | | Fiscal Year 12 | | | | | | | | | | | | | | | | | | | | |
|---------------|----|------|----------------|----------------------|---------------------|------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-------|--|--|--|--|--|--|--|--|
| MFR | FY | SERV | PROC QTY Units | ACCEP PRIOR TO 1 OCT | BAL DUE AS OF 1 OCT | Calendar Year 11 | | | | | | | | | | | | Calendar Year 12 | | | | | | | | | | | | Later | | | | | | | | |
| | | | | | | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | | | | | | | | | |
| Total | | | | | | 152 | 12 | 14 | 16 | 10 | 11 | 11 | 12 | 12 | 10 | 8 | 7 | 8 | 6 | 6 | 5 | 2 | 2 | | | | | | | | | | | | | | | |
| | | | | | | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | | | | | | | | | |

| MFR | Name - Location | PRODUCTION RATES | | | Reached D+ | MFR 1 | ADMIN LEAD TIME | | MFR After 1 Oct | TOTAL After 1 Oct | REMARKS | |
|-----|---------------------------------|------------------|-------|-----|------------|-------|-----------------|-------------|-----------------|-------------------|---------|--|
| | | MIN | 1-8-5 | MAX | | | Prior 1 Oct | After 1 Oct | | | | |
| 1 | Sikorsky Aircraft, Stratford CT | 18 | 96 | 150 | 22 | 1 | Initial | 8 | 3 | 6 | 9 | |
| | | | | | | | Reorder | 0 | 3 | 6 | 9 | |
| | | | | | | | Initial | | | | | |
| | | | | | | | Reorder | | | | | |
| | | | | | | | Initial | | | | | |
| | | | | | | | Reorder | | | | | |
| | | | | | | | Initial | | | | | |
| | | | | | | | Reorder | | | | | |

| | | | | | | |
|--|-------------|---------|--|---|-------------|----------------|
| Exhibit P-40, Budget Item Justification Sheet | | | | | | Date: May 2009 |
| Appropriation / Budget Activity / Serial No: Aircraft Procurement, Army / 1 / Aircraft | | | | P-1 Item Nomenclature UH-60 BLACKHAWK (MYP) (AA0005) | | |
| Program Elements for Code B Items: | | Code: | Other Related Program Elements: 0203744A/ Project 504 | | | |
| | Prior Years | FY 2008 | FY 2009 | FY 2010 | To Complete | Total Prog |
| Proc Qty | | | | | | |
| Gross Cost | | | | | | |
| Less PY Adv Proc | | | | | | |
| Plus CY Adv Proc | 2799.0 | 116.0 | 136.8 | 98.7 | | 3150.5 |
| Net Proc P1 | 2799.0 | 116.0 | 136.8 | 98.7 | | 3150.5 |
| Initial Spares | | | | | | |
| Total Proc Cost | 2799.0 | 116.0 | 136.8 | 98.7 | | 3150.5 |
| Flyaway U/C | | | | | | |
| Weapon System Proc U/C | | | | | | |
| Description: The Advance Procurement for the UH-60 BLACK HAWK contains funding for the airframe and engine contracts as well as funding for Government Furnished Equipment(GFE) to support the UH-60 aircraft and mission kit production. GFE (in addition to the engine) currently requiring advance procurement includes the Improved Hover Infrared Suppressor Subsystem (IHIRSS) as well as numerous communication, navigation, and Aircraft Survivability Equipment items procured by the Communications and Electronics Command (CECOM). | | | | | | |
| Justification: FY 2010 procures long lead and Economic Order Quantities (EOQ) items such as T700-GE-701D engines, IHIRSS and avionics components for the FY07-FY11 multiyear contract. | | | | | | |

| | | | |
|--|--------------------------|-------------------------------|----------|
| Advance Procurement Requirements Analysis-Funding (P-10A) | First System Award Date: | First System Completion Date: | Date: |
| | | | May 2009 |

| | |
|---|--|
| Appropriation / Budget Activity / Serial No: Aircraft Procurement, Army / 1 / Aircraft | P-1 Line Item Nomenclature / Weapon System: UH-60 BLACKHAWK (MYP) |
|---|--|

| | | (\$ in Millions) | | | | | | |
|----------------------------------|--------------|----------------------|---------------|--------------|--------------|-------------|---------------|---------------|
| | PLT (mos) | When Rqd (mos) | Pr Yrs | FY 08 | FY 09 | FY 10 | To Comp | Total |
| End Item Quantity | | | 1755.0 | 42.0 | 63.0 | 70.0 | 905.0 | 2835.0 |
| CFE Airframe | 18 | 6 | 1731.1 | 43.3 | 53.9 | 34.8 | 2476.9 | 4340.0 |
| Engines | 13 | 3 | 769.7 | 50.7 | 62.0 | 48.8 | 1166.9 | 2098.1 |
| Avionics | 0 | 3 | 140.8 | 10.7 | 11.8 | 8.5 | 188.7 | 360.5 |
| Auxiliary Power Unit | 6 | 3 | 49.8 | 4.5 | 3.3 | 2.4 | 52.8 | 112.8 |
| Armored Crew Seat | 6 | 3 | 23.4 | | | | | 23.4 |
| Hover Infrared Suppressor | 14 | 3 | 40.5 | 6.8 | 5.8 | 4.2 | 92.7 | 150.0 |
| Elastomeric Bearings | 10 | 3 | 1.5 | | | | | 1.5 |
| Miscellaneous | 0 | 3 | 42.2 | | | | | 42.2 |
| Total Advance Procurement | | | 2799.0 | 116.0 | 136.8 | 98.7 | 3978.0 | 7128.5 |

| | |
|--|----------------|
| Advance Procurement Requirements Analysis-Funding (P-10B) | Date: May 2009 |
|--|----------------|

| | |
|---|--|
| Appropriation / Budget Activity / Serial No: Aircraft Procurement, Army / 1 / Aircraft | P-1 Line Item Nomenclature / Weapon System: UH-60 BLACKHAWK (MYP) |
|---|--|

| | (\$ in Millions) | | | | | |
|----------------------------------|------------------|-----------------------------|--------------|-------|---------------------------|-----------------------|
| | PLT (mos) | Quantity Per Assembly | Unit Cost | 2010 | | |
| | | | | Qty | Contract Forecast Date | Total Cost Request |
| CFE Airframe | 18 | 1 | | 70.0 | | 33.5 |
| Engines | 13 | 2 | 702.0 | 140.0 | | 49.8 |
| Avionics | | | | | | 8.7 |
| Auxiliary Power Unit | 6 | 1 | 69.0 | 70.0 | | 2.4 |
| Hover Infrared Suppressor | 14 | 1 | 121.0 | 70.0 | | 4.3 |
| Total Advance Procurement | | | | | | 98.7 |

| Advance Procurement Requirements Analysis-Funding (P-10C) | | | | | | Date: |
|---|------------------|-------|--|-------|---------|-------|
| Appropriation / Budget Activity / Serial No: Aircraft Procurement, Army / 1 / Aircraft | | | P-1 Line Item Nomenclature / Weapon System: UH-60 BLACKHAWK (MYP) | | | |
| | (\$ in Millions) | | | | | |
| | Pr Yrs | FY 08 | FY 09 | FY 10 | To Comp | Total |
| Proposal w/o AP | | | | | | |
| Then Year Cost | 326 | 780 | 921 | 1068 | | 3095 |
| Constant Year Cost | 326 | 747 | 864 | 981 | | 2918 |
| Present Value | 288 | 692 | 776 | 855 | | 2611 |
| AP Proposal | | | | | | |
| Then Year Cost | 318 | 741 | 876 | 1019 | | 2954 |
| Constant Year Cost | 318 | 710 | 822 | 935 | | 2785 |
| Present Value | 282 | 658 | 739 | 815 | | 2494 |
| AP Savings (Difference) | | | | | | |
| Then Year Cost | -7 | -39 | -45 | -49 | | -140 |
| Constant Year Cost | -7 | -37 | -42 | -46 | | -132 |
| Present Value | -6 | -34 | -37 | -40 | | -117 |

| Advance Procurement Requirements Analysis-Execution (P-10D) | | | | | | | | | | | Date: May 2009 | | |
|---|--------------|------|------------------------------|----------------------------|--------------------------|--|------|------------------------------|----------------------------|--------------------------|----------------------------|------|------------------------------|
| Appropriation / Budget Activity / Serial No: Aircraft Procurement, Army / 1 / Aircraft | | | | | | P-1 Line Item Nomenclature / Weapon System: UH-60 BLACKHAWK (MYP) | | | | | | | |
| (\$ in Millions) | | | | | | | | | | | | | |
| | PLT (mos) | 2008 | | | | | 2009 | | | | | 2010 | |
| | | Qty | Contract Forecast Date | Actual Contract Date | Total Cost Request | Actual Contract Cost | Qty | Contract Forecast Date | Actual Contract Date | Total Cost Request | Actual Contract Cost | Qty | Contract Forecast Date |
| End Item Quantity | | | | | 42.0 | | 64 | | | 63.0 | | 70 | |
| CFE Airframe | 18 | 42 | Nov 2008 | | 43.3 | | 63 | | | 53.9 | | 70 | |
| Engines | 13 | 84 | Dec 2007 | | 50.7 | | 126 | | | 62.0 | | 140 | |
| Avionics | | | | | 10.7 | | | | | 11.8 | | | |
| Auxiliary Power Unit | 6 | 42 | Dec 2007 | | 4.5 | | 63 | | | 3.3 | | 70 | |
| Armored Crew Seat | 6 | | | | | | | | | | | | |
| Hover Infrared Suppressor | 14 | 42 | Dec 2007 | | 6.8 | | 63 | | | 5.8 | | 70 | |
| Elastomeric Bearings | 10 | | | | | | | | | | | | |
| Miscellaneous | | | | | | | | | | | | | |
| Total Advance Procurement | | | | | 116.0 | | | | | 136.8 | | | |

| | |
|--|----------------|
| Exhibit P-40, Budget Item Justification Sheet | Date: May 2009 |
|--|----------------|

| | |
|---|--|
| Appropriation / Budget Activity / Serial No: Aircraft Procurement, Army / 1 / Aircraft | P-1 Item Nomenclature CH-47 HELICOPTER (A05101) |
|---|--|

| | | |
|------------------------------------|-------|---|
| Program Elements for Code B Items: | Code: | Other Related Program Elements: SSN A05008, SSN A05105 |
|------------------------------------|-------|---|

| | Prior Years | FY 2008 | FY 2009 | FY 2010 | To Complete | Total Prog |
|------------------------|-------------|---------|---------|---------|-------------|------------|
| Proc Qty | | 6 | 20 | 31 | | 57 |
| Gross Cost | | 156.8 | 595.0 | 1001.3 | | 1753.1 |
| Less PY Adv Proc | | | 32.8 | | | 32.8 |
| Plus CY Adv Proc | | 32.8 | | 50.7 | | 83.4 |
| Net Proc P1 | | 189.6 | 562.2 | 1052.0 | | 1803.8 |
| Initial Spares | | | | | | |
| Total Proc Cost | | 189.6 | 562.2 | 1052.0 | | 1803.8 |
| Flyaway U/C | | | | | | |
| Weapon System Proc U/C | | 31.6 | 28.1 | 33.9 | | 93.6 |

Description:
The CH-47 Chinook is a twin-turbine, tandem-rotor, heavy-lift transport helicopter with a useful load of up to 25,000 pounds. As the Army's only heavy lift helicopter, the CH-47F Improved Cargo helicopter is an essential component of the Army Future Force. The mission of the CH-47 is to transport troops (including air assault), supplies, weapons, and other cargo in general support operations. The CH-47 is vital to Overseas Contingency Operations and Homeland Security needs of our nation. Secondary missions include medical evacuation, aircraft recovery, parachute drops, disaster relief, and search and rescue. These aircraft are fielded to heavy helicopter companies and Special Operations Aviation. The CH-47F is expected to remain the Army's heavy lift helicopter until at least the 2025 timeframe. The CH-47F Recapitalization Program will provide a more reliable, less costly to operate aircraft compatible with Joint digital connectivity requirements in the Future Force. Key product improvements integrate a new-machined airframe, a performance capability, Common Avionics Architecture System, Air Warrior, Common Missile Warning System, enhanced air transportability, digital Advance Flight Control System (AFCS) and an Extended Range Fuel System II for self-deployment missions. The CH-47F program extends the Army's Chinook fleets useful life 20 years incorporating reliability and maintainability improvements including airframe tuning for vibration reduction, corrosion protection, digital source collectors, Transportable Flight Proficiency Simulators, Cargo Floor Handling System, Ballistic Protection System, Transformation Sets, Kits and Outfits, Aviation Training Devices, M240 Window/Door Gun Mounts and an automated maintenance program with a 400-hour phase interval. The recapitalization program rebuilds and upgrades all CH-47Ds and 61 Special Operations Aviation MH-47s to the CH-47F/MH-47G configuration.

Justification:
FY 10 Base funding in the amount of \$860 million will procure 16 new build and 11 remanufactured aircraft.
FY 10 OCO funding in the amount of \$141 million will procure 4 new build aircraft.

| | | FY2008 | FY2009 | FY2010 |
|----------|------------|--------|--------|--------|
| Active | QTY | 6 | 16 | 27 |
| | Gross Cost | 190 | 442 | 911 |
| National | QTY | | 4 | |
| Guard | Gross Cost | | 120 | |

| | |
|--|----------------|
| Exhibit P-40, Budget Item Justification Sheet | Date: May 2009 |
|--|----------------|

| | |
|---|--|
| Appropriation / Budget Activity / Serial No: Aircraft Procurement, Army / 1 / Aircraft | P-1 Item Nomenclature CH-47 HELICOPTER (A05101) |
|---|--|

| | | |
|------------------------------------|-------|---|
| Program Elements for Code B Items: | Code: | Other Related Program Elements: SSN A05008, SSN A05105 |
|------------------------------------|-------|---|

OCO FY2010
Active QTY 4
Gross Cost 141

NOTE: A program review conducted subsequent to the data base lock indicated funding supports 20 ea in FY 09. However, there is no quantity discrepancy in FY09. These P Forms do not reflect an approved reprogramming (09-07PA).

Additionally the review indicated current funding supports 31 ea in FY 10. This revised program does not provide for a multiyear contract. Revised quantities are shown on these P-Forms. Once the FY 10 program has \$22 million either realigned or reprogrammed from the CH-47 modification line into the CH-47 procurement line, the multiyear contract will be restored.

| PROC | Qty | FY 2008 | Qty | FY 2009 | Qty | FY 2010 |
|-------|-----|---------|-----|---------|-----|---------|
| OSD | | | | | | |
| Base | 6 | 190 | 23 | 442 | 35 | 911 |
| Mods | 41 | 1197 | 23 | 728 | | |
| OCO | | | 4 | 120 | 4 | 141 |
| Total | 47 | 1387 | 50 | 1290 | 39 | 1052 |
| Army | | | | | | |
| Base | 6 | 190 | 16 | 442 | 27 | 911 |
| Mods | 41 | 1197 | 23 | 728 | | |
| OCO | | | 4 | 120 | 4 | 141 |
| Total | 47 | 1387 | 43 | 1290 | 31 | 1052 |
| Delta | | | -7 | | -8 | |

| Exhibit P-40, Budget Item Justification Sheet | | | | | | Date: |
|---|-------------|---------|---|---------|-------------|------------|
| Appropriation / Budget Activity / Serial No: Aircraft Procurement, Army / 1 / Aircraft | | | P-1 Item Nomenclature CH-47 NEW BUILD (A05008) | | | |
| Program Elements for Code B Items: | | Code: | Other Related Program Elements: SSN A05105 | | | |
| | Prior Years | FY 2008 | FY 2009 | FY 2010 | To Complete | Total Prog |
| Proc Qty | | 6 | 20 | 20 | | 46 |
| Gross Cost | | 156.8 | 595.0 | 706.0 | | 1457.8 |
| Less PY Adv Proc | | | 32.8 | | | 32.8 |
| Plus CY Adv Proc | | 32.8 | | | | 32.8 |
| Net Proc P1 | | 189.6 | 562.2 | 706.0 | | 1457.8 |
| Initial Spares | | | | | | |
| Total Proc Cost | | 189.6 | 562.2 | 706.0 | | 1457.8 |
| Flyaway U/C | | | | | | |
| Weapon System Proc U/C | | 31.6 | 29.7 | 35.3 | 77.5 | 174.1 |
| Description: The CH-47 Chinook is a twin-turbine, tandem-rotor, heavy lift transport helicopter with a useful load of up to 25,000 pounds. As the Army's only heavy lift helicopter, the CH-47F Improved Cargo helicopter is an essential component of the Army Future Force. The mission of the CH-47 is to transport troops (including air assault), supplies, weapons, and other cargo in general support operations. The CH-47 is vital to the Overseas Contingency Operations (OCO) and Homeland Security needs of our nation. Secondary missions include medical evacuation, aircraft recovery, parachute drops, disaster relief, and search and rescue. These aircraft are fielded to heavy helicopter companies and Special Operations Aviation. Key product improvements integrate a new-machined airframe, a performance capability, Common Avionics Architecture System, Air Warrior, Common Missile Warning System, enhanced air transportability, digital Advance Flight Control System (AFCS) and an Extended Range Fuel System II for self-deployment missions. The CH-47F is expected to remain the Army's heavy lift helicopter until at least the 2025 timeframe. This program is funded to meet the Army Aviation Transformation Plans full requirement for Chinook aircraft. New Build allows the Army to retain aircraft vice turn in for induction to rebuild. (Prior to FY08, "New Build" aircraft were funded on the CH-47 Cargo Helicopter Mod SSN AA0252; 3 ea and 6 ea for FYs 06 and 07, respectively.) | | | | | | |
| Justification: FY 10 Base funding in the amount of \$860 million will procure 16 new build. FY 10 OCO funding in the amount of \$141 million will procure 4 new build aircraft. | | | | | | |

| Exhibit P-5, Weapon ACFT Cost Analysis | | Appropriation/Budget Activity/Serial No: Aircraft Procurement, Army / 1 / Aircraft | | | P-1 Line Item Nomenclature: CH-47 NEW BUILD (A05008) | | | Weapon System Type: | | Date: May 2009 | |
|---|--|---|---------------------|-------------|---|---------------------|-------------|---------------------|---------------------|-------------------|--------------------|
| ACFT Cost Elements | | ID CD | FY 08 | | | FY 09 | | | FY 10 | | |
| | | | Total Cost \$000 | Qty Each | Unit Cost \$000 | Total Cost \$000 | Qty Each | Unit Cost \$000 | Total Cost \$000 | Qty Each | Unit Cost \$000 |
| AIRCRAFT Flyaway Costs | | | | | | | | | | | |
| Airframes/CFE | | | 119519 | 6 | 19920 | 474079 | 20 | 23704 | 513134 | 20 | 25657 |
| Engine/Accessories | | | 10882 | 12 | 907 | 43169 | 40 | 1079 | 37322 | 42 | 889 |
| CFE Avionics | | | 7232 | | | 24118 | | | 24266 | | |
| GFE | | | 7027 | | | 27875 | | | 24100 | | |
| ECO (Flyaway) | | | 2622 | | | 10318 | | | 10844 | | |
| Other Costs | | | 4154 | | | 2881 | | | 31736 | | |
| Support Costs | | | | | | | | | | | |
| PSE | | | 569 | | | 2470 | | | 1928 | | |
| Peculiar Training Equipment | | | 596 | | | 2557 | | | 490 | | |
| Publications/Tech Data | | | 111 | | | 483 | | | 565 | | |
| ECO (Support Items) | | | 122 | | | 532 | | | 416 | | |
| Other Costs | | | 3168 | | | 3159 | | | 58345 | | |
| Initial Spares | | | | | | | | | | | |
| Initial Spares | | | 839 | | | 3329 | | | 2878 | | |
| Subtotal Support Costs | | | 156841 | | | 594970 | | | 706024 | | |
| Advance Procurement | | | 32759 | | | -32759 | | | | | |
| Total: | | | 189600 | | | 562211 | | | 706024 | | |

Exhibit P-5a, Budget Procurement History and Planning

Date:
May 2009

| Appropriation/Budget Activity/Serial No: Aircraft Procurement, Army/ 1/ Aircraft | | Weapon System Type: | P-1 Line Item Nomenclature: CH-47 NEW BUILD (A05008) | | | | | | | |
|---|---------------------------------------|--------------------------|---|------------|------------------------|----------|-----------------|------------------|------------------|----------------|
| WBS Cost Elements: | Contractor and Location | Contract Method and Type | Location of PCO | Award Date | Date of First Delivery | QTY Each | Unit Cost \$000 | Specs Avail Now? | Date Revsn Avail | RFP Issue Date |
| Airframes/CFE | | | | | | | | | | |
| FY 2008 | The Boeing Company Ridley Park, PA | SS/FFP | AMCOM | Aug 08 | Jan 11 | 6 | 19920 | YES | | Apr 07 |
| FY 2009 | The Boeing Company Ridley Park, PA | SS/FFP | AMCOM | Jan 09 | Apr 11 | 20 | 23704 | YES | | Apr 07 |
| FY 2010 | The Boeing Company Ridley Park, PA | SS/FFP | AMCOM | Jan 10 | Jun 12 | 20 | 25657 | YES | | Apr 07 |

REMARKS:

| | | | | | | |
|---|-------------|---------|---|--|-------------|----------------|
| Exhibit P-40, Budget Item Justification Sheet | | | | | | Date: May 2009 |
| Appropriation / Budget Activity / Serial No: Aircraft Procurement, Army / 1 / Aircraft | | | | P-1 Item Nomenclature CH-47 SLEP (A05105) | | |
| Program Elements for Code B Items: | | Code: | Other Related Program Elements: SSN A05008 | | | |
| | Prior Years | FY 2008 | FY 2009 | FY 2010 | To Complete | Total Prog |
| Proc Qty | | | | 11 | | 11 |
| Gross Cost | | | | 295.3 | | 295.3 |
| Less PY Adv Proc | | | | | | |
| Plus CY Adv Proc | | | | 50.7 | | 50.7 |
| Net Proc P1 | | | | 345.9 | | 345.9 |
| Initial Spares | | | | | | |
| Total Proc Cost | | | | 345.9 | | 345.9 |
| Flyaway U/C | | | | | | |
| Weapon System Proc U/C | | | | 31.4 | | 31.4 |
| Description: The CH-47 Chinook is a twin-turbine, tandem-rotor, heavy lift transport helicopter with a useful load of up to 25,000 pounds. As the Army's only heavy lift helicopter, the mission of the CH-47 is to transport troops (including air assault), supplies, weapons, and other cargo in general support operations. The CH-47 is vital to the Overseas Contingency Operations (OCO) and Homeland Security needs of our nation. Secondary missions include medical evacuation, aircraft recovery, parachute drops, disaster relief, and search and rescue. These aircraft are fielded to heavy helicopter companies and Special Operations Aviation. The CH-47F is expected to remain the Army's heavy lift helicopter until at least the 2025 timeframe. The CH-47F Recapitalization Program will provide a more reliable, less costly to operate aircraft compatible with Joint digital connectivity requirements in the Future Force. The Recapitalization Program produces an identical aircraft as the CH-47F New Build Program with the exception of dynamic components including engine, transmission and drive train. During production, the aircraft receives a new airframe, cockpit, wiring and plumbing. All dynamic components are recapitalized by the Original Equipment Manufacturer (OEM) and returned for incorporation during the assembly process. The Recapitalization Program rebuilds and upgrades all CH-47Ds and 61 Special Operations Aviation MH-47s to the CH-47F and MH-47G configuration. This program is funded to meet the Army Aviation Transformation Plans full requirement for Chinook aircraft. (Prior to FY10, this program was funded on the CH-47 Cargo Helicopters Mod SSN AA0252). | | | | | | |
| Justification: FY 2010 base funding procures conversion of 11 CH-47Ds to CH-47Fs. | | | | | | |

| | | | | | | | |
|---|----------------|--------------|---------|--|-------|---|--|
| Exhibit P-40M, Budget Item Justification Sheet | | | | | | Date: May 2009 | |
| Appropriation / Budget Activity / Serial No: Aircraft Procurement, Army / 1 / Aircraft | | | | P-1 Item Nomenclature CH-47 SLEP (A05105) | | | |
| Program Elements for Code B Items: | | | | | Code: | Other Related Program Elements: SSN A05008 | |
| Description | | Fiscal Years | | | | | |
| OSIP No. | Classification | 2008 & PR | FY 2009 | FY 2010 | TC | Total | |
| Ch-47 D to F Conversion | | | | | | | |
| 0-00-00-0000 | Operational | 0.0 | 0.0 | 345.9 | 0.0 | 345.9 | |
| Totals | | 0.0 | 0.0 | 345.9 | 0.0 | 345.9 | |

INDIVIDUAL MODIFICATION

Date: May 2009

MODIFICATION TITLE: Ch-47 D to F Conversion [MOD 1] 0-00-00-0000

MODELS OF SYSTEM AFFECTED: CH-47D/F

DESCRIPTION / JUSTIFICATION:

DEVELOPMENT STATUS / MAJOR DEVELOPMENT MILESTONE(S):

LRIP I Contract Award - Dec 02

MS III Production Decision - Nov 04

FRP Contract Award - Dec 04

Installation Schedule

| | Pr Yr Totals | FY 2009 | | | | FY 2010 | | | | FY 2011 | | | | FY 2012 | | | | FY 2013 | | | | |
|---------|-----------------|---------|---|---|---|---------|---|---|---|---------|---|---|---|---------|---|---|---|---------|---|---|---|--|
| | | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 | |
| Inputs | | | | | | | | | | | | | | | | | | | | | | |
| Outputs | | | | | | | | | | | | | | | | | | | | | | |

| | FY 2014 | | | | FY 2015 | | | | FY 2016 | | | | FY 2017 | | | | To Complete | Totals | | | | |
|---------|---------|---|---|---|---------|---|---|---|---------|---|---|---|---------|---|---|---|----------------|--------|--|--|--|--|
| | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 | | | | | | |
| Inputs | | | | | | | | | | | | | | | | | | | | | | |
| Outputs | | | | | | | | | | | | | | | | | | | | | | |

METHOD OF IMPLEMENTATION: Contract ADMINISTRATIVE LEADTIME: 5 months PRODUCTION LEADTIME: 25 months

Contract Dates: FY 2010 - Mar 10 FY 2011 - Jan 11 FY 2012 -

Delivery Dates: FY 2010 - Apr 12 FY 2011 - Feb 13 FY 2012 -

INDIVIDUAL MODIFICATION

Date: May 2009

MODIFICATION TITLE (cont): Ch-47 D to F Conversion [MOD 1] 0-00-00-0000

FINANCIAL PLAN: (\$ in Millions)

| | FY 2008 and Prior | | 2009 | | 2010 | | TC | | Total | |
|---------------------------------|----------------------|-----|------|-----|------|-------|-----|-----|-------|-------|
| | Qty | \$ | Qty | \$ | Qty | \$ | Qty | \$ | Qty | \$ |
| | RDT&E | | | | | | | | | |
| Procurement | | | | | | | | | | |
| Recurring Production (Suppl) | | | | | | | | | | |
| Recurring Production (Mods) | | | | | 11 | 267.1 | | | 11 | 267.1 |
| Recurring Production (New | | | | | | | | | | |
| Build) | | | | | | | | | | |
| Recurring (New Build NG) | | | | | | | | | | |
| Omnibus | | | | | | | | | | |
| Other Flyaway | | | | | | 14.2 | | | | 14.2 |
| Other Support | | | | | | 33.6 | | | | 33.6 |
| Training | | | | | | 28.2 | | | | 28.2 |
| Support Equipment | | | | | | 2.8 | | | | 2.8 |
| Installation of Hardware | | | | | | | | | | |
| FY 2008 & Prior Equip -- Kits | | | | | | | | | | |
| FY 2009 -- Kits | | | | | | | | | | |
| FY 2010 Equip -- Kits | | | | | | | | | | |
| FY 2011 Equip -- Kits | | | | | | | | | | |
| FY 2012 Equip -- Kits | | | | | | | | | | |
| FY 2013 Equip -- Kits | | | | | | | | | | |
| FY 2014 Equip -- Kits | | | | | | | | | | |
| FY 2015 Equip -- Kits | | | | | | | | | | |
| TC Equip- Kits | | | | | | | | | | |
| Total Installment | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 |
| Total Procurement Cost | | 0.0 | | 0.0 | | 345.9 | | 0.0 | | 345.9 |

| | | | | | | |
|--|-------------|---------|---|--|-------------|----------------|
| Exhibit P-40, Budget Item Justification Sheet | | | | | | Date: May 2009 |
| Appropriation / Budget Activity / Serial No: Aircraft Procurement, Army / 1 / Aircraft | | | | P-1 Item Nomenclature CH-47 HELICOPTER (A05101) | | |
| Program Elements for Code B Items: | | Code: | Other Related Program Elements: SSN A05008, SSN A05105 | | | |
| | Prior Years | FY 2008 | FY 2009 | FY 2010 | To Complete | Total Prog |
| Proc Qty | | | | | | |
| Gross Cost | | | | | | |
| Less PY Adv Proc | | | | | | |
| Plus CY Adv Proc | | 32.8 | | 50.7 | | 83.4 |
| Net Proc P1 | | 32.8 | | 50.7 | | 83.4 |
| Initial Spares | | | | | | |
| Total Proc Cost | | 32.8 | | 50.7 | | 83.4 |
| Flyaway U/C | | | | | | |
| Weapon System Proc U/C | | | | | | |
| Description: The CH-47 Chinook is a twin-turbine, tandem-rotor, heavy-lift transport helicopter with a useful load of up to 25,000 pounds. The CH-47F Improved Cargo Helicopter is an essential component of the Army Future Force. The CH-47F program fills the Army's Aviation Transformation Chinook requirement. Key product improvements integrate the CH-47F Common Avionics Architecture System (CAAS) digital cockpit which will provide future growth potential to meet the Net-Ready Key Performance Parameters (KPPs) and also includes a digital data bus that permits installation of enhanced communication and navigation equipment for improved situational awareness, mission performance, and survivability. The new digital cockpit incorporates all new airframe components and modifies the aircraft to reduce vibration. New airframe structural components and modifications will reduce harmful vibrations, improving operation and support (O&S) efficiency and crew endurance. Other airframe modifications reduce by 60 percent the time required for aircraft tear down and build-up after C-5/C-17 deployment. These modifications significantly enhance the Chinook's strategic deployment capability. | | | | | | |
| Justification: FY 2010 funding procures long lead time parts and materials required to preserve the production delivery schedule. | | | | | | |

| | | | |
|--|--------------------------|-------------------------------|----------|
| Advance Procurement Requirements Analysis-Funding (P-10A) | First System Award Date: | First System Completion Date: | Date: |
| | | | May 2009 |

| | |
|---|---|
| Appropriation / Budget Activity / Serial No: Aircraft Procurement, Army / 1 / Aircraft | P-1 Line Item Nomenclature / Weapon System: CH-47 HELICOPTER |
|---|---|

| | | (\$ in Millions) | | | | | | |
|----------------------------------|--------------|----------------------|------------|-------------|------------|-------------|------------|-------------|
| | PLT (mos) | When Rqd (mos) | Pr Yrs | FY 08 | FY 09 | FY 10 | To Comp | Total |
| End Item Quantity | | | | | | | | |
| Avionics | 13 | 14 | | 13.1 | | 20.3 | | 33.4 |
| Airframe | 15 | 16 | | 19.7 | | 30.4 | | 50.1 |
| Total Advance Procurement | | | 0.0 | 32.8 | 0.0 | 50.7 | 0.0 | 83.5 |

| | |
|--|----------------|
| Advance Procurement Requirements Analysis-Funding (P-10B) | Date: May 2009 |
|--|----------------|

| | |
|---|---|
| Appropriation / Budget Activity / Serial No: Aircraft Procurement, Army / 1 / Aircraft | P-1 Line Item Nomenclature / Weapon System: CH-47 HELICOPTER |
|---|---|

| | (\$ in Millions) | | | | | |
|----------------------------------|------------------|-----------------------------|--------------|------|---------------------------|-----------------------|
| | PLT (mos) | Quantity Per Assembly | Unit Cost | 2010 | | |
| | | | | Qty | Contract Forecast Date | Total Cost Request |
| Avionics | 13 | 1 | 1.0 | | | 20.3 |
| Airframe | 15 | 1 | 1.0 | | | 30.4 |
| Total Advance Procurement | | | | | | 50.7 |

| | |
|--|----------------|
| Advance Procurement Requirements Analysis-Funding (P-10C) | Date: May 2009 |
|--|----------------|

| | |
|---|---|
| Appropriation / Budget Activity / Serial No: Aircraft Procurement, Army / 1 / Aircraft | P-1 Line Item Nomenclature / Weapon System: CH-47 HELICOPTER |
|---|---|

| (\$ in Millions) | | | | | | |
|--------------------------------|--------|-------|-------|-------|---------|-------|
| | Pr Yrs | FY 08 | FY 09 | FY 10 | To Comp | Total |
| Proposal w/o AP | | | | | | |
| Then Year Cost | | 149 | | 539 | | 688 |
| Constant Year Cost | | 145 | | 525 | | 670 |
| Present Value | | 144 | | 499 | | 643 |
| AP Proposal | | | | | | |
| Then Year Cost | | 143 | | 484 | | 627 |
| Constant Year Cost | | 140 | | 471 | | 611 |
| Present Value | | 138 | | 448 | | 586 |
| AP Savings (Difference) | | | | | | |
| Then Year Cost | | -6 | | -55 | | -61 |
| Constant Year Cost | | -5 | | -54 | | -59 |
| Present Value | | -6 | | -51 | | -57 |

Constant Year Dollars are Fiscal Year 2005.

| | |
|--|----------------|
| Advance Procurement Requirements Analysis-Execution (P-10D) | Date: May 2009 |
|--|----------------|

| | |
|---|---|
| Appropriation / Budget Activity / Serial No: Aircraft Procurement, Army / 1 / Aircraft | P-1 Line Item Nomenclature / Weapon System: CH-47 HELICOPTER |
|---|---|

| | | (\$ in Millions) | | | | | | | | | | | |
|----------------------------------|-----------|------------------|------------------------|----------------------|--------------------|----------------------|------|------------------------|----------------------|--------------------|----------------------|------|------------------------|
| | | 2008 | | | | | 2009 | | | | | 2010 | |
| | PLT (mos) | Qty | Contract Forecast Date | Actual Contract Date | Total Cost Request | Actual Contract Cost | Qty | Contract Forecast Date | Actual Contract Date | Total Cost Request | Actual Contract Cost | Qty | Contract Forecast Date |
| End Item Quantity | | | | | | | | | | | | | |
| Avionics | | 13 | 23 | Mar 08 | Aug 08 | 13.1 | | | | | | | |
| Airframe | | 15 | 23 | Mar 08 | Aug 08 | 19.7 | | | | | | | |
| Total Advance Procurement | | | | | | 32.8 | | | | | | | |

| | | | | | | |
|--|-------------|---------|---------------------------------|---|-------------|----------------|
| Exhibit P-40, Budget Item Justification Sheet | | | | | | Date: May 2009 |
| Appropriation / Budget Activity / Serial No: Aircraft Procurement, Army / 1 / Aircraft | | | | P-1 Item Nomenclature HELICOPTER NEW TRAINING (A06500) | | |
| Program Elements for Code B Items: | | Code: | Other Related Program Elements: | | | |
| | Prior Years | FY 2008 | FY 2009 | FY 2010 | To Complete | Total Prog |
| Proc Qty | 183 | | 1 | | | 184 |
| Gross Cost | 189.7 | | 2.4 | 19.6 | | 211.7 |
| Less PY Adv Proc | | | | | | |
| Plus CY Adv Proc | | | | | | |
| Net Proc P1 | 189.7 | | 2.4 | 19.6 | | 211.7 |
| Initial Spares | | | | | | |
| Total Proc Cost | 189.7 | | 2.4 | 19.6 | | 211.7 |
| Flyaway U/C | | | | | | |
| Weapon System Proc U/C | | | | | | |
| Description: The TH-67 Creek is a non-developmental commercial, three-seated, single engine, training helicopter with two main rotor blades. It is a variant of the Bell Helicopter Textron, Incorporated 206B-3 helicopter. It is used exclusively at the U.S. Army Aviation Center, Fort Rucker, AL, for Initial Entry Rotor Wing (IERW) training and is being considered for use by the Combined Training Centers. A mix of aircraft with Visual Flight Rules (VFR) and Instrument Flight Rules (IFR) are used. The VFR version is ideal for early stages of flight school because it is lighter, simpler, and less sensitive to the harsher flight maneuvering generated during the students' primary training. The IFR is equipped for the more advanced instrument phase and is more complex and heavier, but does not undergo the harsher primary flight maneuvering generated in earlier training phases. An enhanced configuration of the VFR is a third design which offers a training environment for the acquisition of basic navigation/night/night vision goggles skills. All versions of the aircraft are designed to provide safe, effective and economical in-flight training when used to demonstrate and practice basic helicopter pilot skills. The enhancements in the latest production models permit training in combat skills. | | | | | | |
| Justification: FY 10 supports a classified program. | | | | | | |

| | | | | | | |
|--|-------------|---------|---------------------------------|---|-------------|-------------------|
| Exhibit P-40, Budget Item Justification Sheet | | | | | | Date: May 2009 |
| Appropriation / Budget Activity / Serial No: Aircraft Procurement, Army / 2 / Modification of aircraft | | | | P-1 Item Nomenclature PAYLOAD - UAS (A00020) | | |
| Program Elements for Code B Items: | | Code: | Other Related Program Elements: | | | |
| | Prior Years | FY 2008 | FY 2009 | FY 2010 | To Complete | Total Prog |
| Proc Qty | | | | | | |
| Gross Cost | | | | 87.4 | | 87.4 |
| Less PY Adv Proc | | | | | | |
| Plus CY Adv Proc | | | | | | |
| Net Proc P1 | | | | 87.4 | | 87.4 |
| Initial Spares | | | | | | |
| Total Proc Cost | | | | 87.4 | | 87.4 |
| Flyaway U/C | | | | | | |
| Weapon System Proc U/C | | | | | | |
| Description: Advanced Tactical Unmanned Aerial Vehicles (UAVs) Payloads (A00020) budget line supports the procurement of the following payload systems: (1) Synthetic Aperture Radar/Ground Moving Target Indicator (SAR/GMTI), (2) Electro Optical Infrared w/Laser Designator (EO/IR/LD) Common Sensor Payload (CSP) AN/AAS-53, and (3) Tactical Signals Intelligence (SIGINT) Payload (TSP). The SAR/GMTI is a multi-mode radar that provides an all-weather, wide-area search capability with a built-in imaging mode for increased situational awareness. The SAR/GMTI payload is a complementary system to the Army's Future Combat System (FCS) and is a vital component necessary to support the Extended Range/Multi-Purpose (ER/MP) Unmanned Aerial Vehicle (UAV). The EO/IR/LD payload provides a day/night capability to collect and display continuous imagery with the ability to designate targets of interest for attack by laser guided precision weapons. The Enhanced Tactical Signals Intelligence (SIGINT) Payload (ETSP) is the second increment of an Unmanned Aerial System (UAS) mounted SIGINT sensor that detects radio frequency (RF) emitters. ETSP, through handoff from the Combat Aviation Brigade (CAB), is capable of providing the Brigade Combat Team (BCT) Land Commander with an overwatch and penetrating SIGINT system capable of detecting, identifying, locating, and providing geolocation information on RF emitters throughout the Area of Operations (AO). | | | | | | |
| Justification: The FY10 base funding in the amount of \$87 million requested to procure 22 SAR/GMTI and 22 EO/IR/LD CSP payloads in support of the fielding schedule for the ERMP UAV to 2nd & 3rd unit equipped (UE). In addition, the procurement of 5 ETSP payloads to support the fielding schedule of the ERMP UAS (TSP is \$14 million). | | | | | | |

| Exhibit P-5, Weapon ACFT Cost Analysis | | Appropriation/Budget Activity/Serial No: Aircraft Procurement, Army / 2 / Modification of aircraft | | | P-1 Line Item Nomenclature: PAYLOAD - UAS (A00020) | | | Weapon System Type: | | Date: May 2009 | |
|--|--|---|--------------|------|---|--------------|------|---------------------|--------------|-------------------|-----------|
| ACFT Cost Elements | | ID CD | FY 08 | | | FY 09 | | | FY 10 | | |
| | | | Total Cost | Qty | Unit Cost | Total Cost | Qty | Unit Cost | Total Cost | Qty | Unit Cost |
| | | | \$000 | Each | \$000 | \$000 | Each | \$000 | \$000 | Each | \$000 |
| Common Sensor Payload (EO/IR/LD) | | | | | | | | | | | |
| Hardware Contract (EO/IR/LD) | | | | | | | | | 16948 | 22 | 770 |
| PMO Support | | | | | | | | | 3125 | | |
| Program Management/ Engineering Support | | | | | | | | | 1500 | | |
| Engineering Changes | | | | | | | | | 3379 | | |
| System Test & Eval | | | | | | | | | 2091 | | |
| Initial Spares | | | | | | | | | 3749 | | |
| Interim Contractor Support | | | | | | | | | 5286 | | |
| Other | | | | | | | | | 219 | | |
| SAR/GMTI Production | | | | | | | | | | | |
| Hardware Contract (SAR/GMTI) | | | | | | | | | 17332 | 22 | 788 |
| PMO Support | | | | | | | | | 3125 | | |
| Program Management/ Engineering Support | | | | | | | | | 1500 | | |
| Engineering Changes | | | | | | | | | 3500 | | |
| System Test & Eval | | | | | | | | | 1800 | | |
| Initial Spares | | | | | | | | | 3473 | | |
| Interim Contractor Support | | | | | | | | | 5550 | | |
| Other | | | | | | | | | 15 | | |
| Enhanced Tactical SIGINT Payload (ETSP) | | | | | | | | | | | |
| Hardware Contract (SIGINT ETSP) | | | | | | | | | 7830 | 5 | 1566 |
| Program Management/ Engineering Support | | | | | | | | | 1470 | | |
| Engineering Changes | | | | | | | | | 150 | | |
| System Test & Eval | | | | | | | | | 1820 | | |
| Initial Spares | | | | | | | | | 2472 | | |
| Training | | | | | | | | | 210 | | |
| Data | | | | | | | | | 490 | | |
| Other | | | | | | | | | 390 | | |
| Total: | | | | | | | | | 87424 | | |

Exhibit P-5a, Budget Procurement History and Planning

Date:
May 2009

| Appropriation/Budget Activity/Serial No: Aircraft Procurement, Army/ 2/ Modification of aircraft | Weapon System Type: | P-1 Line Item Nomenclature: PAYLOAD - UAS (A00020) | | | | | | | | |
|---|-----------------------------------|---|-----------------|------------|------------------------|----------|-----------------|------------------|------------------|----------------|
| WBS Cost Elements: | Contractor and Location | Contract Method and Type | Location of PCO | Award Date | Date of First Delivery | QTY Each | Unit Cost \$000 | Specs Avail Now? | Date Revsn Avail | RFP Issue Date |
| Hardware Contract (EO/IR/LD) FY 2010 | Raytheon McKinney, TX | FFP | CECOM | Dec 09 | Dec 10 | 22 | 770 | Y | | |
| Hardware Contract (SAR/GMTI) FY 2010 | Northrop Grumman Linthicum, MD | FFP | CECOM | Dec 09 | Dec 10 | 22 | 788 | Y | | |
| Hardware Contract (SIGINT ETSP) FY 2010 | TBS TBS | FFP | TBS | Sep 10 | Mar 11 | 5 | 1566 | N | | |

REMARKS:

| FY 11 / 12 BUDGET PRODUCTION SCHEDULE | | | | | | | | | | | | | | | | P-1 ITEM NOMENCLATURE PAYLOAD - UAS (A00020) | | | | | | | | | | | | Date: May 2009 | | | | | | | | | | |
|---------------------------------------|-------|------------------|---------------------|-------------------------------|------------------------------|------------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|---|-------------|-------------|-------------|------------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------------|-------------|--|--|--|--|-------|--|---|---|--|
| COST ELEMENTS | | | | | | Fiscal Year 11 | | | | | | | | | | | | | | Fiscal Year 12 | | | | | | | | | | | | | | Later | | | | |
| M F R | FY | S E R V | PROC QTY Each | ACCEP PRIOR TO 1 OCT | BAL DUE AS OF 1 OCT | Calendar Year 11 | | | | | | | | | | | | | | Calendar Year 12 | | | | | | | | | | | | | | | | | | |
| | | | | | | O C T | N O V | D E C | J A N | F E B | M A R | A P R | M A Y | J U N | J U L | A U G | S E P | O C T | N O V | D E C | J A N | F E B | M A R | A P R | M A Y | J U N | J U L | A U G | S E P | | | | | | | | | |
| Hardware Contract (EO/IR/LD) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | FY 10 | A | 22 | 0 | 22 | | | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | | | | | | | | | | | | | | | | | | 0 | |
| Hardware Contract (SAR/GMTI) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | FY 10 | A | 22 | 0 | 22 | | | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | | | | | | | | | | | | | | | | | | 0 | |
| Hardware Contract (SIGINT ETSP) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3 | FY 10 | A | 5 | 0 | 5 | | | | | | 1 | 1 | 1 | 1 | 1 | | | | | | | | | | | | | | | | | | | | | 0 | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Total | | | | | 49 | | | 4 | 4 | 4 | 5 | 5 | 5 | 5 | 5 | 5 | 4 | 4 | 4 | | | | | | | | | | | | | | | | | | | |
| | | | | | | O C T | N O V | D E C | J A N | F E B | M A R | A P R | M A Y | J U N | J U L | A U G | S E P | O C T | N O V | D E C | J A N | F E B | M A R | A P R | M A Y | J U N | J U L | A U G | S E P | | | | | | | | | |

| M F R | Name - Location | PRODUCTION RATES | | | Reached D+ | MFR | ADMIN LEAD TIME | | MFR After 1 Oct | TOTAL After 1 Oct | REMARKS |
|-------------|---------------------------------|------------------|-------|-----|---------------|-----|-----------------|-------------|--------------------|----------------------|---------|
| | | MIN | 1-8-5 | MAX | | | Prior 1 Oct | After 1 Oct | | | |
| 1 | Raytheon, McKinney, TX | 12 | 22 | 125 | | 1 | Initial | 0 | 9 | 3 | 12 |
| | | | | | | | Reorder | 0 | 0 | 0 | 0 |
| 2 | Northrop Grumman, Linthicum, MD | 12 | 22 | 35 | | 2 | Initial | 0 | 9 | 3 | 12 |
| | | | | | | | Reorder | 0 | 0 | 0 | 0 |
| 3 | TBS, TBS | 12 | 36 | 72 | | 3 | Initial | 0 | 2 | 4 | 6 |
| | | | | | | | Reorder | 0 | 6 | 6 | 12 |
| | | | | | | | Initial | | | | |
| | | | | | | | Reorder | | | | |
| | | | | | | | Initial | | | | |
| | | | | | | | Reorder | | | | |

| | | | | | | |
|--|-------------|---------|---------------------------------|---|-------------|----------------|
| Exhibit P-40, Budget Item Justification Sheet | | | | | | Date: May 2009 |
| Appropriation / Budget Activity / Serial No: Aircraft Procurement, Army / 2 / Modification of aircraft | | | | P-1 Item Nomenclature WEAPONIZATION - UAS (A00025) | | |
| Program Elements for Code B Items: | | Code: | Other Related Program Elements: | | | |
| | Prior Years | FY 2008 | FY 2009 | FY 2010 | To Complete | Total Prog |
| Proc Qty | | | | | | |
| Gross Cost | | | | 14.8 | | 14.8 |
| Less PY Adv Proc | | | | | | |
| Plus CY Adv Proc | | | | | | |
| Net Proc P1 | | | | 14.8 | | 14.8 |
| Initial Spares | | | | | | |
| Total Proc Cost | | | | 14.8 | | 14.8 |
| Flyaway U/C | | | | | | |
| Weapon System Proc U/C | | | | | | |
| <p>Description: FY2010 fund weaponization capabilities of Unmanned Aircraft Systems (UAS) such as the Extended Range Multi-Purpose (ERMP) UAS. Effort includes procurement of launchers, cables and rails from PM JAMS and all other government support required for full scale integration.</p> <p>Justification: FY2010 procures hardware for UAS weaponization such as launchers, installation and support kits, and includes all aspects of government and contractor support required to support unique UAS mission profiles.</p> | | | | | | |

| Exhibit P-5, Weapon ACFT Cost Analysis | | Appropriation/Budget Activity/Serial No: Aircraft Procurement, Army / 2 / Modification of aircraft | | | P-1 Line Item Nomenclature: WEAPONIZATION - UAS (A00025) | | | Weapon System Type: | | Date: May 2009 | |
|---|--|---|--------------|------|---|--------------|------|---------------------|--------------|-------------------|-----------|
| ACFT Cost Elements | | ID CD | FY 08 | | | FY 09 | | | FY 10 | | |
| | | | Total Cost | Qty | Unit Cost | Total Cost | Qty | Unit Cost | Total Cost | Qty | Unit Cost |
| | | | \$000 | Each | \$000 | \$000 | Each | \$000 | \$000 | Each | \$000 |
| WEAPONIZATION - UAS | | | | | | | | | | | |
| Weaponization Effort - OGA | | | | | | | | | 14832 | | |
| Total Government | | | | | | | | | 14832 | | |
| Total: | | | | | | | | | 14832 | | |

| | | | | | | |
|---|-------------|---------|---------------------------------|--|-------------|----------------|
| Exhibit P-40, Budget Item Justification Sheet | | | | | | Date: May 2009 |
| Appropriation / Budget Activity / Serial No: Aircraft Procurement, Army / 2 / Modification of aircraft | | | | P-1 Item Nomenclature GUARDRAIL MODS (MIP) (AZ2000) | | |
| Program Elements for Code B Items: | | Code: | Other Related Program Elements: | | | |
| | Prior Years | FY 2008 | FY 2009 | FY 2010 | To Complete | Total Prog |
| Proc Qty | | | | | | |
| Gross Cost | | 178.5 | 147.7 | 111.7 | | 437.9 |
| Less PY Adv Proc | | | | | | |
| Plus CY Adv Proc | | | | | | |
| Net Proc P1 | | 178.5 | 147.7 | 111.7 | | 437.9 |
| Initial Spares | | | | | | |
| Total Proc Cost | | 178.5 | 147.7 | 111.7 | | 437.9 |
| Flyaway U/C | | | | | | |
| Weapon System Proc U/C | | | | | | |
| Description: | | | | | | |
| <p>- Guardrail Common Sensor (GRCS) is an Airborne Signal Intercept Location System designed to provide tactical commanders with critical information via Common Data Link (CDL) connectivity with the Guardrail Ground Base (GGB) Station, which then provides information in Near Real Time (NRT) via NSA Net connectivity to Intel users such as Distributed Common Ground Station-Army (DCGS-A) and Common Ground Station (CGS). The Army's GR/CS System provides a flexible architecture to allow rapid deployment to support contingency operations, and is designed to support field commanders until Aerial Common Sensor (ACS) is fielded.</p> <p>- The GRCS integrates Communications Intelligence (COMINT), the Communications High Accuracy Airborne Location System (CHAALS/CHALS-X) for COMINT precision emitter locations, the Advanced QUICKLOOK (AQL) for Electronics Intelligence (ELINT) precision emitter location, and the Guardian Eagle technical insertion payload into a single signal intelligence (SIGINT) system. The airborne elements are integrated into the RC-12H/K/N/P Aircraft. Ground processing is conducted in the Surveillance Information Processing Center, commonly referred to as the Guardrail Ground Base (GGB). Key performance requirements include a real-time COMINT and ELINT collection and high accuracy target location capability in communications and radar frequencies. The Tactical Common Data Link (TCDL) connects the airborne elements and the ground processing element. A satellite remote relay supports rapid deployment, minimum footprint forward, and remote signal processing capability. GR/CS Guardian Eagle (GE) payloads were provided to enhance GR/CS ability to process non-traditional signals, providing intercept of military communication emitters, and modern communication devices. The Guardian Eagle is software upgradeable and has an open architecture that leverages National and Services Military Intelligence Program (MIP) investments for future GR/CS upgrades. This capability supports ongoing Deployments in Operation Iraqi Freedom (OIF), Operation Enduring Freedom (OEF), and Overseas Contingency Operations (OCO). GR/CS contributes directly to the success of Army Modernization by serving as an operational platform for verification of new or improved technologies.</p> | | | | | | |
| Justification: | | | | | | |
| <p>FY 10 Base Funding in the amount of \$61 million will provide the following capabilities for GR/CS: An Enhanced precision geo-location subsystem "Communication High Accuracy Location System-Compact (CHALS-C)", a greatly improved COMINT Infrastructure and Core COMINT Subsystem "Enhanced Situational Awareness (ESA)"; continuation of increased capability for modern signals "High Band COMINT (HBC)" subsystem; initial production of X-Midas V3 for "Special Signals (SS)" to enhance interception; and continuation of "Electronic Intelligence (ELINT)".</p> <p>FY 10 OCO Funding in the amount of \$50 million will procure from NSA the Advanced Precision Geolocation (APG) subsystem to collect modern OCO threat signals; and additional ESA, HBC and SS B-Kits. These modifications provide critical upgrade capability to collect insurgent threats in support of current OIF/OEF operations.</p> | | | | | | |

| Exhibit P-40M, Budget Item Justification Sheet | | | | | | Date: |
|---|----------------|--------------|--|---------|---------------------------------|-------|
| Appropriation / Budget Activity / Serial No: Aircraft Procurement, Army / 2 / Modification of aircraft | | | P-1 Item Nomenclature GUARDRAIL MODS (MIP) (AZ2000) | | | |
| Program Elements for Code B Items: | | | | Code: | Other Related Program Elements: | |
| Description | | Fiscal Years | | | | |
| OSIP No. | Classification | 2008 & PR | FY 2009 | FY 2010 | TC | Total |
| Comm High Accuracy Location Sys-Compact (CHALS-C) | | | | | | |
| 1-06-111-2006 | | 22.7 | 3.2 | 1.7 | 0.0 | 27.6 |
| Special Signals (SS) Subsystem | | | | | | |
| 1-07-333-2007 | | 0.6 | 8.0 | 8.5 | 0.0 | 17.1 |
| Enhanced Situational Awareness (ESA) Subsystem | | | | | | |
| 1-06-333-2006 | | 216.4 | 115.8 | 67.6 | 0.0 | 399.8 |
| Guardrail Ground Base Sub-System | | | | | | |
| 1-07-111-2007 | | 6.8 | 0.0 | 0.0 | 0.0 | 6.8 |
| High Band Comint (HBC) Subsystem | | | | | | |
| 1-07-222-2007 | | 20.4 | 18.6 | 19.9 | 0.0 | 58.9 |
| Electronic Intelligence (ELINT) | | | | | | |
| 1-07-444-2007 | | 10.1 | 2.1 | 3.8 | 0.0 | 16.0 |
| Advanced Precision Geolocation (APG) | | | | | | |
| 1-10-111-2010 | | 0.0 | 0.0 | 10.2 | 0.0 | 10.2 |
| Totals | | 277.0 | 147.7 | 111.7 | 0.0 | 536.4 |

INDIVIDUAL MODIFICATION

Date: May 2009

MODIFICATION TITLE: Special Signals (SS) Subsystem [MOD 2] 1-07-333-2007

MODELS OF SYSTEM AFFECTED: Systems 1, 2, 3 & 4

DESCRIPTION / JUSTIFICATION:
 The Special Signals Modernization effort provides capability to intercept special signals through evolution of the current X-Midas capability. Special Signal efforts will include production, integration and testing of X-Midas V3 hardware required to provide capability against unique signals. This also includes modification to ground software to enable sensor control and signal exploitation tools. Design, architecture, and antennas to support Special Signal capability will be included within ESA architecture efforts, as well as fielding in conjunction with ESA. It is anticipated that each aircraft will be equipped with two B-Kits. Funding for SS Provides fifteen B-Kits for two systems; and two B-Kits for a third system. SS will not be provided for the four Trainers at Ft Huachuca.

Justification: FY2010 provides Recurring Engr to support hardware purchase for the 2nd system within the ESA Mod. Special signals provides continued relevance against current and emerging threats. PM Support, Fielding and installation costs are captured as part of ESA integration.

DEVELOPMENT STATUS / MAJOR DEVELOPMENT MILESTONE(S):
 3QFY08 Contract Award
 2QFY11 SS Flight Test
 3QFY11 Begin Fielding 1st SS Capabilities
 1-2QFY12 Begin Fielding 2nd SS Capabilities
 2-4QFY12 Begin Fielding 3rd SS Capabilities
 2-3QFY2013 Begin Fielding 4th SS Capabilities
NOTE: Systems installation will occur as units become available between deployments.

Installation Schedule

| | Pr Yr Totals | FY 2009 | | | | FY 2010 | | | | FY 2011 | | | | FY 2012 | | | | FY 2013 | | | |
|---------|-----------------|---------|---|---|---|---------|---|---|---|---------|---|---|---|---------|---|---|---|---------|---|---|---|
| | | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 |
| Inputs | | | | | | | | 6 | 6 | 5 | 5 | 5 | 6 | 8 | 2 | | 2 | 2 | | | |
| Outputs | | | | | | | | | | | | 8 | 8 | 8 | 6 | 4 | 4 | 3 | 4 | 2 | |

| | FY 2014 | | | | FY 2015 | | | | FY 2016 | | | | FY 2017 | | | | To Complete | Totals |
|---------|---------|---|---|---|---------|---|---|---|---------|---|---|---|---------|---|---|---|----------------|--------|
| | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 | | |
| Inputs | | | | | | | | | | | | | | | | | | 47 |
| Outputs | | | | | | | | | | | | | | | | | | 47 |

METHOD OF IMPLEMENTATION: Contractor **ADMINISTRATIVE LEADTIME:** 3 months **PRODUCTION LEADTIME:** 12 months

Contract Dates: FY 2010 - FY 2011 - FY 2012 -

Delivery Dates: FY 2010 - FY 2011 - FY 2012 -

INDIVIDUAL MODIFICATION

Date: May 2009

MODIFICATION TITLE (cont): Special Signals (SS) Subsystem [MOD 2] 1-07-333-2007

FINANCIAL PLAN: (\$ in Millions)

| | FY 2008 and Prior | | 2009 | | 2010 | | TC | | Total | |
|---------------------------------|----------------------|-----|------|-----|------|-----|-----|-----|-------|------|
| | Qty | \$ | Qty | \$ | Qty | \$ | Qty | \$ | Qty | \$ |
| | RDT&E | | | | | | | | | |
| Procurement | | | | | | | | | | |
| NRE/Study | | 0.6 | | 2.0 | | 1.1 | | | | 3.7 |
| Installation Kits | | | | | | | | | | |
| SS V3 B-Kits | 20 | | 6.0 | | 23 | | 7.4 | | 43 | 13.4 |
| Spare SS V3 B-Kits | | | | | | | | | | |
| Data | | | | | | | | | | |
| Training Equipment | | | | | | | | | | |
| Support Equipment | | | | | | | | | | |
| Installation of Hardware | | | | | | | | | | |
| FY 2007 & Prior Equip -- Kits | | | | | | | | | | |
| FY 2008 -- Kits | | | | | | | | | | |
| FY 2009 Equip -- Kits | | | | | | | | | | |
| FY 2010 Equip -- Kits | | | | | | | | | | |
| FY 2011 Equip -- Kits | | | | | | | | | | |
| FY 2012 Equip -- Kits | | | | | | | | | | |
| FY 2013 Equip -- Kits | | | | | | | | | | |
| FY 2014 Equip -- Kits | | | | | | | | | | |
| TC Equip- Kits | | | | | | | | | | |
| Total Installment | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 |
| Total Procurement Cost | | 0.6 | | 8.0 | | 8.5 | | 0.0 | | 17.1 |

INDIVIDUAL MODIFICATION

Date: May 2009

MODIFICATION TITLE: Enhanced Situational Awareness (ESA) Subsystem [MOD 3] 1-06-333-2006

MODELS OF SYSTEM AFFECTED: System 1, 2, 3 & 4

DESCRIPTION / JUSTIFICATION:

-The ESA Upgrade provides a Modern Airborne Communication Intelligence (COMINT) Subsystem on 28 GRCS aircraft and infrastructure on 33 GRCS aircraft; provides a capability against modern commercial targets; & allows GRCS to remain relevant until Aerial Common Sensor (ACS) is fielded. The ESA upgrade replaces the current 1980's vintage Direction Finding (DF) and signal classification subsystems with a Net-Centric Sustainable Architecture capable of mapping the modern signal environment and provides the software on the ground to enable sensor control & signal exploitation tools. Upgrades are needed to keep the system relevant against evolving threat signals. ESA also includes the integration, test and fielding for CHALS-C, High Band COMINT (HBC), Special Signals (SS); integration of X-Midas, & Data Link equipment, & for related aircraft mods to continue to support these capabilities. ESA will provide data link & cockpit upgrades for the first two systems. ESA provides A-Kits to 4 Trainer Aircraft at Ft Huachuca. ESA provides COMINT infrastructure and Core COMINT capability allowing more open architecture & continued relevance against emerging OEF/OIF threats. Justification: FY2010 provides ESA A&B Kits for the 2nd system & partial 3rd system, Program Management Support, System Assessment & Test, and Training to include ESA, CHALS-C & HBC. Installation of ESA includes contract costs to integrate/test/fielding ESA, CHALS-C, HBC and SS. Systems installation will occur "As Units Become Available" between deployments.

DEVELOPMENT STATUS / MAJOR DEVELOPMENT MILESTONE(S):

1QFY09 Factory Acceptance Test
 3QFY10 System Assessment Test
 3QFY10-1QFY2011 Field 1st ESA Upgrade; 3QFY11-1QFY2012 Field 2nd; 2QFY12-1QFY2013 Field 3rd; and 2QFY13-2QFY2016 Field 4th.
 1-4QFY2014 Fields 4 Trainer Aircraft Systems to Ft Huachuca.

Installation Schedule

| Pr Yr Totals | FY 2009 | | | | FY 2010 | | | | FY 2011 | | | | FY 2012 | | | | FY 2013 | | | |
|-----------------|---------|---|---|---|---------|---|---|---|---------|---|---|---|---------|---|---|---|---------|---|---|---|
| | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 |
| Inputs | 4 | | | 1 | 1 | 2 | 2 | 2 | 2 | 3 | 3 | 1 | 2 | 2 | 2 | 1 | 2 | 1 | 1 | 2 |
| Outputs | | | | | | | 4 | 2 | 2 | | 4 | 4 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 1 |

| 1 | FY 2014 | | | FY 2015 | | | FY 2016 | | | FY 2017 | | | To Complete | Totals |
|---------|---------|---|---|---------|---|---|---------|---|---|---------|---|--|----------------|--------|
| | 2 | 3 | 4 | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 | | | |
| Inputs | | | | | | | | | | | | | | 34 |
| Outputs | 1 | 2 | | | | | | | | | | | | 34 |

METHOD OF IMPLEMENTATION: Contractor ADMINISTRATIVE LEADTIME: 0 months PRODUCTION LEADTIME: 0 months
 Contract Dates: FY 2010 - FY 2011 - FY 2012 -
 Delivery Dates: FY 2010 - FY 2011 - FY 2012 -

INDIVIDUAL MODIFICATION

Date: May 2009

MODIFICATION TITLE (cont): Enhanced Situational Awareness (ESA) Subsystem [MOD 3] 1-06-333-2006

FINANCIAL PLAN: (\$ in Millions)

| | FY 2008 and Prior | | 2009 | | 2010 | | TC | | Total | |
|-------------------------------|----------------------|--------------|----------|--------------|----------|-------------|----------|------------|-----------|--------------|
| | Qty | \$ | Qty | \$ | Qty | \$ | Qty | \$ | Qty | \$ |
| | RDT&E | | | | | | | | | |
| PROCUREMENT | | | | | | | | | | |
| Non-Recur | | 97.5 | | 22.2 | | | | | | 119.7 |
| Recur ESA B-Kit | 7 | 21.0 | 7 | 22.0 | 9 | 28.8 | | | 23 | 71.8 |
| Recur A-Kit (Racks/Cable) | 9 | 13.5 | 5 | 7.9 | 5 | 8.0 | | | 19 | 29.4 |
| Recur A-Kit (Airframe) | 10 | 11.5 | 4 | 4.8 | 5 | 6.2 | | | 19 | 22.5 |
| Recur Nav/Timing | 9 | 5.2 | 5 | 3.0 | 5 | 3.1 | | | 19 | 11.3 |
| Recur Data Link Air | 18 | 8.6 | | 3.0 | | | | | 18 | 11.6 |
| Recur Data Link Ground | 4 | 1.8 | 9 | 18.0 | | | | | 13 | 19.8 |
| Spare ESA B-Kit | 1 | 3.0 | 1 | 3.1 | 1 | 3.2 | | | 3 | 9.3 |
| Eng Lab Asset ESA B-Kit | 2 | 4.9 | | | | | | | 2 | 4.9 |
| Aircraft Upgrade Cockpit | 13 | 27.2 | 3 | 5.8 | | | | | 16 | 33.0 |
| System Integration | | 1.6 | | 5.5 | | | | | | 7.1 |
| Sys Assessment/Test Spt | | 2.0 | | 5.6 | | 3.8 | | | | 11.4 |
| Training Supt | | | | 0.4 | | 0.5 | | | | 0.9 |
| Fielding (CHALS/ESA/HBC) | | | | 3.1 | | 3.4 | | | | 6.5 |
| PM Support | | 18.6 | | 11.1 | | 10.3 | | | | 40.0 |
| A-Kit Installations: | | | | | | | | | | |
| FY 2009 Installation | | | 5 | 0.3 | | | | | 5 | 0.3 |
| FY 2010 Installation | | | | | 5 | 0.3 | | | 5 | 0.3 |
| FY 2011 Installation | | | | | | | | | | |
| FY 2012 Installation | | | | | | | | | | |
| FY 2013 Installation | | | | | | | | | | |
| Total Installment | 0 | 0.0 | 5 | 0.3 | 5 | 0.3 | 0 | 0.0 | 10 | 0.6 |
| Total Procurement Cost | | 216.4 | | 115.8 | | 67.6 | | 0.0 | | 399.8 |

INDIVIDUAL MODIFICATION

Date: May 2009

MODIFICATION TITLE: High Band Comint (HBC) Subsystem [MOD 5] 1-07-222-2007

MODELS OF SYSTEM AFFECTED: System 1, 2, 3 & 4

DESCRIPTION / JUSTIFICATION:
 The COMINT Upgrade provides for continued capability to intercept, locate, and exploit high frequency Communication Intelligence (COMINT) signals, including critical modern signals. High Band COMINT (HBC) efforts will include production, integration, and testing of hardware. This also includes modifications to ground software to enable sensor control and incorporate signal exploitation tools. Design, architecture, and antenna to support HBC capability will be included within ESA architecture efforts, as well as fielding in conjunction with ESA. Funding for HBC provides 4 B-Kits for the first three system fieldings, and one B-Kit for the fourth system fielding. HBC will not be provided for the four Trainers at Ft Huachuca.
 Justification: FY2010 funding provides Recurring Engr to support hardware purchases (B-Kits). HBC provides greatly enhanced capabilities against Operation Enduring Freedom/Operation Iraqi Freedom (OEF/OIF) modern threat signals. PM Support, Fielding and installation costs are captured as part of ESA integration.

DEVELOPMENT STATUS / MAJOR DEVELOPMENT MILESTONE(S):
 1QFY2008 Contract Award
 3QFY2010 System Assessment
 3QFY2010 Begin Fielding 1st System
 3QFY2011 Begin Fielding 2nd System
 2-4QFY2012 Begin Fielding 3rd System
 2-3QFY2013 Begin Fielding 4th System
 2QFY2015-2QFY2016 Complete System 1-3 Roundout
 NOTE: Systems installation will occur as units become available between deployments.

Installation Schedule

| | Pr Yr Totals | FY 2009 | | | | FY 2010 | | | | FY 2011 | | | | FY 2012 | | | | FY 2013 | | | |
|---------|-----------------|---------|---|---|---|---------|---|---|---|---------|---|---|---|---------|---|---|---|---------|---|---|---|
| | | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 |
| Inputs | 4 | | | | | | 4 | 4 | 4 | 4 | 4 | 2 | 2 | 2 | 2 | 1 | | | | | |
| Outputs | | | | | | | | 4 | | | 4 | 4 | 4 | 4 | 4 | 4 | 4 | | 1 | | |

| | FY 2014 | | | | FY 2015 | | | | FY 2016 | | | | FY 2017 | | | | To Complete | Totals |
|---------|---------|---|---|---|---------|---|---|---|---------|---|---|---|---------|---|---|---|----------------|--------|
| | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 | | |
| Inputs | | | | | | | | | | | | | | | | | | 33 |
| Outputs | | | | | | | | | | | | | | | | | | 33 |

METHOD OF IMPLEMENTATION: ADMINISTRATIVE LEADTIME: 0 months PRODUCTION LEADTIME: 0 months

Contract Dates: FY 2010 - FY 2011 - FY 2012 -

Delivery Dates: FY 2010 - FY 2011 - FY 2012 -

INDIVIDUAL MODIFICATION

Date: May 2009

MODIFICATION TITLE (cont): High Band Comint (HBC) Subsystem [MOD 5] 1-07-222-2007

FINANCIAL PLAN: (\$ in Millions)

| | FY 2008 and Prior | | 2009 | | 2010 | | TC | | Total | |
|---------------------------------|----------------------|------|------|------|------|------|-----|-----|-------|------|
| | Qty | \$ | Qty | \$ | Qty | \$ | Qty | \$ | Qty | \$ |
| | RDT&E | | | | | | | | | |
| Procurement | | | | | | | | | | |
| Kit Quantity | | | | | | | | | | |
| Installation Kits | | | | | | | | | | |
| Nonrecurring Engr | | 6.1 | | 4.0 | | | | | | 10.1 |
| Recurring HBC B-Kits | 7 | 8.9 | 1 | 1.8 | 3 | 4.3 | | | 11 | 15.0 |
| QRC-P Support | | 5.4 | | | | | | | | 5.4 |
| Initial Spares | | | | | | | | | | |
| Data | | | | | | | | | | |
| Support Equipment | | | | | | | | | | |
| Full B-Kit | | | 9 | 12.8 | 11 | 15.6 | | | 20 | 28.4 |
| Installation of Hardware | | | | | | | | | | |
| FY 2007 & Prior Equip -- Kits | | | | | | | | | | |
| FY 2008 -- Kits | | | | | | | | | | |
| FY 2009 Equip -- Kits | | | | | | | | | | |
| FY 2010 Equip -- Kits | | | | | | | | | | |
| FY 2011 Equip -- Kits | | | | | | | | | | |
| FY 2012 Equip -- Kits | | | | | | | | | | |
| FY 2013 Equip -- Kits | | | | | | | | | | |
| FY 2014 Equip -- Kits | | | | | | | | | | |
| TC Equip- Kits | | | | | | | | | | |
| Total Installment | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 |
| Total Procurement Cost | | 20.4 | | 18.6 | | 19.9 | | 0.0 | | 58.9 |

INDIVIDUAL MODIFICATION

Date: May 2009

MODIFICATION TITLE: Advanced Precision Geolocation (APG) [MOD 7] 1-10-111-2010

MODELS OF SYSTEM AFFECTED: System 1

DESCRIPTION / JUSTIFICATION:
 This effort incorporates the Advanced Precision Geolocation (APG) subsystem developed by NSA to eleven GRCS P/K/N aircraft to support the collection of OCO threat signals.
 Justification: The FY 2010 procurement funding provides for the B-Kits, integration, testing and fielding of the Advanced Precision Geo-Location (APG) capability developed by NSA to GRCS. This capability provides a unique capability to collect against modern OCO threat signals.

DEVELOPMENT STATUS / MAJOR DEVELOPMENT MILESTONE(S):
 Contract Award 4thQ FY10
 First Unit Equip (FUE) 1stQ FY12

Installation Schedule

| Pr Yr | FY 2009 | | | | FY 2010 | | | | FY 2011 | | | | FY 2012 | | | | FY 2013 | | | |
|---------|---------|---|---|---|---------|---|---|---|---------|---|---|---|---------|---|---|---|---------|---|---|---|
| | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 |
| Totals | | | | | | | | | | | | 6 | 5 | | | | | | | |
| Inputs | | | | | | | | | | | | | | | | | | | | |
| Outputs | | | | | | | | | | | | | 6 | 5 | | | | | | |

| | FY 2014 | | | | FY 2015 | | | | FY 2016 | | | | FY 2017 | | | | To Complete | Totals | | |
|---------|---------|---|---|---|---------|---|---|---|---------|---|---|---|---------|---|---|---|-------------|--------|--|----|
| | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 | | | | |
| Inputs | | | | | | | | | | | | | | | | | | | | 11 |
| Outputs | | | | | | | | | | | | | | | | | | | | 11 |

METHOD OF IMPLEMENTATION: ADMINISTRATIVE LEADTIME: 0 months PRODUCTION LEADTIME: 0 months
 Contract Dates: FY 2010 - FY 2011 - FY 2012 -
 Delivery Dates: FY 2010 - FY 2011 - FY 2012 -

INDIVIDUAL MODIFICATION

Date: May 2009

MODIFICATION TITLE (cont): Advanced Precision Geolocation (APG) [MOD 7] 1-10-111-2010

FINANCIAL PLAN: (\$ in Millions)

| | FY 2008 and Prior | | 2009 | | 2010 | | TC | | Total | |
|---------------------------------|----------------------|-----|------|-----|------|------|-----|-----|-------|------|
| | Qty | \$ | Qty | \$ | Qty | \$ | Qty | \$ | Qty | \$ |
| | RDT&E | | | | | | | | | |
| Procurement | | | | | | | | | | |
| Non-Recurring | | | | | | 1.2 | | | | 1.2 |
| Recurring | | | | | | 0.5 | | | | 0.5 |
| A-Kit | | | | | 11 | 1.9 | | | 11 | 1.9 |
| APG B-Kit | | | | | 11 | 3.9 | | | 11 | 3.9 |
| APG B-Kit Spare | | | | | 3 | 1.1 | | | 3 | 1.1 |
| Interim Contract Supt | | | | | | 1.0 | | | | 1.0 |
| PM Fielding Supt | | | | | | 0.6 | | | | 0.6 |
| Installation of Hardware | | | | | | | | | | |
| FY 2008 & Prior Equip -- Kits | | | | | | | | | | |
| FY 2009 -- Kits | | | | | | | | | | |
| FY 2010 Equip -- Kits | | | | | | | | | | |
| FY 2011 Equip -- Kits | | | | | | | | | | |
| FY 2012 Equip -- Kits | | | | | | | | | | |
| FY 2013 Equip -- Kits | | | | | | | | | | |
| FY 2014 Equip -- Kits | | | | | | | | | | |
| FY 2015 Equip -- Kits | | | | | | | | | | |
| TC Equip- Kits | | | | | | | | | | |
| Total Installment | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 |
| Total Procurement Cost | | 0.0 | | 0.0 | | 10.2 | | 0.0 | | 10.2 |

| | | | | | | |
|--|-------------|---------|---------------------------------|--|-------------|-------------------|
| Exhibit P-40, Budget Item Justification Sheet | | | | | | Date: May 2009 |
| Appropriation / Budget Activity / Serial No: Aircraft Procurement, Army / 2 / Modification of aircraft | | | | P-1 Item Nomenclature MULTI SENSOR ABN RECON (MIP) (AZ2001) | | |
| Program Elements for Code B Items: | | Code: | Other Related Program Elements: | | | |
| | Prior Years | FY 2008 | FY 2009 | FY 2010 | To Complete | Total Prog |
| Proc Qty | | | | | | |
| Gross Cost | | 236.3 | 23.2 | 75.5 | | 335.0 |
| Less PY Adv Proc | | | | | | |
| Plus CY Adv Proc | | | | | | |
| Net Proc P1 | | 236.3 | 23.2 | 75.5 | | 335.0 |
| Initial Spares | | | | | | |
| Total Proc Cost | | 236.3 | 23.2 | 75.5 | | 335.0 |
| Flyaway U/C | | | | | | |
| Weapon System Proc U/C | | | | | | |
| Description: | | | | | | |
| Multi Sensor Airborne Reconnaissance (AZ2001) is a summary budget line including the following programs: | | | | | | |
| (1) Airborne Reconnaissance Low (ARL) Mods (MIP). ARL is a multi-intelligence (MultiINT) airborne sensor providing the Combatant Commander with real-time Communications Intelligence (COMINT), Imagery Intelligence (IMINT) and Radar products. These systems are currently supporting forces in CENTCOM (Operation Iraqi Freedom (OIF)), SOUTHCOM, and Republic of Korea (ROK). | | | | | | |
| (2) ARMS/MARSS Mods (MIP). Aerial Reconnaissance Multi Sensor (ARMS) and Medium Altitude Reconnaissance and Surveillance System (MARSS) are two quick reaction capability (QRC) systems which support real-time surveillance and target acquisition missions in Iraq and Afghanistan. These systems can be configured with imagery, COMINT or other sensors, depending on the emerging requirements. MARSS is a Government Owned/Contractor Operated (GOCO) system; ARMS is an Army system. | | | | | | |
| (3) Constant Hawk (MIP). Constant Hawk is a persistent surveillance wide field of view airborne intelligence, surveillance and reconnaissance (AISR) system conducting Counter Improvised Explosive Device (IED) surveillance force protection missions in Iraq. | | | | | | |
| (4) Airborne Intelligence, Surveillance and Reconnaissance (ISR) Mods (MIP). AISR Mods support the Global War on Terrorism (GWOT) mission by providing real-time data links and a wide range of product exploitation/dissemination capability. This allows receivers of real-time video with METAdata and enables secondary exploitation tools to produce products for dissemination to maneuver elements. Video is also routed to multiple users in theater. The configuration also supports capture and dissemination of other sensors/capabilities (radars, et al). | | | | | | |
| Justification: | | | | | | |
| FY 10 Base Funding in the amount of \$21 million procures the continued baselining and modernization of the ARL fleet; ARL Multifunction (ARL-M) in CENTCOM and Operation Iraqi Freedom (OIF), ARL-C and ARL-M in SOUTHCOM, and ARL-M in Korea. Communications Intelligence (COMINT), Radar, Imagery, Interoperability with other systems, and Workstation Architecture will be upgraded. This standardization will reduce the maintenance burden and operational support costs. Sensors will also be modernized to prosecute emerging threats and requirements. FY 10 OCO Funding in the amount of \$54 million procures High Definition Electro-Optical Infra-Red (EO/IR) sensors on two ARL aircraft in support of OIF; Datalinks for 10 ARMS aircraft in OIF; Ku Band Beyond Line Of Sight (BLOS) communications links for two MARSS aircraft in OEF; and day/night sensors for Constant Hawk aircraft systems in OIF and OEF. | | | | | | |

| | | | | | | |
|---|-------------|---------|---------------------------------|--|-------------|-------------------|
| Exhibit P-40, Budget Item Justification Sheet | | | | | | Date: May 2009 |
| Appropriation / Budget Activity / Serial No: Aircraft Procurement, Army / 2 / Modification of aircraft | | | | P-1 Item Nomenclature ARL MODS (MIP) (AZ2050) | | |
| Program Elements for Code B Items: | | Code: | Other Related Program Elements: | | | |
| | Prior Years | FY 2008 | FY 2009 | FY 2010 | To Complete | Total Prog |
| Proc Qty | | | | | | |
| Gross Cost | | 236.3 | 23.2 | 34.0 | | 293.5 |
| Less PY Adv Proc | | | | | | |
| Plus CY Adv Proc | | | | | | |
| Net Proc P1 | | 236.3 | 23.2 | 34.0 | | 293.5 |
| Initial Spares | | | | | | |
| Total Proc Cost | | 236.3 | 23.2 | 34.0 | | 293.5 |
| Flyaway U/C | | | | | | |
| Weapon System Proc U/C | | | | | | |
| Description: Airborne Reconnaissance Low Multifunctional (ARL-M) evolved from two complementary tactical airborne systems ARL-I Imagery Intelligence (IMINT), an electro-optic reconnaissance and surveillance system, and ARL-C (communications intelligence (COMINT)) which provides real-time highly accurate radio intercept and location. The ARL-M program integrates the capabilities of ARL-I and ARL-C into a single system to satisfy requirements identified by validated Combatant Commanders' Statements of Need (SON). The primary sensors are COMINT with precision Direction Finding (DF) capability, IMINT electro-optics for target identification, and classification and multimode capability including wide area search Moving Target Indicator (MTI) and Synthetic Aperture Radar (SAR). ARL provides near real-time tactical airborne COMINT and IMINT collection support to Joint Task Force (JTF) Commanders. ARL is a multi-INT (combined COMINT and IMINT) system, designed for forward deployment/force projection in Operations Other Than War (OOTW) and Overseas Contingency Operations (OCO). Additionally, ARL currently supports CENTCOM OIF missions and also conducts daily Joint Chiefs of Staff (JCS) Sensitive Reconnaissance Operations. ARL is rapidly self-deployable to support contingency operations, and is the airborne Reconnaissance Surveillance Target Acquisition (RSTA) platform of choice for various non-DOD government agencies such as Drug Enforcement Administration (DEA) and Federal Emergency Management Agency (FEMA). ARL is configured to allow interoperability with other Army and DOD Intel nodes such as Common Ground Station (CGS) and Tactical Exploitation System (TES). ARL uses UHF and wideband Tactical Common Data Links (TCDL), L-Band, and S-Band for Line of Sight (LOS) datalink communication, and uses UHF SATCOM and Direct Air-to-Satellite (DASR) for beyond LOS reporting. ARL contributes directly to the success of Army Transformation by serving as an operational platform for verification of new or improved technologies. ARL will continue to support current operations until a future system is fielded. | | | | | | |
| Justification: FY 10 Base Funding in the amount of \$21.457 million procures the continued standardization and modernization of the ARL fleet resulting in Radar, COMINT, and IMINT upgrades. Specifically, conversion of the final ARL-C to ARL-M configuration and upgrades to the COMINT and Imagery payloads. These upgrades also result in greater standardization across the fleet which not only maintains relevancy but reduces operational and sustainment costs. FY 10 OCO Funding in the amount of \$12.500 million provides the procurement, integration, and testing of High Definition (HD) Electro-Optical Infra-Red (EO/IR) sensors on 2 ARL aircraft which currently support OIF. Due to high Operation Tempo (OPTEMPO), current IMINT sensors are burned out and this allows for immediate procurement of replacement. This enhancement provides the Soldiers with the capability to identify and classify high value targets for direct support to the warfighter on the ground. This modification provides direct support for operation in Operation Iraqi Freedom (OIF) and OCO. | | | | | | |

| Exhibit P-40M, Budget Item Justification Sheet | | | | | | Date: |
|---|----------------|--------------|--|---------|---------------------------------|-------|
| Appropriation / Budget Activity / Serial No: Aircraft Procurement, Army / 2 / Modification of aircraft | | | P-1 Item Nomenclature ARL MODS (MIP) (AZ2050) | | | |
| Program Elements for Code B Items: | | | | Code: | Other Related Program Elements: | |
| Description | | Fiscal Years | | | | |
| OSIP No. | Classification | 2008 & PR | FY 2009 | FY 2010 | TC | Total |
| Comint Upgrades | | | | | | |
| 6-66-66-0000 | Operational | 36.8 | 5.5 | 4.9 | 0.0 | 47.2 |
| System Interoperability | | | | | | |
| 0-00-08-8888 | Operational | 16.6 | 0.3 | 4.5 | 0.0 | 21.4 |
| Radar | | | | | | |
| 0-00-05-2222 | Operational | 30.5 | 2.0 | 1.0 | 0.0 | 33.5 |
| Workstation Architecture | | | | | | |
| 1-08-11-0000 | Operational | 9.2 | 2.9 | 0.5 | 0.0 | 12.6 |
| Imagery | | | | | | |
| 0-00-05-3333 | Operational | 23.0 | 2.4 | 0.0 | 0.0 | 25.4 |
| ARL-C to ARL-M Conversion | | | | | | |
| 0-00-07-7777 | Operational | 7.1 | 10.1 | 10.6 | 0.0 | 27.8 |
| High Definition (HD) Sensors | | | | | | |
| 0-00-09-9999 | Operational | 0.0 | 0.0 | 12.5 | 0.0 | 12.5 |
| Totals | | 123.2 | 23.2 | 34.0 | 0.0 | 180.4 |

| INDIVIDUAL MODIFICATION | | | | | | | | | | | | | | | | Date: May 2009 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---------|---|---|---|---------|---|---|---|---------|---|---|---|---------|---|---|----------------|----------------|--------|---|-----------------|---------|--|--|--|---------|--|--|--|---------|--|--|--|---------|--|--|--|----------------|--------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--------|---|---|---|---|---|--------|---|--|--|--|--|--|--|--|--|--|--|---|---------|--|--|--|--|--|--|--|---------|---|--|--|--|---|--|--|--|--|---|--|--|---|--|--|--|--|--|--|--|
| MODIFICATION TITLE: Comint Upgrades [MOD 1] 6-66-66-0000 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| MODELS OF SYSTEM AFFECTED: ARL-M4, M5, C1 and C2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| DESCRIPTION / JUSTIFICATION: The Communications Intelligence (COMINT) upgrade modification adds a COMINT subsystem to M4, M5, C1, C2 and provides two spare COMINT subsystems. The COMINT system includes a complete Acquisition and Direction Finding antenna manifold, Tactical Signals Intelligence (SIGINT) Payload system, navigation interfaces, and Man Machine Interface (MMI). This will allow the ARLs to have a standard COMINT capability which can support operations in support of Operation Iraqi Freedom (OIF) and the Overseas Contingency Operations (OCO). The system will include a frequency extension and architectural modifications for federated acquisition boxes (to allow rapid threat response). The system will also be configured for remote operations and multi-level security operation. FY10-FY15 provides software module drops to support the exploitation of additional high priority target waveforms. The COMINT installation for Airborne Reconnaissance Low (ARL-C1) and ARL-C2 will be part of the ARL communications intelligence (C) to multifunctional (M) conversion, hence installation fielding is protracted as part of the larger aircraft modification cycle. Fielding schedule is dependent on aircraft availability due to the unit supporting current Operation Iraqi Freedom (OIF) and Overseas Contingency Operations (OCO). FY2010 funding provides COMINT installation on C1 fielding and frequency extension antennas and software upgrades. The installation of the fourth COMINT is funded under the final ARL-C to ARL-M conversion modification. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| DEVELOPMENT STATUS / MAJOR DEVELOPMENT MILESTONE(S): 1QFY09 First System Fielded 2QFY10 Second System Fielded 3QFY12 Third System Fielded (concurrently with final ARL-C to ARL-M conversion) 1QFY10 Fourth System Fielded, (dependent on aircraft availability) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Installation Schedule | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th rowspan="2">Pr Yr Totals</th> <th colspan="4">FY 2009</th> <th colspan="4">FY 2010</th> <th colspan="4">FY 2011</th> <th colspan="4">FY 2012</th> <th colspan="4">FY 2013</th> </tr> <tr> <th>1</th><th>2</th><th>3</th><th>4</th> <th>1</th><th>2</th><th>3</th><th>4</th> <th>1</th><th>2</th><th>3</th><th>4</th> <th>1</th><th>2</th><th>3</th><th>4</th> <th>1</th><th>2</th><th>3</th><th>4</th> </tr> </thead> <tbody> <tr> <td>Inputs</td> <td colspan="4">2</td> <td colspan="4"></td> <td colspan="4"></td> <td colspan="4"></td> <td colspan="4"></td> </tr> <tr> <td>Outputs</td> <td colspan="4">1</td> <td colspan="4">1</td> <td colspan="4"></td> <td colspan="4">1</td> <td colspan="4"></td> </tr> </tbody> </table> | | | | | | | | | | | | | | | | | | | | Pr Yr Totals | FY 2009 | | | | FY 2010 | | | | FY 2011 | | | | FY 2012 | | | | FY 2013 | | | | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 | Inputs | 2 | | | | | | | | | | | | | | | | | | | | Outputs | 1 | | | | 1 | | | | | | | | 1 | | | | | | | |
| Pr Yr Totals | FY 2009 | | | | FY 2010 | | | | FY 2011 | | | | FY 2012 | | | | FY 2013 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Inputs | 2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Outputs | 1 | | | | 1 | | | | | | | | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th rowspan="2"></th> <th colspan="4">FY 2014</th> <th colspan="4">FY 2015</th> <th colspan="4">FY 2016</th> <th colspan="4">FY 2017</th> <th rowspan="2">To Complete</th> <th rowspan="2">Totals</th> </tr> <tr> <th>1</th><th>2</th><th>3</th><th>4</th> <th>1</th><th>2</th><th>3</th><th>4</th> <th>1</th><th>2</th><th>3</th><th>4</th> <th>1</th><th>2</th><th>3</th><th>4</th> </tr> </thead> <tbody> <tr> <td>Inputs</td> <td colspan="4"></td> <td colspan="4"></td> <td colspan="4"></td> <td colspan="4"></td> <td></td> <td>4</td> </tr> <tr> <td>Outputs</td> <td colspan="4"></td> <td colspan="4"></td> <td colspan="4"></td> <td colspan="4"></td> <td></td> <td>4</td> </tr> </tbody> </table> | | | | | | | | | | | | | | | | | | | | | FY 2014 | | | | FY 2015 | | | | FY 2016 | | | | FY 2017 | | | | To Complete | Totals | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 | Inputs | | | | | | | | | | | | | | | | | | 4 | Outputs | | | | | | | | | | | | | | | | | | 4 | | | | | | | | | | |
| | FY 2014 | | | | FY 2015 | | | | FY 2016 | | | | FY 2017 | | | | To Complete | Totals | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Inputs | | | | | | | | | | | | | | | | | | 4 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Outputs | | | | | | | | | | | | | | | | | | 4 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| METHOD OF IMPLEMENTATION: ADMINISTRATIVE LEADTIME: 0 months PRODUCTION LEADTIME: 0 months Contract Dates: FY 2010 - FY 2011 - FY 2012 - Delivery Dates: FY 2010 - FY 2011 - FY 2012 - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

INDIVIDUAL MODIFICATION

Date: May 2009

MODIFICATION TITLE (cont): Comint Upgrades [MOD 1] 6-66-66-0000

FINANCIAL PLAN: (\$ in Millions)

| | FY 2008 and Prior | | 2009 | | 2010 | | TC | | Total | |
|------------------------------------|----------------------|------|------|-----|------|-----|-----|-----|-------|------|
| | Qty | \$ | Qty | \$ | Qty | \$ | Qty | \$ | Qty | \$ |
| | RDT&E | | | | | | | | | |
| Procurement | | | | | | | | | | |
| Diamondback NRE | | 4.5 | | | | | | | | 4.5 |
| Diamondback B Kits | 3 | 9.5 | 1 | 1.6 | | | | | 4 | 11.1 |
| Calibration & Test | | 4.5 | | | | 0.1 | | | | 4.6 |
| Contractor & Govt Mgt | | 1.8 | | 0.2 | | 0.1 | | | | 2.1 |
| Signal Processing SW | | | | | | 2.6 | | | | 2.6 |
| Spares | | 1.6 | | 1.6 | | | | | | 3.2 |
| Sunk Costs | | 13.2 | | | | | | | | 13.2 |
| Frequency Extension Antenna ECO | | | | 0.4 | | 0.4 | | | | 0.8 |
| Installation of Hardware | | | | | | | | | | |
| FY 2007 & Prior Equip -- Kits | 1 | 1.7 | 1 | 1.7 | 1 | 1.7 | | | 3 | 5.1 |
| FY 2008 -- Kits | | | | | | | | | | |
| FY 2009 Equip -- Kits | | | | | | | | | | |
| FY 2010 Equip -- Kits | | | | | | | | | | |
| FY 2011 Equip -- Kits | | | | | | | | | | |
| FY 2012 Equip -- Kits | | | | | | | | | | |
| FY 2013 Equip -- Kits | | | | | | | | | | |
| FY 2014 Equip -- Kits | | | | | | | | | | |
| TC Equip- Kits | | | | | | | | | | |
| Total Installment | 1 | 1.7 | 1 | 1.7 | 1 | 1.7 | 0 | 0.0 | 3 | 5.1 |
| Total Procurement Cost | | 36.8 | | 5.5 | | 4.9 | | 0.0 | | 47.2 |

INDIVIDUAL MODIFICATION

Date: May 2009

MODIFICATION TITLE: ARL-C to ARL-M Conversion [MOD 6] 0-00-07-7777

MODELS OF SYSTEM AFFECTED: ARL C1, C2 to ARL M7, M8

DESCRIPTION / JUSTIFICATION:

The Airborne Reconnaissance Low Communications Intelligence (ARL C) to Multifunctional (M) conversion consists of a Triport (three sensor positions) modification to allow for the installation of Electro Optical/Infrared (EO/IR), Digital Camera, or radar payloads (the radar payload will be purchased under the Radar modification); aircraft navigation modification; Air Survivability Equipment (ASE) modification; aircraft power modification; and Communications Intelligence (COMINT) antenna modification. The current COMINT infrastructure will be replaced (COMINT payload will be purchased under COMINT upgrade modification). This modification will also provide an imagery capability (EO/IR and digital pan camera); upgrade the communications suite; and modify the Mission Analysts Workstations. This upgrade is to support capability requirement in Operation Iraqi Freedom (OIF), Operation Enduring Freedom (OEF), and Overseas Contingency Operations (OCO).

FY2010 funding procures the final ARL-C to ARL-M conversion.

DEVELOPMENT STATUS / MAJOR DEVELOPMENT MILESTONE(S):

3QFY07 Award Contract and begin Non-Recurring Engineering (NRE)
 2QFY10 Field C1 to M7 Conversion
 3QFY12 Field C2 to M8 Conversion

Installation Schedule

| Pr Yr Totals | FY 2009 | | | | FY 2010 | | | | FY 2011 | | | | FY 2012 | | | | FY 2013 | | | |
|-----------------|---------|---|---|---|---------|---|---|---|---------|---|---|---|---------|---|---|---|---------|---|---|---|
| | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 |
| Inputs | 1 | | | | | | 1 | | | | | | | | | | | | | |
| Outputs | | | | | | 1 | | | | | | | | | 1 | | | | | |

| | FY 2014 | | | | FY 2015 | | | | FY 2016 | | | | FY 2017 | | | | To Complete | Totals | | | |
|---------|---------|---|---|---|---------|---|---|---|---------|---|---|---|---------|---|---|---|----------------|--------|--|--|---|
| | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 | | | | | |
| Inputs | | | | | | | | | | | | | | | | | | | | | 2 |
| Outputs | | | | | | | | | | | | | | | | | | | | | 2 |

METHOD OF IMPLEMENTATION:

ADMINISTRATIVE LEADTIME:

0 months

PRODUCTION LEADTIME:

0 months

Contract Dates:

FY 2010 -

FY 2011 -

FY 2012 -

Delivery Dates:

FY 2010 -

FY 2011 -

FY 2012 -

INDIVIDUAL MODIFICATION

Date: May 2009

MODIFICATION TITLE (cont): ARL-C to ARL-M Conversion [MOD 6] 0-00-07-7777

FINANCIAL PLAN: (\$ in Millions)

| | FY 2008 and Prior | | 2009 | | 2010 | | TC | | Total | |
|---------------------------------------|----------------------|-----|------|------|------|------|-----|-----|-------|------|
| | Qty | \$ | Qty | \$ | Qty | \$ | Qty | \$ | Qty | \$ |
| | RDT&E | | | | | | | | | |
| Procurement | | | | | | | | | | |
| Airframe Modification and Integration | | 6.5 | | 8.7 | | 9.2 | | | | 24.4 |
| Fielding | | | | | | 0.3 | | | | 0.3 |
| Test | | | | 0.5 | | 0.5 | | | | 1.0 |
| PMO | | 0.6 | | 0.5 | | 0.4 | | | | 1.5 |
| Air Worthiness Release | | | | 0.4 | | 0.2 | | | | 0.6 |
| Installation of Hardware | | | | | | | | | | |
| FY 2007 & Prior Equip -- Kits | | | | | | | | | | |
| FY 2008 -- Kits | | | | | | | | | | |
| FY 2009 Equip -- Kits | | | | | | | | | | |
| FY 2010 Equip -- Kits | | | | | | | | | | |
| FY 2011 Equip -- Kits | | | | | | | | | | |
| FY 2012 Equip -- Kits | | | | | | | | | | |
| FY 2013 Equip -- Kits | | | | | | | | | | |
| FY 2014 Equip -- Kits | | | | | | | | | | |
| TC Equip- Kits | | | | | | | | | | |
| Total Installment | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 |
| Total Procurement Cost | | 7.1 | | 10.1 | | 10.6 | | 0.0 | | 27.8 |

INDIVIDUAL MODIFICATION

Date: May 2009

MODIFICATION TITLE: High Definition (HD) Sensors [MOD 7] 0-00-09-9999

MODELS OF SYSTEM AFFECTED: ARL M4, M5

DESCRIPTION / JUSTIFICATION:

This modification provides the procurement, integration, and testing of High Definition (HD) Electro-Optical Infra-Red (EO/IR) sensors on 2 Airborne reconnaissance Low (ARL) aircraft which currently support Operation Iraqi Freedom (OIF). Due to high Operation Tempo (OPTEMPO), current imagery intelligence (IMINT) sensors are burned out and this allows for immediate procurement of replacement. This enhancement provides the Soldiers with the capability to identify and classify high value targets for direct support to the warfighter on the ground. This modification provides direct support for operation in OIF and Overseas Contingency Operations (OCO).

DEVELOPMENT STATUS / MAJOR DEVELOPMENT MILESTONE(S):

3QFY10 Contract Award/1st Aircraft Inducted
 2QFY11 Testing and Integration
 3QFY11 Fielding of 1st Aircraft
 4QFY11 2nd Aircraft Inducted
 1QFY12 Testing and Integration
 2QFY12 Fielding of 2nd Aircraft
 Fielding schedule is based upon aircraft availability

Installation Schedule

| Pr Yr Totals | FY 2009 | | | | FY 2010 | | | | FY 2011 | | | | FY 2012 | | | | FY 2013 | | | |
|-----------------|---------|---|---|---|---------|---|---|---|---------|---|---|---|---------|---|---|---|---------|---|---|---|
| | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 |
| Inputs | | | | | | | 1 | | | | 1 | | | | | | | | | |
| Outputs | | | | | | | | | | | | 1 | | 1 | | | | | | |

| | FY 2014 | | | | FY 2015 | | | | FY 2016 | | | | FY 2017 | | | | To Complete | Totals |
|---------|---------|---|---|---|---------|---|---|---|---------|---|---|---|---------|---|---|---|----------------|--------|
| | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 | | |
| Inputs | | | | | | | | | | | | | | | | | | 2 |
| Outputs | | | | | | | | | | | | | | | | | | 2 |

METHOD OF IMPLEMENTATION:

ADMINISTRATIVE LEADTIME:

0 months

PRODUCTION LEADTIME:

0 months

Contract Dates:

FY 2010 -

FY 2011 -

FY 2012 -

Delivery Dates:

FY 2010 -

FY 2011 -

FY 2012 -

INDIVIDUAL MODIFICATION

Date: May 2009

MODIFICATION TITLE (cont): High Definition (HD) Sensors [MOD 7] 0-00-09-9999

FINANCIAL PLAN: (\$ in Millions)

| | FY 2008 and Prior | | 2009 | | 2010 | | TC | | Total | |
|---|----------------------|-----|------|-----|------|------|-----|-----|-------|------|
| | Qty | \$ | Qty | \$ | Qty | \$ | Qty | \$ | Qty | \$ |
| | RDT&E | | | | | | | | | |
| Procurement | | | | | | | | | | |
| (NRE) Non-Recurring Engineering | | | | | | 0.4 | | | | 0.4 |
| Cables MX-20 HD (2 per aircraft) / | | | | | 4 | 5.9 | | | 4 | 5.9 |
| MX-15 HD / Cables | | | | | 2 | 2.5 | | | 2 | 2.5 |
| Third Hole Hardware | | | | | 2 | 0.5 | | | 2 | 0.5 |
| Hardware Work Station Digital Interface | | | | | 2 | 0.9 | | | 2 | 0.9 |
| Procedure Test Flight/Acceptance Test | | | | | | 0.7 | | | | 0.7 |
| PMO Mgmt | | | | | | 0.7 | | | | 0.7 |
| Installation of Hardware | | | | | | | | | | |
| FY 2008 & Prior Equip -- Kits | | | | | | | | | | |
| FY 2009 -- Kits | | | | | | | | | | |
| FY 2010 Equip -- Labor | | | | | | 0.9 | | | | 0.9 |
| FY 2011 Equip -- Kits | | | | | | | | | | |
| FY 2012 Equip -- Kits | | | | | | | | | | |
| FY 2013 Equip -- Kits | | | | | | | | | | |
| FY 2014 Equip -- Kits | | | | | | | | | | |
| FY 2015 Equip -- Kits | | | | | | | | | | |
| TC Equip- Kits | | | | | | | | | | |
| Total Installment | 0 | 0.0 | 0 | 0.0 | 0 | 0.9 | 0 | 0.0 | 0 | 0.9 |
| Total Procurement Cost | | 0.0 | | 0.0 | | 12.5 | | 0.0 | | 12.5 |

| | | | | | | |
|---|-------------|---------|---------------------------------|---|-------------|-------------------|
| Exhibit P-40, Budget Item Justification Sheet | | | | | | Date: May 2009 |
| Appropriation / Budget Activity / Serial No: Aircraft Procurement, Army / 2 / Modification of aircraft | | | | P-1 Item Nomenclature ARMS MARSS MODS (MIP) (AZ2052) | | |
| Program Elements for Code B Items: | | Code: | Other Related Program Elements: | | | |
| | Prior Years | FY 2008 | FY 2009 | FY 2010 | To Complete | Total Prog |
| Proc Qty | | | | | | |
| Gross Cost | | | | 23.2 | | 23.2 |
| Less PY Adv Proc | | | | | | |
| Plus CY Adv Proc | | | | | | |
| Net Proc P1 | | | | 23.2 | | 23.2 |
| Initial Spares | | | | | | |
| Total Proc Cost | | | | 23.2 | | 23.2 |
| Flyaway U/C | | | | | | |
| Weapon System Proc U/C | | | | | | |
| Description: | | | | | | |
| ARMS/MARSS Mods (MIP). Aerial Reconnaissance Multi Sensor (ARMS) and Medium Altitude Reconnaissance and Surveillance System (MARSS) are two quick reaction capability (QRC) systems which support real-time surveillance and target acquisition missions in Iraq and Afghanistan. They provide manned airborne reconnaissance platforms to provide commanders with real time intelligence and support to their battlefield operations. These systems can be configured with various sensors and communications equipment to include imagery, COMINT or other specialized sensors, depending on the emerging requirements. | | | | | | |
| ARMS: There are ten ARMS aircraft fielded to Iraq in support of Task Force Observe, Detect, Identify and Neutralize (TF ODIN). The ARMS system is composed of B-200 (C-12) aircraft equipped with imagery sensors, specialized COMINT sensors, and an array of line of sight and beyond line of sight communications equipment. The aircraft were fielded to Operation Iraqi Freedom (OIF) in FY06 and have been providing daily support to the TF ODIN commander. They are manned with Army reserve personnel and maintained and supported by contractors. A major enabler for this equipment is real-time data links and a wide range of product exploitation/dissemination capability. This allows users to receive real-time video with Metadata and enables secondary exploitation tools to produce products for dissemination to maneuver elements. Imagery is also routed to multiple users in theater. The configuration also supports capture and dissemination of other sensors/capabilities. Prior to establishment of this line, \$7.5M of FY07 Supplement funds and \$23.0M of FY08 Supplement funds were placed in the Airborne Reconnaissance Low (ARL) Mods line (AZ2050) for ARMS. | | | | | | |
| MARSS: The MARSS aircraft are primarily King Air 300's (C-12 variant) equipped with numerous sensors to include imagery and communications intelligence (COMINT) payloads. They also include several line-of-sight and beyond line of sight communications systems and on board (manned) processing of the imagery and COMINT. There is one MARSS system in Iraq and currently one in Overseas Enduring Freedom (OEF) with a planned and funded growth to eight total aircraft in OEF. Three of these aircraft will be manned by contractors while the others will be manned by National Guard pilots and backseat operators. These systems are and will be under the command of the TF ODIN-Iraq and Afghanistan commanders. The Extended MARSS (EMARSS) program provides six additional MARSS systems based on a King Air 350 Extended Range (ER) aircraft. Prior to establishment of this line, \$114.8M of FY08 Supplement and Intelligence, Surveillance, and Reconnaissance (ISR) Surge funds were placed in the ARL Mods line (AZ2050) for MARSS. | | | | | | |
| Justification: | | | | | | |
| FY 10 OCO Funding in the amount of \$23 million procures upgrades to both sets of aircraft. The ARMS aircraft will receive new data links as well as upgrades to the processing systems associated with the aircraft. The MARSS aircraft will be rounded out to have Ku beyond line of sight communication for all the aircraft in OEF. | | | | | | |

| | | | | | | |
|---|----------------|--------------|---|---------|---------------------------------|-------------------|
| Exhibit P-40M, Budget Item Justification Sheet | | | | | | Date: May 2009 |
| Appropriation / Budget Activity / Serial No: Aircraft Procurement, Army / 2 / Modification of aircraft | | | P-1 Item Nomenclature ARMS MARSS MODS (MIP) (AZ2052) | | | |
| Program Elements for Code B Items: | | | | Code: | Other Related Program Elements: | |
| Description | | Fiscal Years | | | | |
| OSIP No. | Classification | 2008 & PR | FY 2009 | FY 2010 | TC | Total |
| ARMS Data links and Data Dissemination | | | | | | |
| 1-07-01-OCO | U | 0.0 | 0.0 | 18.7 | 0.0 | 18.7 |
| MARSS Beyond Line of Sight in OEF | | | | | | |
| 01-08-003-OCO | U | 0.0 | 0.0 | 4.5 | 0.0 | 4.5 |
| Totals | | 0.0 | 0.0 | 23.2 | 0.0 | 23.2 |

| | | | | | | | | | | | | | | | | | | | | | |
|---|--|--------------------------|---|---|---|-----------|---|---|---|----------------------|---|---|---|----------|---|---|---|----------------|--------|---|---|
| INDIVIDUAL MODIFICATION | | | | | | | | | | | | | | | | | | Date: May 2009 | | | |
| MODIFICATION TITLE: ARMS Data links and Data Dissemination [MOD 1] 1-07-01-OCO | | | | | | | | | | | | | | | | | | | | | |
| MODELS OF SYSTEM AFFECTED: ARMS 1 through 10 | | | | | | | | | | | | | | | | | | | | | |
| DESCRIPTION / JUSTIFICATION: The ARMS aircraft require upgrades to allow for real time/encrypted data links to support real time dissemination of imagery from the aircraft to warfighters on the ground. The aircraft will be equipped with a total of ten Tactical Common Data Links (TCDLs) as well as additional communications equipment to provide improved data dissemination. The associated ground equipment will be upgraded to allow for improved processing of data from the aircraft as well as improved data dissemination. It is not expected that any aircraft will come out of service to support the integration of the equipment. | | | | | | | | | | | | | | | | | | | | | |
| DEVELOPMENT STATUS / MAJOR DEVELOPMENT MILESTONE(S): DEVELOPMENT STATUS / MAJOR DEVELOPMENT MILESTONE(S): 1QFY10: procurement of 12 TCDL systems for the aircraft (10 plus 2 spares) 3QFY10: Receipt of TCDL equipment 4QFY10: Testing of TCDL on surrogate aircraft 1-2QFY11; Fielding/integration of TCDLs to theater 1QFY10: Contract for upgrades to OIF aircraft/ground processing 3-4QFY10: Integration of upgraded air/ground processing | | | | | | | | | | | | | | | | | | | | | |
| Installation Schedule | | | | | | | | | | | | | | | | | | | | | |
| | | FY 2009 | | | | FY 2010 | | | | FY 2011 | | | | FY 2012 | | | | FY 2013 | | | |
| | | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 |
| Inputs | | | | | | | | | | | | | | | | | | | | | |
| Outputs | | | | | | | | | | | | | | | | | | | | | |
| | | FY 2014 | | | | FY 2015 | | | | FY 2016 | | | | FY 2017 | | | | To Complete | Totals | | |
| | | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 | | | | |
| Inputs | | | | | | | | | | | | | | | | | | | | | |
| Outputs | | | | | | | | | | | | | | | | | | | | | |
| METHOD OF IMPLEMENTATION: | | ADMINISTRATIVE LEADTIME: | | | | 0 months | | | | PRODUCTION LEADTIME: | | | | 0 months | | | | | | | |
| Contract Dates: | | FY 2010 - | | | | FY 2011 - | | | | FY 2012 - | | | | | | | | | | | |
| Delivery Dates: | | FY 2010 - | | | | FY 2011 - | | | | FY 2012 - | | | | | | | | | | | |

INDIVIDUAL MODIFICATION

Date: May 2009

MODIFICATION TITLE (cont): ARMS Data links and Data Dissemination [MOD 1] 1-07-01-OCO

FINANCIAL PLAN: (\$ in Millions)

| | FY 2008 and Prior | | 2009 | | 2010 | | TC | | Total | |
|---------------------------------|----------------------|-----|------|-----|------|------|-----|-----|-------|------|
| | Qty | \$ | Qty | \$ | Qty | \$ | Qty | \$ | Qty | \$ |
| | RDT&E | | | | | | | | | |
| Procurement | | | | | | | | | | |
| Data Link HW | | | | | 10 | 3.5 | | | 10 | 3.5 |
| Nonrecurring Engineering | | | | | | 11.6 | | | | 11.6 |
| Spares/Support Equipment | | | | | 2 | 2.1 | | | 2 | 2.1 |
| Interim Contractor Support | | | | | | 1.5 | | | | 1.5 |
| ARMS Integration | | | | | | | | | | |
| ARMS Sensor Upgrades | | | | | | | | | | |
| Installation of Hardware | | | | | | | | | | |
| FY 2008 & Prior Equip -- Kits | | | | | | | | | | |
| FY 2009 -- Kits | | | | | | | | | | |
| FY 2010 Equip -- Kits | | | | | | | | | | |
| FY 2011 Equip -- Kits | | | | | | | | | | |
| FY 2012 Equip -- Kits | | | | | | | | | | |
| FY 2013 Equip -- Kits | | | | | | | | | | |
| FY 2014 Equip -- Kits | | | | | | | | | | |
| FY 2015 Equip -- Kits | | | | | | | | | | |
| TC Equip- Kits | | | | | | | | | | |
| Total Installment | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 |
| Total Procurement Cost | | 0.0 | | 0.0 | | 18.7 | | 0.0 | | 18.7 |

| | | | | | | |
|--|-------------|---------|---------------------------------|---|-------------|----------------|
| Exhibit P-40, Budget Item Justification Sheet | | | | | | Date: May 2009 |
| Appropriation / Budget Activity / Serial No: Aircraft Procurement, Army / 2 / Modification of aircraft | | | | P-1 Item Nomenclature CONSTANT HAWK (MIP) (AZ2054) | | |
| Program Elements for Code B Items: | | Code: | Other Related Program Elements: | | | |
| | Prior Years | FY 2008 | FY 2009 | FY 2010 | To Complete | Total Prog |
| Proc Qty | | | | | | |
| Gross Cost | | | | 18.3 | | 18.3 |
| Less PY Adv Proc | | | | | | |
| Plus CY Adv Proc | | | | | | |
| Net Proc P1 | | | | 18.3 | | 18.3 |
| Initial Spares | | | | | | |
| Total Proc Cost | | | | 18.3 | | 18.3 |
| Flyaway U/C | | | | | | |
| Weapon System Proc U/C | | | | | | |
| Description: | | | | | | |
| <p>Constant Hawk (MIP). Constant Hawk (CH) is a persistent surveillance wide field of view airborne intelligence, surveillance and reconnaissance (AISR) system conducting Counter Improvised Explosive Device (IED) surveillance and forensic force protection missions in Iraq and Afghanistan. CH uses high resolution Electro Optic (EO) cameras mounted on manned aircraft to provide persistent surveillance of a designated Named Area of Interest (NAI). The aircraft loiters over a NAI for five to six hours collecting and storing imagery data. At the completion of the mission this data will be processed on the ground and personnel will perform forensic analysis of the data. The resulting intelligence related to IED attacks and other critical information is pushed out to commanders within hours of completion of the mission. The system currently only operates in daytime conditions. Several near term upgrades are planned for the system to include the addition of a real time data link, improved processing tools, improved EO sensors, and an Infra-Red (IR) sensor to allow for day and night operations.</p> <p>Constant Hawk Iraq (CH-I): There are four CH aircraft in Iraq as well as one test-bed aircraft CONUS for training and evaluation of upgrades to the system. The CH-Iraq system is under the operational control of the Task Force Observe, Detect, Identify, and Neutralize (TF ODIN). CH-I is a unique capability from other assets within TF ODIN, and is the only asset performing forensic analysis. The four CH-I aircraft perform on average twenty five (25) sorties per week. The CH-I system uses a Shorts 360 non-pressurized aircraft. The CH-I system is contractor owned and operated. The government funds the contractor for full operations and support of the system in theater to include pilots, analysts, backseat operators, and maintenance personnel. The development of CH-I was primarily funded through Joint IED Defeat Organization (JIEDDO).</p> <p>Constant Hawk-Afghanistan (CH-A): In FY08 the ISR Task Force funded the production and fielding of three CH aircraft to support TF ODIN Afghanistan operations. In January 2009 the Army awarded a contract to produce and field these aircraft which will be fielded in FY10. This system will be identical to the CH-I equipment except it will be integrated on a pressurized, King Air 350 (C-12) aircraft. The system will also include a single CONUS based aircraft to support training and upgrades. The TFO-A system will also be contractor owned and operated and fall under the command and control of TF-ODIN Afghanistan.</p> | | | | | | |
| Justification: | | | | | | |
| <p>FY 10 OCO Funding in the amount of \$18.300 million procures sensors which will allow for full day and night time operations across the CH fleet. A total of seven day/night sensors will be procured, tested and integrated on the CH aircraft in Iraq and Afghanistan. This fills a major void in CH operations and rounds out the entire fleet of CH aircraft with this capability. The CH IR sensors development is on contract with BAE in Greenlawn, NY. A minimum number of these sensors called (AWAPSS-Airborne Wide Area Persistent Surveillance System) are being built and tested in FY09 and early FY 10 in preparation for fielding of this capability in FY 10 to Iraq. No sensors have been procured for Afghanistan. MIT Lincoln Labs provides the ground processing capability for CH and will need to upgrade their equipment to accept this new CH sensor.</p> | | | | | | |

| | |
|---|----------------|
| Exhibit P-40M, Budget Item Justification Sheet | Date: May 2009 |
|---|----------------|

| | |
|---|---|
| Appropriation / Budget Activity / Serial No: Aircraft Procurement, Army / 2 / Modification of aircraft | P-1 Item Nomenclature CONSTANT HAWK (MIP) (AZ2054) |
|---|---|

| | | |
|------------------------------------|-------|---------------------------------|
| Program Elements for Code B Items: | Code: | Other Related Program Elements: |
|------------------------------------|-------|---------------------------------|

| Description | | Fiscal Years | | | | |
|--|----------------|--------------|---------|---------|-----|-------|
| OSIP No. | Classification | 2008 & PR | FY 2009 | FY 2010 | TC | Total |
| Constant Hawk - Iraq IR Sensors Upgrade | | | | | | |
| 1-07-00-OCO | U | 0.0 | 0.0 | 8.0 | 0.0 | 8.0 |
| Constant Hawk - Afghanistan IR Sensors Upgrade | | | | | | |
| 1-08-00-OCO | U | 0.0 | 0.0 | 10.3 | 0.0 | 10.3 |
| Totals | | 0.0 | 0.0 | 18.3 | 0.0 | 18.3 |

INDIVIDUAL MODIFICATION

Date: May 2009

MODIFICATION TITLE: Constant Hawk - Iraq IR Sensors Upgrade [MOD 1] 1-07-00-OCO

MODELS OF SYSTEM AFFECTED: Constant Hawk-I Sys 1-4

DESCRIPTION / JUSTIFICATION:
 This funding will provide the integration of 3 additional day/night CH sensors (AWAPSS) and the testing and integration of those sensors on CH aircraft in theater. Two will be integrated on aircraft in theater and the third will be integrated on the test-bed aircraft CONUS for training support. This effort will also support upgrades to the CH ground processing facilities to allow for processing, analysis and dissemination of data to commanders.

DEVELOPMENT STATUS / MAJOR DEVELOPMENT MILESTONE(S):
 DEVELOPMENT STATUS / MAJOR DEVELOPMENT MILESTONE(S):
 2QFY08: Contract award of the AWAPSS (CH IR sensor)
 4QFY08: CDR for AWAPSS
 3-4QFY09: Flight testing of AWAPSS on surrogate aircraft
 1QFY10: Flight testing on CH-I test-bed aircraft
 2-3QFY10: Field two AWAPSS to CH-I
 1QFY10: procure three additional AWAPSS sensors
 4QFY10: Receive 3 AWAPSS sensors
 1-2QFY11: Integrate two AWAPSS sensors on CH-I in theater with one spare

Installation Schedule

| Pr Yr Totals | FY 2009 | | | | FY 2010 | | | | FY 2011 | | | | FY 2012 | | | | FY 2013 | | | |
|-----------------|---------|---|---|---|---------|---|---|---|---------|---|---|---|---------|---|---|---|---------|---|---|---|
| | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 |
| Inputs | | | | | | | | | 1 | 1 | | | | | | | | | | |
| Outputs | | | | | | | | | 1 | 1 | | | | | | | | | | |

| | FY 2014 | | | | FY 2015 | | | | FY 2016 | | | | FY 2017 | | | | To Complete | Totals |
|---------|---------|---|---|---|---------|---|---|---|---------|---|---|---|---------|---|---|---|----------------|--------|
| | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 | | |
| Inputs | | | | | | | | | | | | | | | | | | 2 |
| Outputs | | | | | | | | | | | | | | | | | | 2 |

METHOD OF IMPLEMENTATION: ADMINISTRATIVE LEADTIME: 0 months PRODUCTION LEADTIME: 0 months
 Contract Dates: FY 2010 - FY 2011 - FY 2012 -
 Delivery Dates: FY 2010 - FY 2011 - FY 2012 -

INDIVIDUAL MODIFICATION

Date: May 2009

MODIFICATION TITLE (cont): Constant Hawk - Iraq IR Sensors Upgrade [MOD 1] 1-07-00-OCO

FINANCIAL PLAN: (\$ in Millions)

| | FY 2008 and Prior | | 2009 | | 2010 | | TC | | Total | |
|---------------------------------|----------------------|-----|------|-----|------|-----|-----|-----|-------|-----|
| | Qty | \$ | Qty | \$ | Qty | \$ | Qty | \$ | Qty | \$ |
| | RDT&E | | | | | | | | | |
| Procurement | | | | | | | | | | |
| AWAPSS HW | | | | | 2 | 3.0 | | | 2 | 3.0 |
| Nonrecurring Engineering | | | | | | 3.0 | | | | 3.0 |
| Training/Spare Equipment | | | | | 1 | 1.5 | | | 1 | 1.5 |
| Support Equipment | | | | | | 0.5 | | | | 0.5 |
| CH-I Integration | | | | | | | | | | |
| Installation of Hardware | | | | | | | | | | |
| FY 2008 & Prior Equip -- Kits | | | | | | | | | | |
| FY 2009 -- Kits | | | | | | | | | | |
| FY 2010 Equip -- Kits | | | | | | | | | | |
| FY 2011 Equip -- Kits | | | | | | | | | | |
| FY 2012 Equip -- Kits | | | | | | | | | | |
| FY 2013 Equip -- Kits | | | | | | | | | | |
| FY 2014 Equip -- Kits | | | | | | | | | | |
| FY 2015 Equip -- Kits | | | | | | | | | | |
| TC Equip- Kits | | | | | | | | | | |
| Total Installment | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 |
| Total Procurement Cost | | 0.0 | | 0.0 | | 8.0 | | 0.0 | | 8.0 |

INDIVIDUAL MODIFICATION

Date: May 2009

MODIFICATION TITLE: Constant Hawk - Afghanistan IR Sensors Upgrade [MOD 2] 1-08-00-OCO

MODELS OF SYSTEM AFFECTED: Constant Hawk-A Systems 1-3

DESCRIPTION / JUSTIFICATION:
 This funding will provide the integration of 3 additional day/night CH sensors (AWAPSS) and the testing and integration of those sensors on CH aircraft in theater. Two will be integrated on aircraft in theater and the third will be integrated on the test-bed aircraft CONUS for training support. This effort will also support upgrades to the CH ground processing facilities to allow for processing, analysis and dissemination of data to commanders.

DEVELOPMENT STATUS / MAJOR DEVELOPMENT MILESTONE(S):
 DEVELOPMENT STATUS / MAJOR DEVELOPMENT MILESTONE(S):
 2QFY08: Contract award of the AWAPSS (CH IR sensor)
 4QFY08: CDR for AWAPSS
 3-4QFY09: Flight testing of AWAPSS on surrogate aircraft
 1QFY10: Flight testing on CH-I test-bed aircraft
 2-3QFY10: Field two AWAPSS to CH-I
 1QFY10: procure three additional AWAPSS sensors
 4QFY10: Receive 3 AWAPSS sensors
 1-2QFY11: Integrate two AWAPSS sensors on CH-I in theater with one spare

Installation Schedule

| | Pr Yr Totals | FY 2009 | | | | FY 2010 | | | | FY 2011 | | | | FY 2012 | | | | FY 2013 | | | |
|---------|-----------------|---------|---|---|---|---------|---|---|---|---------|---|---|---|---------|---|---|---|---------|---|---|---|
| | | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 |
| Inputs | | | | | | | | | | 1 | 2 | | | | | | | | | | |
| Outputs | | | | | | | | | | 1 | 2 | | | | | | | | | | |

| | FY 2014 | | | | FY 2015 | | | | FY 2016 | | | | FY 2017 | | | | To Complete | Totals |
|---------|---------|---|---|---|---------|---|---|---|---------|---|---|---|---------|---|---|---|----------------|--------|
| | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 | | |
| Inputs | | | | | | | | | | | | | | | | | | 3 |
| Outputs | | | | | | | | | | | | | | | | | | 3 |

METHOD OF IMPLEMENTATION: ADMINISTRATIVE LEADTIME: 0 months PRODUCTION LEADTIME: 0 months
 Contract Dates: FY 2010 - FY 2011 - FY 2012 -
 Delivery Dates: FY 2010 - FY 2011 - FY 2012 -

INDIVIDUAL MODIFICATION

Date: May 2009

MODIFICATION TITLE (cont): Constant Hawk - Afghanistan IR Sensors Upgrade [MOD 2] 1-08-00-OCO

FINANCIAL PLAN: (\$ in Millions)

| | FY 2008 and Prior | | 2009 | | 2010 | | TC | | Total | |
|---------------------------------|----------------------|-----|------|-----|------|------|-----|-----|-------|------|
| | Qty | \$ | Qty | \$ | Qty | \$ | Qty | \$ | Qty | \$ |
| | RDT&E | | | | | | | | | |
| Procurement | | | | | | | | | | |
| AWAPSS HW | | | | | 3 | 4.5 | | | 3 | 4.5 |
| Nonrecurring Engineering | | | | | | 3.5 | | | | 3.5 |
| Training Equipment | | | | | | 1.5 | | | | 1.5 |
| Support Equipment | | | | | | 0.8 | | | | 0.8 |
| CH-A System Integration | | | | | | | | | | |
| Installation of Hardware | | | | | | | | | | |
| FY 2008 & Prior Equip -- Kits | | | | | | | | | | |
| FY 2009 -- Kits | | | | | | | | | | |
| FY 2010 Equip -- Kits | | | | | | | | | | |
| FY 2011 Equip -- Kits | | | | | | | | | | |
| FY 2012 Equip -- Kits | | | | | | | | | | |
| FY 2013 Equip -- Kits | | | | | | | | | | |
| FY 2014 Equip -- Kits | | | | | | | | | | |
| FY 2015 Equip -- Kits | | | | | | | | | | |
| TC Equip- Kits | | | | | | | | | | |
| Total Installment | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 |
| Total Procurement Cost | | 0.0 | | 0.0 | | 10.3 | | 0.0 | | 10.3 |

| | | | | | | |
|--|-------------|---------|--|---|-------------|----------------|
| Exhibit P-40, Budget Item Justification Sheet | | | | | | Date: May 2009 |
| Appropriation / Budget Activity / Serial No: Aircraft Procurement, Army / 2 / Modification of aircraft | | | | P-1 Item Nomenclature AH-64 APACHE MODS (AA6605) | | |
| Program Elements for Code B Items: | | Code: | Other Related Program Elements: AA6670, AA0951, PE23744 D12 & D17 | | | |
| | Prior Years | FY 2008 | FY 2009 | FY 2010 | To Complete | Total Prog |
| Proc Qty | | | | | | |
| Gross Cost | 3346.4 | 855.9 | 1013.9 | 771.0 | | 5987.2 |
| Less PY Adv Proc | 38.7 | 38.9 | 51.4 | 29.3 | | 158.3 |
| Plus CY Adv Proc | 77.7 | 51.4 | 29.3 | | | 158.3 |
| Net Proc P1 | 3385.3 | 868.4 | 991.8 | 741.7 | | 5987.2 |
| Initial Spares | 896.1 | 3.9 | | | | 900.0 |
| Total Proc Cost | 4281.4 | 872.2 | 991.8 | 741.7 | | 6887.2 |
| Flyaway U/C | | | | | | |
| Weapon System Proc U/C | | | | | | |
| Description: Program provides for an Apache Attack Helicopter fleet to meet the AAO of 634 AH-64D model Apache attack helicopters in the Block III configuration, all equipped with a single main rotor, twin engines, and a tandem cockpit. In addition, 13 Longbow War Replacement Aircraft (WRA)(replenishments for combat attrition) were added to the Longbow budget line in the FY 05 supplemental appropriation, 14 aircraft were added to this budget line in FY 06, 20 aircraft in FY07, and 5 in FY08. Principal aircraft components are: the Target Acquisition Designation Sight (TADS) is housed in a turret on the nose of the AH-64 and consists of a TV, Forward Looking Infrared (FLIR), Direct View Optics, Laser Designator/ Rangefinder and Spot Tracker. The Pilot Night Vision Sensor (PNVS) is a FLIR which allows Nap-of-Earth operations at night by the pilot independent of the co-pilot/gunner's FLIR. The Apache aircraft is armed with the Hellfire Antitank Missile, 2.75 inch rockets, and a 30mm gun capable of defeating armor by day or night and in adverse weather. The more advanced Longbow Apache aircraft (AH-64D) incorporates the Longbow weapon system and provides the U.S. Army with a significant improvement in target acquisition and firepower effectiveness, increasing the survivability, lethality, and adverse weather fighting capabilities of the Apache. The AH-64D model is equipped with a modified AH-64 airframe, a Fire Control Radar (FCR)/ Radar Frequency Interferometer (RFI) mission kit, and "Fire and Forget" Longbow HELLFIRE missiles. Modernization provides near term improvements to the Apache fleet, focusing on reliability and safety (R&S) upgrades and operational deficiencies. The Modernized TADS/PNVS (M-TADS/PNVS) program provides a second generation FLIR (SGF) sensor suite to the Apache. The Internal Auxiliary Fuel System (IAFS)/Combo-Pak provides additional 100 gallon fuel tank for extended range plus a 30 MM 246 round ammo pack. This is a Task Force Hawk initiative increasing performance in the Global War on Terrorism. Modifications specifically for the AH-64D include Selected Component Recapitalization, FCR Obsolescence, Trainer Upgrades, Light Weight Missile Launcher (LWML) and the Apache Block III (AB3). Modifications also include the remanufacture of an additional 140 AH-64A to the AH-64D Extended Block II Upgrade configuration via a single year contract, with options. | | | | | | |
| Justification: FY 10 Base funding in the amount of \$426.4M will procure: Apache Sensors Life Extension and Upgrades, Internal Auxiliary Fuel System (IAFS), Apache Product Improvements, Modernized TADS/PNVS, Fire Control Radars, Advanced Procurement items, Apache Upgrades and Remanufacture, and Apache Post Production Organic Support. FY 10 OCO funding in the amount of \$315.3M will 4 Longbow War Replacement Aircraft (WRA). | | | | | | |

| Exhibit P-40M, Budget Item Justification Sheet | | | | | | Date: |
|---|----------------|---------------|---|--------------|--|---------------|
| Appropriation / Budget Activity / Serial No: Aircraft Procurement, Army / 2 / Modification of aircraft | | | P-1 Item Nomenclature AH-64 APACHE MODS (AA6605) | | | |
| Program Elements for Code B Items: | | | | Code: | Other Related Program Elements: AA6670, AA0951, PE23744 D12 & D17 | |
| Description | | Fiscal Years | | | | |
| OSIP No. | Classification | 2008 & PR | FY 2009 | FY 2010 | TC | Total |
| Apache Sensors Life Extension & Upgrade | | | | | | |
| 1-94-01-2005 | | 137.2 | 10.6 | 8.6 | 0.0 | 156.4 |
| AH-64A MISC Mods \$5M or less (no P3a set) | | | | | | |
| OSIP | | 728.0 | 8.2 | 0.0 | 0.0 | 736.2 |
| Apache Transformation | | | | | | |
| OSIP | | 46.2 | 4.9 | 0.0 | 0.0 | 51.1 |
| Modernized TADS/PNVS (M-TADS) | | | | | | |
| 1-01-01-0022 | | 709.0 | 101.4 | 24.6 | 0.0 | 835.0 |
| Apache Upgrades and Remanufacture | | | | | | |
| OSIP | | 947.0 | 441.7 | 333.4 | 0.0 | 1722.1 |
| Fire Control Radar | | | | | | |
| 0-00-00-0000 | | 0.0 | 0.0 | 27.7 | 0.0 | 27.7 |
| Video from UAS Interoperability Teaming (VUIT-2) | | | | | | |
| 0-00-00-0000 | | 0.0 | 0.0 | 176.9 | 0.0 | 176.9 |
| AH-64D Longbow War Replacement Aircraft (WRA) | | | | | | |
| 0-00-00-0000 | | 0.0 | 343.5 | 138.4 | 0.0 | 481.9 |
| Apache Product Improvements | | | | | | |
| OSIP | | 197.9 | 25.2 | 13.0 | 0.0 | 236.1 |
| Apache Block III | | | | | | |
| OSIP | | 0.0 | 11.1 | 0.0 | 0.0 | 11.1 |
| Internal Auxiliary Fuel System (IAFS) | | | | | | |
| OSIP | | 69.2 | 39.0 | 10.0 | 0.0 | 118.2 |
| Apache Post Production Organic Support | | | | | | |
| OSIP | | 4.5 | 6.2 | 9.1 | 0.0 | 19.8 |
| Totals | | 2839.0 | 991.8 | 741.7 | 0.0 | 4572.5 |

INDIVIDUAL MODIFICATION

Date: May 2009

MODIFICATION TITLE: Apache Sensors Life Extension & Upgrade [MOD 1] 1-94-01-2005

MODELS OF SYSTEM AFFECTED: AH-64 Apache

DESCRIPTION / JUSTIFICATION:

Operational and logistical improvement. This is a critical stage in the Longbow remanufacturing effort as it produces a single configuration MTADS for AH64 Extended Block II Upgrade (117 aircraft) and Longbow Apache Block III (AB3). This mod facilitates maintainers' access to TADS/PNVs/MTADS systems thereby allowing for accelerated application of outstanding ECPs. Additionally, satisfies program growth and life extension requirements and provides for offsite contractor support for upgrade/integration of hardware in the TADS/PNVs/MTADS. Funding is required throughout the AB3 program to overhaul sensors/TEDACs, etc., through the Arizona Support facility to the proper configuration for the AB3 aircraft. Funding will satisfy emerging requirements for zero timing all Apache Sensors to include TADS/PNVs, MTADS, FCR, RFI, and TEDAC.

Installation costs are included in contract and are not broken out separately.

DEVELOPMENT STATUS / MAJOR DEVELOPMENT MILESTONE(S):

Initial contract award was Dec 95. Date of first delivery was Jun 96.

Installation Schedule

| Pr Yr Totals | FY 2009 | | | | FY 2010 | | | | FY 2011 | | | | FY 2012 | | | | FY 2013 | | | | |
|-----------------|---------|---|---|---|---------|---|---|---|---------|---|---|---|---------|---|---|---|---------|---|---|---|--|
| | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 | |
| Inputs | 579 | 6 | 6 | 6 | 9 | 9 | 9 | 9 | 9 | | | | | | | | | | | | |
| Outputs | 561 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | | | | | | | | | | | | |

| | FY 2014 | | | | FY 2015 | | | | FY 2016 | | | | FY 2017 | | | | To Complete | Totals | | | |
|---------|---------|---|---|---|---------|---|---|---|---------|---|---|---|---------|---|---|---|----------------|--------|--|--|-----|
| | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 | | | | | |
| Inputs | | | | | | | | | | | | | | | | | | | | | 642 |
| Outputs | | | | | | | | | | | | | | | | | | | | | 633 |

METHOD OF IMPLEMENTATION: Contract ADMINISTRATIVE LEADTIME: 2 months PRODUCTION LEADTIME: 1 months
 Contract Dates: FY 2010 - Nov 09 FY 2011 - Nov 10 FY 2012 - Nov 11
 Delivery Dates: FY 2010 - Dec 09 FY 2011 - Dec 10 FY 2012 - Dec 11

INDIVIDUAL MODIFICATION

Date: May 2009

MODIFICATION TITLE (cont): Apache Sensors Life Extension & Upgrade [MOD 1] 1-94-01-2005

FINANCIAL PLAN: (\$ in Millions)

| | FY 2008 and Prior | | 2009 | | 2010 | | TC | | Total | |
|---------------------------------|----------------------|-------|------|------|------|-----|-----|-----|-------|-------|
| | Qty | \$ | Qty | \$ | Qty | \$ | Qty | \$ | Qty | \$ |
| | RDT&E | | | | | | | | | |
| Procurement | | | | | | | | | | |
| Kit Quantity | 561 | | 36 | | 36 | | | | 633 | |
| T/P FFP/T&M/CFE/O&A | | 93.0 | | 6.2 | | 6.8 | | | | 106.0 |
| Equipment (GFE) | | 40.3 | | 3.6 | | 1.0 | | | | 44.9 |
| Other | | 3.9 | | 0.8 | | 0.8 | | | | 5.5 |
| Installation of Hardware | | | | | | | | | | |
| FY 2007 & Prior Equip -- Kits | 537 | | | | | | | | 537 | |
| FY 2008 -- Kits | 24 | | 12 | | | | | | 36 | |
| FY 2009 Equip -- 36 Kits | | | 24 | | 12 | | | | 36 | |
| FY 2010 Equip -- 36 Kits | | | | | 24 | | | | 24 | |
| FY 2011 Equip -- 36 Kits | | | | | | | | | | |
| FY 2012 Equip -- 45 Kits | | | | | | | | | | |
| FY 2013 Equip -- 45 Kits | | | | | | | | | | |
| FY 2014 Equip -- 48 Kits | | | | | | | | | | |
| FY 2015 Equip -- 48 Kits | | | | | | | | | | |
| Total Installment | 561 | 0.0 | 36 | 0.0 | 36 | 0.0 | 0 | 0.0 | 633 | 0.0 |
| Total Procurement Cost | | 137.2 | | 10.6 | | 8.6 | | 0.0 | | 156.4 |

INDIVIDUAL MODIFICATION

Date: May 2009

MODIFICATION TITLE: Modernized TADS/PNVs (M-TADS) [MOD 4] 1-01-01-0022

MODELS OF SYSTEM AFFECTED: AH-64D Apache Helicopter

DESCRIPTION / JUSTIFICATION:

The Modernized Target Acquisition & Designation Sight/Pilot Night Vision Sensor (M-TADS/PNVs) modification program is the Army initiative to provide 2nd Generation Forward Looking Infrared (SGF)(FLIR) sensors for the Apache fleet. Suite modifications encompass: M-TADS/PNVs Line Replaceable Units (LRUs), TADS Electronic Display and Control (TEDAC) assemblies, and the Integrated Helmet Display Sight System (IHDSS) assemblies. The SGF system improves overall pilotage and enhances the pilot's ability to engage targets during night and bad weather. Specifically: increased detection range, enhanced recognition and target identification; higher resolution and sensitivity for safety and pilotage performance (especially in adverse weather); better identifying of friend/foe during hostilities; and increased reliability and reduction in O&S costs. The complementary TEDAC and IHDSS upgrade reduces operating costs, increases cockpit space, and exploits the expanded capability of the M-TADS/PNVs. This exhibit identifies funding for 542 of a total of 706 M-TADS production units and associated displays.

DEVELOPMENT STATUS / MAJOR DEVELOPMENT MILESTONE(S):

Jan 01 -- Preliminary Design Review (PDR); Aug 01 -- Critical Design Review (CDR)
 May 02 -- Qualification testing; Dec 03 -- M-TADS/PNVs Production Contract Award; June 05 -- M-TADS/PNVs FUE
 Feb 08 -- MTADS/PNVs Lot 5 Production Contract Award (Price Agreement reached Dec 07)
 Feb 09 -- Projected MTADS/PNVs Lot 6 Production Contract Award
 Sep 09 -- Projected MTADS/PNVs Lot 7 Production Contract Award
 Nov 09 -- Contract Option
 Nov 10 -- Contract Option

Installation Schedule

| Pr Yr Totals | FY 2009 | | | | FY 2010 | | | | FY 2011 | | | | FY 2012 | | | | FY 2013 | | | |
|-----------------|---------|----|----|----|---------|----|----|----|---------|---|---|---|---------|---|---|---|---------|---|---|---|
| | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 |
| Inputs | 158 | 36 | 36 | 36 | 36 | 36 | 36 | 36 | 36 | | | | | | | | | | | |
| Outputs | 158 | 36 | 36 | 36 | 36 | 36 | 36 | 36 | 36 | | | | | | | | | | | |

| | FY 2014 | | | | FY 2015 | | | | FY 2016 | | | | FY 2017 | | | | To Complete | Totals | | |
|---------|---------|---|---|---|---------|---|---|---|---------|---|---|---|---------|---|---|---|----------------|--------|--|-----|
| | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 | | | | |
| Inputs | | | | | | | | | | | | | | | | | | | | 446 |
| Outputs | | | | | | | | | | | | | | | | | | | | 446 |

METHOD OF IMPLEMENTATION: Contract **ADMINISTRATIVE LEADTIME:** 2 months **PRODUCTION LEADTIME:** 19 months
Contract Dates: FY 2010 - Nov 09 FY 2011 - Nov 10 FY 2012 - Nov 11
Delivery Dates: FY 2010 - Jun 11 FY 2011 - Jun 12 FY 2012 - Jun 13

INDIVIDUAL MODIFICATION

Date: May 2009

MODIFICATION TITLE (cont): Modernized TADS/PNVS (M-TADS) [MOD 4] 1-01-01-0022

FINANCIAL PLAN: (\$ in Millions)

| | FY 2008 and Prior | | 2009 | | 2010 | | TC | | Total | |
|---------------------------------|----------------------|-------|------|-------|------|------|-----|-----|-------|-------|
| | Qty | \$ | Qty | \$ | Qty | \$ | Qty | \$ | Qty | \$ |
| | RDT&E | | | | | | | | | |
| Procurement | | | | | | | | | | |
| Kit Quantity | | | | | | | | | | |
| Installation Kits | | | | | | | | | | |
| SDU | | | | 1.4 | | | | | | 1.4 |
| Equipment | 415 | 588.3 | 55 | 90.0 | 12 | 24.6 | | | 482 | 702.9 |
| Equipment, Nonrecurring | | 21.3 | | | | | | | | 21.3 |
| TEDAC/IHDSS | | 62.2 | | 5.0 | | | | | | 67.2 |
| Other Support | | 37.2 | | 5.0 | | | | | | 42.2 |
| Installation of Hardware | | | | | | | | | | |
| FY 2007 & Prior Equip -- Kits | 158 | | 144 | | 19 | | | | 321 | |
| FY 2008 -- 94 Kits | | | | | 94 | | | | 94 | |
| FY 2009 Equip -- 55 Kits | | | | | 31 | | | | 31 | |
| FY 2010 Equip -- 12 Kits | | | | | | | | | | |
| FY 2011 Equip -- 12 Kits | | | | | | | | | | |
| FY 2012 Equip -- 30 Kits | | | | | | | | | | |
| FY 2013 Equip -- 18 Kits | | | | | | | | | | |
| FY 2014 Equip -- Kits | | | | | | | | | | |
| TC Equip- 0 Kits | | | | | | | | | | |
| Total Installment | 158 | 0.0 | 144 | 0.0 | 144 | 0.0 | 0 | 0.0 | 446 | 0.0 |
| Total Procurement Cost | | 709.0 | | 101.4 | | 24.6 | | 0.0 | | 835.0 |

INDIVIDUAL MODIFICATION

Date: May 2009

MODIFICATION TITLE: Apache Upgrades and Remanufacture [MOD 5] OSIP

MODELS OF SYSTEM AFFECTED: AH-64 Apache

DESCRIPTION / JUSTIFICATION:

Funding for the AH-64 Extended Block II Upgrade supports the remanufacture of additional AH-64A aircraft to the AH-64D configuration. The schedule generates greater attack helicopter combat power for the War-fight sooner and accelerates Reserve Component modernization by cascading Longbow Block I aircraft directly to USAR and ARNG Apache battalions. By modernizing additional AH-64As, the Army is acknowledging concerns of OSD and Congress by mapping out a strategy for the entire Apache fleet. Funding the obsolescence requirement promotes increased readiness and decreased total ownership cost of the existing Apache fleet. Critical software enhancements supporting GWOT will now be available to Apache commanders and aircrew. These improvements are vital to conducting the attack helicopter mission, provide critical safety improvements to protect the aircrew from harm, and reduce loss of aircraft. Funding TADSS concurrency will support projected student through-put for MOS producing classes.

DEVELOPMENT STATUS / MAJOR DEVELOPMENT MILESTONE(S):

Contract Award Dec 2006 (FY 07)
 Contract Options (FY 08-10) -- Extended Block 2 (EBII)
 Contract Awards, Dec 09, Dec 10

Installation Schedule

| | Pr Yr Totals | FY 2009 | | | | FY 2010 | | | | FY 2011 | | | | FY 2012 | | | | FY 2013 | | | |
|---------|-----------------|---------|---|---|---|---------|---|---|---|---------|---|---|---|---------|---|---|---|---------|---|---|---|
| | | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 |
| Inputs | 72 | 9 | 9 | 8 | 6 | 5 | 5 | 2 | | | | | | | | | | | | | |
| Outputs | 36 | 9 | 9 | 9 | 9 | 9 | 9 | 8 | 6 | | | | | | | | | | | | |

| | FY 2014 | | | | FY 2015 | | | | FY 2016 | | | | FY 2017 | | | | To Complete | Totals |
|---------|---------|---|---|---|---------|---|---|---|---------|---|---|---|---------|---|---|---|----------------|--------|
| | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 | | |
| Inputs | | | | | | | | | | | | | | | | | | 116 |
| Outputs | | | | | | | | | | | | | | | | | | 104 |

METHOD OF IMPLEMENTATION: Firm Fixed Price **ADMINISTRATIVE LEADTIME:** 3 months **PRODUCTION LEADTIME:** 12 months
 Contract
 Contract Dates: FY 2010 - Dec 09 FY 2011 - Dec 10 FY 2012 -
 Delivery Dates: FY 2010 - Dec 10 FY 2011 - Jan 13 FY 2012 -

INDIVIDUAL MODIFICATION

Date: May 2009

MODIFICATION TITLE (cont): Apache Upgrades and Remanufacture [MOD 5] OSIP

FINANCIAL PLAN: (\$ in Millions)

| | FY 2008 and Prior | | 2009 | | 2010 | | TC | | Total | |
|---------------------------------|----------------------|-------|------|-------|------|-------|-----|-----|-------|--------|
| | Qty | \$ | Qty | \$ | Qty | \$ | Qty | \$ | Qty | \$ |
| | Procurement | | | | | | | | | |
| Kit Quantity/Equipment | 72 | 754.1 | 32 | 372.0 | 12 | 150.2 | | | 116 | 1276.3 |
| NG Aircraft | | | | | 12 | 161.9 | | | 12 | 161.9 |
| Long Lead | | 118.3 | | 18.2 | | | | | | 136.5 |
| Other Support | | 74.6 | | 51.5 | | 21.3 | | | | 147.4 |
| Training | | | | | | | | | | |
| Software Upgrades | | | | | | | | | | |
| Obsolescence | | | | | | | | | | |
| Installation of Hardware | | | | | | | | | | |
| FY 2007 & Prior Equip -- Kits | 36 | | | | | | | | 36 | |
| FY 2008 -- Kits | | | 36 | | | | | | | 36 |
| FY 2009 Equip -- 32 Kits | | | | | 32 | | | | | 32 |
| FY 2010 Equip -- 12 Kits | | | | | | | 12 | | | 12 |
| FY 2010 NG Equip -- 12 Kits | | | | | | | 12 | | | 12 |
| FY 2011 Equip -- Kits | | | | | | | | | | |
| FY 2012 Equip -- Kits | | | | | | | | | | |
| FY 2013 Equip -- Kits | | | | | | | | | | |
| FY 2014 Equip -- Kits | | | | | | | | | | |
| TC Equip- Kits | | | | | | | | | | |
| Total Installment | 36 | 0.0 | 36 | 0.0 | 32 | 0.0 | 24 | 0.0 | 128 | 0.0 |
| Total Procurement Cost | | 947.0 | | 441.7 | | 333.4 | | 0.0 | | 1722.1 |

INDIVIDUAL MODIFICATION

Date: May 2009

MODIFICATION TITLE: Fire Control Radar [MOD 6] 0-00-00-0000

MODELS OF SYSTEM AFFECTED: AH-64 Apache

DESCRIPTION / JUSTIFICATION:

The FCR is a monopulse, coherent Doppler radar system. It is a multimode system capable of acquiring moving and stationary targets in ground and air environments. It also provides navigational and piloting information on the surrounding terrain. The FCR, in combination with the Radio Frequency (RF) missile, provides the Longbow Apache with fire-and-forget capability. The FCR includes a MMA, LPRF, PSP, and RFI LRU. This provides the aircrew with the capability to detect and locate moving and stationary ground targets, helicopters, and fixed wing aircraft, even when operating in limited adverse weather or minimum visibility conditions. The mast-mounted Radar Frequency Interferometer (RFI) provides threat emitter warning and azimuth direction finding/cueing. Target information is sent to the Weapons Processor (WP). Target coordinates are sorted and sent to the Display Processor (DP) for target symbology presentation on the FCR page or Tactical Situation Display (TSD) page. Target and threat information can also be selected for FCR symbology overlay on TADS/PNVIS video.

DEVELOPMENT STATUS / MAJOR DEVELOPMENT MILESTONE(S):

Jan 10 - Projected FCR/RFI Production Contract Award Base with 3 Options

Installation Schedule

| Pr Yr Totals | FY 2009 | | | | FY 2010 | | | | FY 2011 | | | | FY 2012 | | | | FY 2013 | | | |
|-----------------|---------|---|---|---|---------|---|---|---|---------|---|---|---|---------|---|---|---|---------|---|---|---|
| | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 |
| Inputs | | | | | | | | | | | | | | | | | | | | |
| Outputs | | | | | | | | | | | | | | | | | | | | |

| Pr Yr Totals | FY 2014 | | | | FY 2015 | | | | FY 2016 | | | | FY 2017 | | | | To Complete | Totals |
|-----------------|---------|---|---|---|---------|---|---|---|---------|---|---|---|---------|---|---|---|----------------|--------|
| | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 | | |
| Inputs | | | | | | | | | | | | | | | | | | |
| Outputs | | | | | | | | | | | | | | | | | | |

METHOD OF IMPLEMENTATION: Contract ADMINISTRATIVE LEADTIME: 4 months PRODUCTION LEADTIME: 24 months
 Contract Dates: FY 2010 - Jan 10 FY 2011 - Jan 11 FY 2012 - Jan 12
 Delivery Dates: FY 2010 - Dec 11 FY 2011 - Dec 12 FY 2012 - Dec 13

INDIVIDUAL MODIFICATION

Date: May 2009

MODIFICATION TITLE (cont): Fire Control Radar [MOD 6] 0-00-00-0000

FINANCIAL PLAN: (\$ in Millions)

| | FY 2008 and Prior | | 2009 | | 2010 | | TC | | Total | |
|---------------------------------|----------------------|-----|------|-----|------|------|-----|-----|-------|------|
| | Qty | \$ | Qty | \$ | Qty | \$ | Qty | \$ | Qty | \$ |
| | RDT&E | | | | | | | | | |
| Procurement | | | | | | | | | | |
| Kit Quantity | | | | | | | | | | |
| Installation Kits | | | | | 6 | 27.7 | | | 6 | 27.7 |
| Equipment | | | | | | | | | | |
| Other | | | | | | | | | | |
| Installation of Hardware | | | | | | | | | | |
| FY 2008 & Prior Equip -- Kits | | | | | | | | | | |
| FY 2009 -- Kits | | | | | | | | | | |
| FY 2010 Equip -- 6 Kits | | | | | | | | | | |
| FY 2011 Equip -- 3 Kits | | | | | | | | | | |
| FY 2012 Equip -- 9 Kits | | | | | | | | | | |
| FY 2013 Equip -- 9 Kits | | | | | | | | | | |
| FY 2014 Equip -- Kits | | | | | | | | | | |
| FY 2015 Equip -- Kits | | | | | | | | | | |
| TC Equip- Kits | | | | | | | | | | |
| Total Installment | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 |
| Total Procurement Cost | | 0.0 | | 0.0 | | 27.7 | | 0.0 | | 27.7 |

INDIVIDUAL MODIFICATION

Date: May 2009

MODIFICATION TITLE: Video from UAS Interoperability Teaming (VUIT-2) [MOD 7] 0-00-00-0000

MODELS OF SYSTEM AFFECTED: AH-64 Apache

DESCRIPTION / JUSTIFICATION:
 FY10 funding totals include \$176.9M in supplemental funding to procure 6 BN sets of 24 each plus spares of Apache Video Unmanned Aircraft System (UAS) Interoperability Teaming - Level II (Apache VUIT-2) capability to support Overseas Contingency Operations (OCO). VUIT-2 gives Apache pilots the capability to view UAS video in the cockpit and transmit sensor data to the ground, thus improving situational awareness and enabling real-time intelligence sharing. The complete modification includes UAS Level II interoperability and Apache sensor video transmission to the ground capabilities.

DEVELOPMENT STATUS / MAJOR DEVELOPMENT MILESTONE(S):
 Proposed contract award -- July 2010

Installation Schedule

| Pr Yr | FY 2009 | | | | FY 2010 | | | | FY 2011 | | | | FY 2012 | | | | FY 2013 | | | |
|---------------|---------|---|---|---|---------|---|---|---|---------|---|---|----|---------|----|----|----|---------|---|---|---|
| | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 |
| Totals | | | | | | | | | | | | 24 | 24 | 24 | 24 | 24 | 24 | | | |
| Inputs | | | | | | | | | | | | 24 | 24 | 24 | 24 | 24 | 24 | | | |
| Outputs | | | | | | | | | | | | 24 | 24 | 24 | 24 | 24 | 24 | | | |

| | FY 2014 | | | | FY 2015 | | | | FY 2016 | | | | FY 2017 | | | | To Complete | Totals | | |
|---------|---------|---|---|---|---------|---|---|---|---------|---|---|---|---------|---|---|---|-------------|--------|--|-----|
| | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 | | | | |
| Inputs | | | | | | | | | | | | | | | | | | | | 144 |
| Outputs | | | | | | | | | | | | | | | | | | | | 144 |

METHOD OF IMPLEMENTATION: Contract ADMINISTRATIVE LEADTIME: 8 months PRODUCTION LEADTIME: 12 months
 Contract Dates: FY 2010 - Jul 10 FY 2011 - FY 2012 -
 Delivery Dates: FY 2010 - Jul 11 FY 2011 - FY 2012 -

INDIVIDUAL MODIFICATION

Date: May 2009

MODIFICATION TITLE (cont): Video from UAS Interoperability Teaming (VUIT-2) [MOD 7] 0-00-00-0000

FINANCIAL PLAN: (\$ in Millions)

| | FY 2008 and Prior | | 2009 | | 2010 | | TC | | Total | |
|---------------------------------|----------------------|-----|------|-----|------|-------|-----|-----|-------|-------|
| | Qty | \$ | Qty | \$ | Qty | \$ | Qty | \$ | Qty | \$ |
| | RDT&E | | | | | | | | | |
| Procurement | | | | | | | | | | |
| Kit Quantity -- FY10 OCO | | | | | 144 | 176.9 | | | 144 | 176.9 |
| Installation Kits | | | | | | | | | | |
| Equipment | | | | | | | | | | |
| Data | | | | | | | | | | |
| Training Equipment | | | | | | | | | | |
| Support Equipment | | | | | | | | | | |
| Installation of Hardware | | | | | | | | | | |
| FY 2008 & Prior Equip -- Kits | | | | | | | | | | |
| FY 2009 -- Kits | | | | | | | | | | |
| FY 2010 Equip -- Kits | | | | | | | 144 | | 144 | |
| FY 2011 Equip -- Kits | | | | | | | | | | |
| FY 2012 Equip -- Kits | | | | | | | | | | |
| FY 2013 Equip -- Kits | | | | | | | | | | |
| FY 2014 Equip -- Kits | | | | | | | | | | |
| FY 2015 Equip -- Kits | | | | | | | | | | |
| TC Equip- Kits | | | | | | | | | | |
| Total Installment | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 | 144 | 0.0 | 144 | 0.0 |
| Total Procurement Cost | | 0.0 | | 0.0 | | 176.9 | | 0.0 | | 176.9 |

INDIVIDUAL MODIFICATION

Date: May 2009

MODIFICATION TITLE: AH-64D Longbow War Replacement Aircraft (WRA) [MOD 8] 0-00-00-0000

MODELS OF SYSTEM AFFECTED: Longbow Apache

DESCRIPTION / JUSTIFICATION:
 FY09 funding totals include \$343.6M in supplemental OCO funding which procures twelve (12) Longbow WRA (with Modernized TADS/PNVS and Aircraft Survivability Equipment) to replace those helicopters attrited during OIF/OEF. FY10 funding totals include \$138.4M requested to procure four (4) Longbow WRA. These replacement aircraft will be the same configuration as those produced under the remanufacturing contract, but will be fitted with a new fuselage and materials rather than being remanufactured.

DEVELOPMENT STATUS / MAJOR DEVELOPMENT MILESTONE(S):
 FY09 OCO 12 WRA Proposed Contract Award, Dec 09
 FY10 OCO 4 WRA Proposed Contract Award, Jun 10

Installation Schedule

| Pr Yr | FY 2009 | | | | FY 2010 | | | | FY 2011 | | | | FY 2012 | | | | FY 2013 | | | |
|---------|---------|---|---|---|---------|---|---|---|---------|---|---|---|---------|---|---|---|---------|---|---|---|
| | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 |
| Totals | | | | 3 | 3 | 3 | 3 | 2 | 2 | | | | | | | | | | | |
| Inputs | | | | | | | | | | | | | | | | | | | | |
| Outputs | | | | | | | | | | | | | | | | 3 | 3 | 3 | 3 | 2 |

| | FY 2014 | | | | FY 2015 | | | | FY 2016 | | | | FY 2017 | | | | To Complete | Totals | | |
|---------|---------|---|---|---|---------|---|---|---|---------|---|---|---|---------|---|---|---|-------------|--------|--|----|
| | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 | | | | |
| Inputs | | | | | | | | | | | | | | | | | | | | 16 |
| Outputs | 2 | | | | | | | | | | | | | | | | | | | 16 |

METHOD OF IMPLEMENTATION: Contract ADMINISTRATIVE LEADTIME: 6 months PRODUCTION LEADTIME: 36 months
 Contract Dates: FY 2010 - Dec 09 FY 2011 - FY 2012 -
 Delivery Dates: FY 2010 - Dec 12 FY 2011 - FY 2012 -

INDIVIDUAL MODIFICATION

Date: May 2009

MODIFICATION TITLE (cont): AH-64D Longbow War Replacement Aircraft (WRA) [MOD 8] 0-00-00-0000

FINANCIAL PLAN: (\$ in Millions)

| | FY 2008 and Prior | | 2009 | | 2010 | | TC | | Total | |
|---------------------------------|----------------------|-----|------|-------|------|-------|-----|-----|-------|-------|
| | Qty | \$ | Qty | \$ | Qty | \$ | Qty | \$ | Qty | \$ |
| | RDT&E | | | | | | | | | |
| Procurement | | | | | | | | | | |
| FY09 OCO WRA | | | 12 | 343.5 | | | | | 12 | 343.5 |
| FY10 OCO WRA | | | | | 4 | 138.4 | | | 4 | 138.4 |
| Kit Quantity | | | | | | | | | | |
| Data | | | | | | | | | | |
| Training Equipment | | | | | | | | | | |
| Support Equipment | | | | | | | | | | |
| Installation of Hardware | | | | | | | | | | |
| FY 2008 & Prior Equip -- Kits | | | | | | | | | | |
| FY 2009 -- Kits | | | | | | | 12 | | 12 | |
| FY 2010 Equip -- Kits | | | | | | | 4 | | 4 | |
| FY 2011 Equip -- Kits | | | | | | | | | | |
| FY 2012 Equip -- Kits | | | | | | | | | | |
| FY 2013 Equip -- Kits | | | | | | | | | | |
| FY 2014 Equip -- Kits | | | | | | | | | | |
| FY 2015 Equip -- Kits | | | | | | | | | | |
| TC Equip- Kits | | | | | | | | | | |
| Total Installment | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 | 16 | 0.0 | 16 | 0.0 |
| Total Procurement Cost | | 0.0 | | 343.5 | | 138.4 | | 0.0 | | 481.9 |

INDIVIDUAL MODIFICATION

Date: May 2009

MODIFICATION TITLE: Apache Product Improvements [MOD 9] OSIP

MODELS OF SYSTEM AFFECTED: AH-64 Apache Helicopter

DESCRIPTION / JUSTIFICATION:

Apache Mods and Recap provides near term improvements to the Apache fleet, focusing on reliability & safety (R&S) upgrades and operational deficiencies. The R&S mods and selected component recapitalization are being accomplished by the reman line, field retrofits, and through spares. Improvements focus on: main transmission, rotor blades, gear boxes, and hydraulic systems. Funding also provides for selected component recap and insertion of R&S mods for the Apache fleet. The program also includes select Task Force Hawk initiatives (i.e., HF Radio and New Digital Video Recorder). The selected component recap fixes were identified through a Sandia National Lab analysis of components coupled with the results of a nonrecurring engineering analysis of components. These assessments ensure that the recap resources are focused on the highest payoff components. In summary, the goal of this program is to improve safety, maximize marginal return on recapped components, enhance aircraft performance by increasing unscheduled mean time between removal (MTBR) for selected components, and reduce the average fleet age. Funding in FY10 &11 for NG Support will procure the delta component overhauls to convert AH-64A model Recap kits to AH-64D model Recap kits. Extended year funding provides for continued reliability and safety improvements, gains synergy from future programs and bridges the gap to Block III future requirements. Condition Based Maintenance (CBM) and expansion of the Modernized Signal Processing Unit (MSPU) capabilities will continue to evolve reducing ownership costs and improving the maintenance posture and burden on the warfighter.

DEVELOPMENT STATUS / MAJOR DEVELOPMENT MILESTONE(S):

Jan 07 - FFP Contract Option,
 Jul 07 - FFP Contract restructure to support the 96 additional aircraft
 Dec 07 - CBM contract
 Jul 09 - CBM contract option (OCO)

Installation Schedule

| Pr Yr Totals | FY 2009 | | | | FY 2010 | | | | FY 2011 | | | | FY 2012 | | | | FY 2013 | | | | |
|-----------------|---------|----|----|----|---------|---|---|---|---------|---|---|---|---------|---|---|---|---------|---|---|---|--|
| | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 | |
| Inputs | 611 | 36 | 36 | 37 | 37 | 8 | 8 | 8 | 8 | | | | | | | | | | | | |
| Outputs | 611 | 36 | 36 | 37 | 37 | 8 | 8 | 8 | 8 | | | | | | | | | | | | |

| | FY 2014 | | | | FY 2015 | | | | FY 2016 | | | | FY 2017 | | | | To Complete | Totals |
|---------|---------|---|---|---|---------|---|---|---|---------|---|---|---|---------|---|---|---|----------------|--------|
| | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 | | |
| Inputs | | | | | | | | | | | | | | | | | | 789 |
| Outputs | | | | | | | | | | | | | | | | | | 789 |

METHOD OF IMPLEMENTATION: Contract - CBM **ADMINISTRATIVE LEADTIME:** 3 months **PRODUCTION LEADTIME:** 12 months
Contract Dates: FY 2010 - FY 2011 - FY 2012 - Nov 11
Delivery Dates: FY 2010 - FY 2011 - FY 2012 - Dec 12

INDIVIDUAL MODIFICATION

Date: May 2009

MODIFICATION TITLE (cont): Apache Product Improvements [MOD 9] OSIP

FINANCIAL PLAN: (\$ in Millions)

| | FY 2008 and Prior | | 2009 | | 2010 | | TC | | Total | |
|---------------------------------|----------------------|-------|------|------|------|------|-----|-----|-------|-------|
| | Qty | \$ | Qty | \$ | Qty | \$ | Qty | \$ | Qty | \$ |
| | RDT&E | | | | | | | | | |
| Procurement | | | | | | | | | | |
| CBM Hardware | 296 | 11.1 | 32 | 2.0 | | | | | 328 | 13.1 |
| Other Recap | | 12.9 | | 4.8 | | | | | | 17.7 |
| NG Recap Support | | | | | | 10.2 | | | | 10.2 |
| R&S Equipment (Kits) | 655 | 108.2 | | | | | | | 655 | 108.2 |
| CBM Services | | 35.6 | | 3.9 | | 2.1 | | | | 41.6 |
| Non-recurring engineering | | 11.0 | | | | | | | | 11.0 |
| CBM Kits -- FY09 OCO | | | 132 | 10.8 | | | | | 132 | 10.8 |
| Installation of Hardware | | | | | | | | | | |
| FY 2007 & Prior Equip -- Kits | 411 | 14.8 | 50 | 2.0 | | | | | 461 | 16.8 |
| FY 2008 -- Kits | | | | | | | | | | |
| FY 2009 Equip -- Kits | | | | | | | | | | |
| FY 2010 Equip -- Kits | | | | | | | | | | |
| FY 2011 Equip -- Kits | 100 | 1.8 | | | | | | | 100 | 1.8 |
| FY 2012 Equip -- Kits | 100 | 2.5 | | | | | | | 100 | 2.5 |
| FY 2013 Equip -- Kits | | | | | | | | | | |
| FY 2014 Equip -- Kits | | | | | | | | | | |
| FY 2008 Equip -- 96 CBM Kits | | | 96 | 1.7 | | | | | 96 | 1.7 |
| FY 2010 Equip -- 0 CBM Kits | | | | | | | | | | |
| FY 2009 Equip -- 32 CBM Kits | | | | | 32 | 0.7 | | | 32 | 0.7 |
| FY 2009 OCO Equip -- 132 | | | | | 132 | | | | 132 | |
| CBM Kits | | | | | | | | | | |
| FY 2011 Equip -- 0 CBM | | | | | | | | | | |
| FY 2012 Equip -- 60 CBM | | | | | | | | | | |
| TC Equip -- Kits | | | | | | | | | | |
| Total Installment | 611 | 19.1 | 146 | 3.7 | 164 | 0.7 | 0 | 0.0 | 921 | 23.5 |
| Total Procurement Cost | | 197.9 | | 25.2 | | 13.0 | | 0.0 | | 236.1 |

INDIVIDUAL MODIFICATION

Date: May 2009

MODIFICATION TITLE: Apache Block III [MOD 10] OSIP

MODELS OF SYSTEM AFFECTED: AH-64D Longbow Apache

DESCRIPTION / JUSTIFICATION:

AH-64A to Block III (NRE): The evolutionary system improvement process that has kept the Apache AH-64 attack helicopter a viable combat multiplier for over 20 years has moved from the original AH-64A through two block improvement programs of the AH-64D Longbow (Block I and Block II). The most significant modification and technological change was from the AH-64A to the AH-64D Block I configuration. The original Apache Block III (AB3) program plan called for the remanufacture of AH-64D Block I and Block II aircraft into the AB3 configuration. The revised plan to remanufacture AH-64A aircraft directly into the AB3 configuration will require the appropriate AH-64D Block I or Block II modifications in addition to the mandatory AB3 modifications. Consequently, design work and the associated drawing changes not originally planned or budgeted in the AB3 program must take place.

AH-64A to Block III remanufacture: The AB3 remanufacture program will be required to make 100% of the airframe hardware modifications and technological system upgrades generated by the original AH-64A to AH-64D Longbow Block I or Block II remanufacture programs. This creates a greater requirement for subsystem hardware procurements, installations, and the associated man-hours needed to modify the original AH-64A airframe.

DEVELOPMENT STATUS / MAJOR DEVELOPMENT MILESTONE(S):

Advance Procurement (LRIP) Lot 1 Contract Award Production - Third Quarter FY09

Installation Schedule

| Pr Yr Totals | FY 2009 | | | | FY 2010 | | | | FY 2011 | | | | FY 2012 | | | | FY 2013 | | | |
|-----------------|---------|---|---|---|---------|---|---|---|---------|---|---|---|---------|---|---|---|---------|---|---|---|
| | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 |
| Inputs | | | | | | | | | | | | | | | | | | | | |
| Outputs | | | | | | | | | | | | | | | | | | | | |

| 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 | To Complete | Totals | |
|---------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----------------|--------|---------|
| | | | | | | | | | | | | | | | | | | FY 2014 |
| Inputs | | | | | | | | | | | | | | | | | | |
| Outputs | | | | | | | | | | | | | | | | | | |

METHOD OF IMPLEMENTATION:

ADMINISTRATIVE LEADTIME:

0 months

PRODUCTION LEADTIME: 0 months

Contract Dates:

FY 2010 -

FY 2011 -

FY 2012 -

Delivery Dates:

FY 2010 -

FY 2011 -

FY 2012 -

INDIVIDUAL MODIFICATION

Date: May 2009

MODIFICATION TITLE (cont): Apache Block III [MOD 10] OSIP

FINANCIAL PLAN: (\$ in Millions)

| | FY 2008 and Prior | | 2009 | | 2010 | | TC | | Total | |
|---------------------------------|----------------------|-----|------|------|------|-----|-----|-----|-------|------|
| | Qty | \$ | Qty | \$ | Qty | \$ | Qty | \$ | Qty | \$ |
| | RDT&E | | | | | | | | | |
| Procurement | | | | | | | | | | |
| Long Lead Items | | | | 11.1 | | | | | | 11.1 |
| A to Block III (NRE) | | | | | | | | | | |
| A to Block III | | | | | | | | | | |
| Installation of Hardware | | | | | | | | | | |
| FY 2007 & Prior Equip -- Kits | | | | | | | | | | |
| FY 2008 -- Kits | | | | | | | | | | |
| FY 2009 Equip -- Kits | | | | | | | | | | |
| FY 2010 Equip -- Kits | | | | | | | | | | |
| FY 2011 Equip -- Kits | | | | | | | | | | |
| FY 2012 Equip -- Kits | | | | | | | | | | |
| FY 2013 Equip -- Kits | | | | | | | | | | |
| FY 2014 Equip -- Kits | | | | | | | | | | |
| TC Equip -- Kits | | | | | | | | | | |
| Total Installment | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 |
| Total Procurement Cost | | 0.0 | | 11.1 | | 0.0 | | 0.0 | | 11.1 |

INDIVIDUAL MODIFICATION

Date: May 2009

MODIFICATION TITLE: Internal Auxiliary Fuel System (IAFS) [MOD 11] OSIP

MODELS OF SYSTEM AFFECTED: AH-64 Apache

DESCRIPTION / JUSTIFICATION:

This program meets the requirements established by Task Force Hawk, as approved for incorporation by the VCSA. The IAFS is ballistically tolerant, crashworthy, self sealing and increases aircraft mission endurance by increasing fuel capacity by 100 gallons. During ongoing OIF/OEF missions the AH-64, in the Quick Reaction Force (QRF) and in support of Close Combat operations, is required to remain on station longer to protect ground troops with immediate suppression by the 30mm weapon. The additional capacity provided by IAFS increases mission time by 30-45 minutes and enables the Apache aircraft to remain in fight longer and reduce Forward Area Refuel Point (FARP) iterations. The Combo-pak also has a 246 round 30mm capacity which meets critical operational needs associated with current operations in OIF/OEF as well as future contingencies. IAFS is designated as a threshold Mission Equipment Package (MEP) requirement in support of OEF/OIF. FY09-10 procured B-kits will be installed by operating units.

DEVELOPMENT STATUS / MAJOR DEVELOPMENT MILESTONE(S):

FFP Contract will be used for all IAFS procurements, FY 08 - FY 10

Installation Schedule

| Pr Yr Totals | FY 2009 | | | | FY 2010 | | | | FY 2011 | | | | FY 2012 | | | | FY 2013 | | | |
|-----------------|---------|---|---|---|---------|---|---|---|---------|---|---|---|---------|---|---|---|---------|---|---|---|
| | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 |
| Inputs | 303 | | | | | | | | | | | | | | | | | | | |
| Outputs | 303 | | | | | | | | | | | | | | | | | | | |

| | FY 2014 | | | | FY 2015 | | | | FY 2016 | | | | FY 2017 | | | | To Complete | Totals | | |
|---------|---------|---|---|---|---------|---|---|---|---------|---|---|---|---------|---|---|---|----------------|--------|--|-----|
| | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 | | | | |
| Inputs | | | | | | | | | | | | | | | | | | | | 303 |
| Outputs | | | | | | | | | | | | | | | | | | | | 303 |

METHOD OF IMPLEMENTATION: Contract ADMINISTRATIVE LEADTIME: 1 months PRODUCTION LEADTIME: 9 months

Contract Dates: FY 2010 - Nov 09 FY 2011 - FY 2012 -

Delivery Dates: FY 2010 - Jul 10 FY 2011 - FY 2012 -

INDIVIDUAL MODIFICATION

Date: May 2009

MODIFICATION TITLE (cont): Internal Auxiliary Fuel System (IAFS) [MOD 11] OSIP

FINANCIAL PLAN: (\$ in Millions)

| | FY 2008 and Prior | | 2009 | | 2010 | | TC | | Total | |
|---------------------------------|----------------------|------|------|------|------|------|-----|-----|-------|-------|
| | Qty | \$ | Qty | \$ | Qty | \$ | Qty | \$ | Qty | \$ |
| | RDT&E | | | | | | | | | |
| Procurement | | | | | | | | | | |
| Kit Quantity | | | | | | | | | | |
| A Kits | 93 | 2.0 | | | | | | | 93 | 2.0 |
| B Kits | 253 | 59.4 | 148 | 37.0 | 32 | 8.0 | | | 433 | 104.4 |
| Other Support & Equipment | | 5.8 | | 2.0 | | 2.0 | | | | 9.8 |
| Installation of Hardware | | | | | | | | | | |
| FY 2007 & Prior Equip -- Kits | 303 | 2.0 | | | | | | | 303 | 2.0 |
| FY 2008 -- Kits | | | | | | | | | | |
| FY 2009 Equip -- Kits | | | | | | | | | | |
| FY 2010 Equip -- Kits | | | | | | | | | | |
| FY 2011 Equip -- Kits | | | | | | | | | | |
| FY 2012 Equip -- Kits | | | | | | | | | | |
| FY 2013 Equip -- Kits | | | | | | | | | | |
| FY 2014 Equip -- Kits | | | | | | | | | | |
| TC Equip- Kits | | | | | | | | | | |
| Total Installment | 303 | 2.0 | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 | 303 | 2.0 |
| Total Procurement Cost | | 69.2 | | 39.0 | | 10.0 | | 0.0 | | 118.2 |

INDIVIDUAL MODIFICATION

Date: May 2009

MODIFICATION TITLE: Apache Post Production Organic Support [MOD 12] OSIP

MODELS OF SYSTEM AFFECTED: AH-64 Apache

DESCRIPTION / JUSTIFICATION:
 Funds will be used to establish a pilot program (initially at Corpus Christi Army Depot (CAD)) to support transitioning repair/overhaul of selected AH-64D Longbow unique airframe components, currently supported by the contractor/Original Equipment Manufacturer (OEM), to organic depot facilities (Corpus Christi Army Depot and Tobyhanna Army Depot). The transitioning is occurring in phases from the least to the most complex Transition Package.

DEVELOPMENT STATUS / MAJOR DEVELOPMENT MILESTONE(S):

FY08 funds -- Contract with Boeing, July 08
 FY09 funds -- Contract with Boeing, Jan 09
 FY10 funds -- Contract with Boeing, Jan 10

Installation Schedule

| | Pr Yr Totals | FY 2009 | | | | FY 2010 | | | | FY 2011 | | | | FY 2012 | | | | FY 2013 | | | | |
|---------|-----------------|---------|---|---|---|---------|---|---|---|---------|---|---|---|---------|---|---|---|---------|---|---|---|--|
| | | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 | |
| Inputs | | | | | | | | | | | | | | | | | | | | | | |
| Outputs | | | | | | | | | | | | | | | | | | | | | | |

| | FY 2014 | | | | FY 2015 | | | | FY 2016 | | | | FY 2017 | | | | To Complete | Totals | | | | |
|---------|---------|---|---|---|---------|---|---|---|---------|---|---|---|---------|---|---|---|----------------|--------|--|--|--|--|
| | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 | | | | | | |
| Inputs | | | | | | | | | | | | | | | | | | | | | | |
| Outputs | | | | | | | | | | | | | | | | | | | | | | |

METHOD OF IMPLEMENTATION: Organic ADMINISTRATIVE LEADTIME: 3 months PRODUCTION LEADTIME: 0 months
 Contract Dates: FY 2010 - FY 2011 - FY 2012 -
 Delivery Dates: FY 2010 - FY 2011 - FY 2012 -

INDIVIDUAL MODIFICATION

Date: May 2009

MODIFICATION TITLE (cont): Apache Post Production Organic Support [MOD 12] OSIP

FINANCIAL PLAN: (\$ in Millions)

| | FY 2008 and Prior | | 2009 | | 2010 | | TC | | Total | |
|---------------------------------|----------------------|-----|------|-----|------|-----|-----|-----|-------|------|
| | Qty | \$ | Qty | \$ | Qty | \$ | Qty | \$ | Qty | \$ |
| | Procurement | | | | | | | | | |
| Other - Transition Packages | | 4.5 | | 6.2 | | 9.1 | | | | 19.8 |
| Installation of Hardware | | | | | | | | | | |
| FY 2007 & Prior Equip -- Kits | | | | | | | | | | |
| FY 2008 -- Kits | | | | | | | | | | |
| FY 2009 Equip -- Kits | | | | | | | | | | |
| FY 2010 Equip -- Kits | | | | | | | | | | |
| FY 2011 Equip -- Kits | | | | | | | | | | |
| FY 2012 Equip -- Kits | | | | | | | | | | |
| FY 2013 Equip -- Kits | | | | | | | | | | |
| FY 2014 Equip -- Kits | | | | | | | | | | |
| Other Support | | | | | | | | | | |
| Total Installment | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 |
| Total Procurement Cost | | 4.5 | | 6.2 | | 9.1 | | 0.0 | | 19.8 |

| | | | | | | |
|---|-------------|---------|---|---|-------------|-------------------|
| Exhibit P-40, Budget Item Justification Sheet | | | | | | Date: May 2009 |
| Appropriation / Budget Activity / Serial No: Aircraft Procurement, Army / 2 / Modification of aircraft | | | | P-1 Item Nomenclature CH-47 CARGO HELICOPTER MODS (MYP) (AA0252) | | |
| Program Elements for Code B Items: | | Code: | Other Related Program Elements: RDTE PE 0203744A | | | |
| | Prior Years | FY 2008 | FY 2009 | FY 2010 | To Complete | Total Prog |
| Proc Qty | | | | | | |
| Gross Cost | 8375.8 | 1194.4 | 717.7 | 152.3 | | 10440.2 |
| Less PY Adv Proc | 1043.9 | 36.6 | 38.9 | 49.5 | | 1168.9 |
| Plus CY Adv Proc | 1080.5 | 38.9 | 49.5 | | | 1168.9 |
| Net Proc P1 | 8412.4 | 1196.7 | 728.2 | 102.9 | | 10440.2 |
| Initial Spares | 263.9 | 2.0 | 2.0 | | | 267.9 |
| Total Proc Cost | 8676.2 | 1198.7 | 730.3 | 102.9 | | 10708.1 |
| Flyaway U/C | | | | | | |
| Weapon System Proc U/C | | | | | | |
| Description: | | | | | | |
| The CH-47 Chinook is a twin-turbine, tandem-rotor, heavy lift transport helicopter with a useful load of up to 25,000 pounds. As the Army's only heavy lift helicopter, the mission of the CH-47 is to transport troops (including air assault), supplies, weapons, and other cargo in general support operations. The CH-47 is vital to the Overseas contingency Operations (OCO) and Homeland Security needs of our nation. Secondary missions include medical evacuation, aircraft recovery, parachute drops, disaster relief, and search and rescue. These aircraft are fielded to heavy helicopter companies and Special Operations Aviation. The major modifications are Engine Filtration System, Engine Improvement, Maintenance Training Devices (MTD), Transformation Sets, Kits and Outfits, M240 Window/Door Gun Mount, Adjustable Pitch Change Link, Crashworthy Seats, Combined Transmission Fan Drive Shaft, Electric Pump Utility System Hydraulic Accumulator (EPUSHA), Aft Pylon Work Platform, Swashplate Bearing, Cargo Hook and 1553 Parts, Cargo On/Off Loading System (COOLS), High-Definition Upgrade to Airborne Full Motion Video (FMV), Aircraft Component Parts-marking, and Ballistic Protection Systems (BPS) to equip new Chinook units forming under the Army's Aviation Transformation Plan. | | | | | | |
| Justification: | | | | | | |
| FY 2010 funding procures safety and operation modifications to the CH-47D fleet and trainers to maintain the latest configuration. These changes contribute to the effectiveness of heavy lift capability, maintainability, reliability, and aircraft/crew safety. The major modifications are Engine Filtration System, Engine Improvement, Maintenance Training Devices (MTD), Transformation Sets, Kits and Outfits, M240 Window/Door Gun Mount, Adjustable Pitch Change Link, Crashworthy Seats, Combined Transmission Fan Drive Shaft, Electric Pump Utility System Hydraulic Accumulator (EPUSHA), Aft Pylon Work Platform, Swashplate Bearing, Cargo Hook and 1553 Parts, Cargo On/Off Loading System (COOLS), Aircraft Component Parts-marking, High-Definition Upgrade to Airborne FMV, and Ballistic Protection Systems (BPS) to equip new Chinook units forming under the Army's Aviation Transformation Plan. | | | | | | |

| Exhibit P-40M, Budget Item Justification Sheet | | | | | | Date: | |
|---|----------------|--------------|---|---------|-------|---|----------|
| Appropriation / Budget Activity / Serial No: Aircraft Procurement, Army / 2 / Modification of aircraft | | | P-1 Item Nomenclature CH-47 CARGO HELICOPTER MODS (MYP) (AA0252) | | | | May 2009 |
| Program Elements for Code B Items: | | | | | Code: | Other Related Program Elements: RDTE PE 0203744A | |
| Description | | Fiscal Years | | | | | |
| OSIP No. | Classification | 2008 & PR | FY 2009 | FY 2010 | TC | Total | |
| Engine Filtration System | | | | | | | |
| 1-93-01-0807 | Operational | 43.0 | 0.3 | 0.2 | 0.0 | 43.5 | |
| Engine Improvement | | | | | | | |
| 1-96-01-0828 | Operational | 2554.6 | 30.3 | 18.4 | 10.3 | 2613.6 | |
| CH-47 D to F Conversion | | | | | | | |
| 0-00-00-0000 | Operational | 3534.0 | 621.1 | 0.0 | 0.0 | 4155.1 | |
| Maintenance Training Devices (MTD) | | | | | | | |
| 0-00-00-0000 | | 13.2 | 8.3 | 9.7 | 0.0 | 31.2 | |
| Transformation Sets, Kits and Outfits | | | | | | | |
| 0-00-00-0000 | Safety | 43.2 | 10.3 | 11.8 | 0.0 | 65.3 | |
| M240 Window/Door Gun Mount | | | | | | | |
| 0-00-00-0000 | Operational | 3.4 | 5.8 | 5.1 | 0.0 | 14.3 | |
| Adjustable Pitch Change Link | | | | | | | |
| 0-00-00-0000 | | 0.0 | 0.0 | 3.3 | 15.8 | 19.1 | |
| Crashworthy Seats | | | | | | | |
| 0-00-00-0000 | | 0.0 | 0.0 | 3.2 | 39.3 | 42.5 | |
| AVCATT | | | | | | | |
| 0-00-00-0000 | | 9.7 | 0.2 | 0.0 | 0.0 | 9.9 | |
| CH-47 MISC Mods \$5M or Less | | | | | | | |
| 0-00-00-0000 | Operational | 26.0 | 18.9 | 11.7 | 33.6 | 90.2 | |
| Cargo On/Off Loading System | | | | | | | |
| 0-00-00-0000 | | 0.0 | 24.0 | 9.3 | 138.4 | 171.7 | |
| Aircraft Component Parts-Marking | | | | | | | |
| 0-00-00-0000 | | 10.1 | 7.4 | 3.5 | 0.0 | 21.0 | |
| Ballistic Protection System (BPS) | | | | | | | |
| 0-00-00-0000 | | 4.3 | 1.7 | 4.7 | 16.5 | 27.2 | |
| High-Definition Upgrade to Airborne FMV | | | | | | | |
| 0-00-00-0000 | | 0.0 | 0.0 | 22.0 | 0.0 | 22.0 | |

| | |
|---|-------------------|
| Exhibit P-40M, Budget Item Justification Sheet | Date: May 2009 |
|---|-------------------|

| | |
|---|---|
| Appropriation / Budget Activity / Serial No: Aircraft Procurement, Army / 2 / Modification of aircraft | P-1 Item Nomenclature CH-47 CARGO HELICOPTER MODS (MYP) (AA0252) |
|---|---|

| | | |
|------------------------------------|-------|---|
| Program Elements for Code B Items: | Code: | Other Related Program Elements: RDTE PE 0203744A |
|------------------------------------|-------|---|

| Description | Fiscal Years | | | | | |
|-------------|----------------|-----------|---------|---------|-------|--------|
| OSIP No. | Classification | 2008 & PR | FY 2009 | FY 2010 | TC | Total |
| Totals | | 6241.5 | 728.3 | 102.9 | 253.9 | 7326.6 |

INDIVIDUAL MODIFICATION

Date: May 2009

MODIFICATION TITLE: Engine Improvement [MOD 2] 1-96-01-0828

MODELS OF SYSTEM AFFECTED: CH-47D, CH-47F and MH-47 E/G

DESCRIPTION / JUSTIFICATION:

Type of Improvement: Improved Operational Capability, Improved reliability and lower Operational/Support Costs. T55-GA-714A engine improvements will increase reliability, increase engine time on wing and lower operational and support costs. Upgrades include a new Electronic Control Unit (ECU). The ECU will replace the Digital Electronic Control Unit (DECU) currently used which will improve reliability and add enhanced features. The Improved Torque Meter will address torque errors associated with the current system. Torque accuracy of the current system is +/-5.9%, the new system is designed to meet +/-2.0%. This will lower operational and support costs and increase torque kit reliability. DECU/ECU remote readout. This program will allow engine performance check data to be viewed when access to the DECU/ECU display window is not possible. In addition, this program also upgrades the tools and Ground Support Equipment needed for the T55-GA-714A Engine Upgrade Program. P3 Check Valve improvement: The current P3 check valve can crack causing P3 leaks which can lead to uncommanded fuel flow reduction. The new P3 valve resolves this issue and adds a self draining feature. Installation schedules and methods of implementation are not listed because of numerous mods of varied schedules and delivery dates.

DEVELOPMENT STATUS / MAJOR DEVELOPMENT MILESTONE(S):

ECU: ECP Delivery September 2007; First Kit Delivery May 2009.
 Improved Torque Meter: ECP Delivery 2Q 2009, ECP Approval 3Q 2009, Contract Award for Kits: 1Q 2010, First Kit Delivery 3Q 2010.
 T55 DECU Remote Readout: ECP Delivery 3Q 2009, ECP Approval 4Q 2009, Contract Award for Kits: 1Q 2010, First Kit Delivery 3Q 2010.
 T55 P3 Check Valve: ECP and Kits Production Contract Award 4Q 2008

Installation Schedule

| Pr Yr Totals | FY 2009 | | | | FY 2010 | | | | FY 2011 | | | | FY 2012 | | | | FY 2013 | | | |
|-----------------|---------|---|---|---|---------|---|---|---|---------|---|---|---|---------|---|---|---|---------|---|---|---|
| | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 |
| Inputs | | | | | | | | | | | | | | | | | | | | |
| Outputs | | | | | | | | | | | | | | | | | | | | |

| 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 | To Complete | Totals | |
|---------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----------------|--------|---------|
| | | | | | | | | | | | | | | | | | | FY 2014 |
| Inputs | | | | | | | | | | | | | | | | | | |
| Outputs | | | | | | | | | | | | | | | | | | |

METHOD OF IMPLEMENTATION: Contract ADMINISTRATIVE LEADTIME: 0 months PRODUCTION LEADTIME: 0 months
 Contract Dates: FY 2010 - FY 2011 - FY 2012 -
 Delivery Dates: FY 2010 - FY 2011 - FY 2012 -

INDIVIDUAL MODIFICATION

Date: May 2009

MODIFICATION TITLE (cont): Engine Improvement [MOD 2] 1-96-01-0828

FINANCIAL PLAN: (\$ in Millions)

| | FY 2008 and Prior | | 2009 | | 2010 | | TC | | Total | |
|---------------------------------------|----------------------|--------|------|------|------|------|-----|------|-------|--------|
| | Qty | \$ | Qty | \$ | Qty | \$ | Qty | \$ | Qty | \$ |
| | RDT&E | | | | | | | | | |
| Procurement | | | | | | | | | | |
| New Engines | 1250 | 2495.0 | | | | | | | 1250 | 2495.0 |
| T55 Engine Control Unit Prog (ECU) | 56 | 6.1 | 131 | 7.9 | 240 | 15.5 | | | 427 | 29.5 |
| P3 Check Value | 139 | 2.4 | 234 | 2.5 | | | | | 373 | 4.9 |
| Digital ECU Remote Readout | | | 68 | 9.4 | 33 | 2.0 | | | 101 | 11.4 |
| Improved Torque Meter | | | 260 | 9.1 | | | 426 | 10.3 | 686 | 19.4 |
| Logistics | | 50.6 | | | | | | | | 50.6 |
| PM Admin Support | | 0.5 | | 1.4 | | 0.9 | | | | 2.8 |
| -- | | | | | | | | | | |
| Installation of Hardware | | | | | | | | | | |
| FY 2007 & Prior Equip -- Kits | | | | | | | | | | |
| FY 2008 -- Kits | | | | | | | | | | |
| FY 2009 Equip -- Kits | | | | | | | | | | |
| FY 2010 Equip -- Kits | | | | | | | | | | |
| FY 2011 Equip -- Kits | | | | | | | | | | |
| FY 2012 Equip -- Kits | | | | | | | | | | |
| FY 2013 Equip -- Kits | | | | | | | | | | |
| FY 2014 Equip -- Kits | | | | | | | | | | |
| TC Equip- Kits | | | | | | | | | | |
| Total Installment | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 |
| Total Procurement Cost | | 2554.6 | | 30.3 | | 18.4 | | 10.3 | | 2613.6 |

INDIVIDUAL MODIFICATION

Date: May 2009

MODIFICATION TITLE: CH-47 D to F Conversion [MOD 3] 0-00-00-0000

MODELS OF SYSTEM AFFECTED: CH-47D/F

DESCRIPTION / JUSTIFICATION:
 The CH-47 Chinook is a twin-turbine, tandem-rotor, heavy-lift transport helicopter with a useful load of up to 25,000 pounds. The CH-47F Improved Cargo Helicopters mission is to transport troops (including air assault), supplies, weapons, and other cargo in general support operations and is an essential component of the Army Future Force and is vital to the Overseas Contingency Operations and the Homeland Security needs of our nation. This budget line for the CH-47F program procures 465 aircraft out of the Armys Aviation Transformation Chinook total requirement of 513 aircraft. Three MH-47G aircraft were procured previously with unique Special Operations/Congressional funding outside of this budget line item. The total aircraft requirement consists of 61 special operations MH-47Gs (which includes the three unique Special Operations/Congressionally funded helicopters mentioned above) and 262 remanufactured CH-47Fs. The CH-47F program installs a new digital cockpit, incorporates all new airframe components, and modifies the aircraft to reduce vibration. The CH-47F Common Avionics Architecture System (CAAS) digital cockpit will provide future growth potential to meet the Net-Ready Key Performance requirements and include a digital data bus that permits installation of enhanced communications and navigation equipment for improved situational awareness, mission performance, and survivability. New airframe structural components and modifications will reduce harmful vibrations, improving operation and support (O&S) efficiency and crew endurance. Other airframe modifications reduce by 60 percent the time required for aircraft tear down and build-up after C-5/C-17 deployment. These modifications significantly enhance the Chinook's strategic deployment capability. All CH-47F funding starting in FY10 was moved to CH-47 SLEP (A05105) and CH-47 New Build (A05008).

DEVELOPMENT STATUS / MAJOR DEVELOPMENT MILESTONE(S):
 MS III Production Decision - Nov 04
 FRP Contract Award - Dec 04

Installation Schedule

| | Pr Yr Totals | FY 2009 | | | | FY 2010 | | | | FY 2011 | | | | FY 2012 | | | | FY 2013 | | | | |
|---------|-----------------|---------|---|---|---|---------|---|---|---|---------|---|---|---|---------|---|---|---|---------|---|---|---|--|
| | | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 | |
| Inputs | | | | | | | | | | | | | | | | | | | | | | |
| Outputs | | | | | | | | | | | | | | | | | | | | | | |

| | FY 2014 | | | | FY 2015 | | | | FY 2016 | | | | FY 2017 | | | | To Complete | Totals | | | | |
|---------|---------|---|---|---|---------|---|---|---|---------|---|---|---|---------|---|---|---|----------------|--------|--|--|--|--|
| | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 | | | | | | |
| Inputs | | | | | | | | | | | | | | | | | | | | | | |
| Outputs | | | | | | | | | | | | | | | | | | | | | | |

METHOD OF IMPLEMENTATION: Contract **ADMINISTRATIVE LEADTIME:** 0 months **PRODUCTION LEADTIME:** 0 months

Contract Dates: FY 2010 - **FY 2011 -** **FY 2012 -**

Delivery Dates: FY 2010 - **FY 2011 -** **FY 2012 -**

INDIVIDUAL MODIFICATION

Date: May 2009

MODIFICATION TITLE (cont): CH-47 D to F Conversion [MOD 3] 0-00-00-0000

FINANCIAL PLAN: (\$ in Millions)

| | FY 2008 and Prior | | 2009 | | 2010 | | TC | | Total | |
|---------------------------------|----------------------|--------|------|-------|------|-----|-----|-----|-------|--------|
| | Qty | \$ | Qty | \$ | Qty | \$ | Qty | \$ | Qty | \$ |
| | RDT&E | | | | | | | | | |
| Procurement | | | | | | | | | | |
| Recurring Production (Suppl) | 28 | 845.6 | | | | | | | 28 | 845.6 |
| Recurring Production (Mods) | 125 | 1674.3 | 23 | 545.6 | | | | | 148 | 2219.9 |
| Recurring Production (New | 6 | 177.5 | | | | | | | 6 | 177.5 |
| Build) | | | | | | | | | | |
| Recurring (New Build NG) | 4 | 120.0 | | | | | | | 4 | 120.0 |
| Omnibus | 1 | 30.0 | | | | | | | 1 | 30.0 |
| Other Flyaway | | 351.0 | | 41.5 | | | | | | 392.5 |
| Other Support | | 189.0 | | 10.2 | | | | | | 199.2 |
| Training | | 128.1 | | 21.0 | | | | | | 149.1 |
| Support Equipment | | 18.5 | | 2.8 | | | | | | 21.3 |
| -- | | | | | | | | | | |
| -- | | | | | | | | | | |
| Installation of Hardware | | | | | | | | | | |
| FY 2007 & Prior Equip -- Kits | | | | | | | | | | |
| FY 2008 -- Kits | | | | | | | | | | |
| FY 2009 Equip -- Kits | | | | | | | | | | |
| FY 2010 Equip -- Kits | | | | | | | | | | |
| FY 2011 Equip -- Kits | | | | | | | | | | |
| FY 2012 Equip -- Kits | | | | | | | | | | |
| FY 2013 Equip -- Kits | | | | | | | | | | |
| FY 2014 Equip -- Kits | | | | | | | | | | |
| TC Equip- Kits | | | | | | | | | | |
| Total Installment | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 |
| Total Procurement Cost | | 3534.0 | | 621.1 | | 0.0 | | 0.0 | | 4155.1 |

INDIVIDUAL MODIFICATION

Date: May 2009

MODIFICATION TITLE: Maintenance Training Devices (MTD) [MOD 4] 0-00-00-0000

MODELS OF SYSTEM AFFECTED:

DESCRIPTION / JUSTIFICATION:

The Maintenance Training Devices (MTD) to be upgraded include the Electrical Trainer, Hardware Maintenance Trainer, Automatic Flight Control System Classroom Trainer, Single Point Pressure Refueling Systems Trainer, Composite Maintenance Trainer, Landing Gear, Cargo Hook, Hydraulics Maintenance Trainers, and Flight Controls Trainers. Since almost all dynamic components will remain the same between the D and F models, many of these trainers will be required for CH-47F as it transitions.

DEVELOPMENT STATUS / MAJOR DEVELOPMENT MILESTONE(S):

Installation Schedule

| Pr Yr | FY 2009 | | | | FY 2010 | | | | FY 2011 | | | | FY 2012 | | | | FY 2013 | | | |
|---------|---------|---|---|---|---------|---|---|---|---------|---|---|---|---------|---|---|---|---------|---|---|---|
| | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 |
| Totals | | | | | | | | | | | | | | | | | | | | |
| Inputs | | | | | | | | | | | | | | | | | | | | |
| Outputs | | | | | | | | | | | | | | | | | | | | |

| FY 2014 | FY 2015 | | | | FY 2016 | | | | FY 2017 | | | | To Complete | Totals | | | | |
|---------|---------|---|---|---|---------|---|---|---|---------|---|---|---|-------------|--------|--|--|--|--|
| | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 | | | | | | |
| Inputs | | | | | | | | | | | | | | | | | | |
| Outputs | | | | | | | | | | | | | | | | | | |

METHOD OF IMPLEMENTATION: Contract ADMINISTRATIVE LEADTIME: 3 months PRODUCTION LEADTIME: 12 months
 Contract Dates: FY 2010 - Jan 10 FY 2011 - Dec 11 FY 2012 - Jan 12
 Delivery Dates: FY 2010 - Jan 11 FY 2011 - Jan 12 FY 2012 - Jan 13

INDIVIDUAL MODIFICATION

Date: May 2009

MODIFICATION TITLE (cont): Maintenance Training Devices (MTD) [MOD 4] 0-00-00-0000

FINANCIAL PLAN: (\$ in Millions)

| | FY 2008 and Prior | | 2009 | | 2010 | | TC | | Total | |
|---------------------------------|----------------------|------|------|-----|------|-----|-----|-----|-------|------|
| | Qty | \$ | Qty | \$ | Qty | \$ | Qty | \$ | Qty | \$ |
| | RDT&E | | | | | | | | | |
| Procurement | | | | | | | | | | |
| MTD Upgrades | 2 | 5.4 | 4 | 7.2 | 5 | 8.2 | | | 11 | 20.8 |
| Engineering Support | | 7.4 | | 0.9 | | 1.2 | | | | 9.5 |
| Logistics | | 0.4 | | 0.2 | | 0.3 | | | | 0.9 |
| | | | | | | | | | | |
| Other | | | | | | | | | | |
| Interim Contractor Support | | | | | | | | | | |
| Installation of Hardware | | | | | | | | | | |
| FY 2007 & Prior Equip -- Kits | | | | | | | | | | |
| FY 2008 -- Kits | | | | | | | | | | |
| FY 2009 Equip -- Kits | | | | | | | | | | |
| FY 2010 Equip -- Kits | | | | | | | | | | |
| FY 2011 Equip -- Kits | | | | | | | | | | |
| FY 2012 Equip -- Kits | | | | | | | | | | |
| FY 2013 Equip -- Kits | | | | | | | | | | |
| FY 2014 Equip -- Kits | | | | | | | | | | |
| TC Equip- Kits | | | | | | | | | | |
| Total Installment | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 |
| Total Procurement Cost | | 13.2 | | 8.3 | | 9.7 | | 0.0 | | 31.2 |

INDIVIDUAL MODIFICATION

Date: May 2009

MODIFICATION TITLE: Transformation Sets, Kits and Outfits [MOD 5] 0-00-00-0000

MODELS OF SYSTEM AFFECTED: CH-47D/F CHINOOK

DESCRIPTION / JUSTIFICATION:
 Type of Improvements - Improved Operational and Safety Capability. Sets, Kits and Outfits. This funding procures initial start-up tooling and equipment to facilitate unit reorganizations as part of the Army Aviation Transformation. Procurement of these kits are through requisition in the supply system.

DEVELOPMENT STATUS / MAJOR DEVELOPMENT MILESTONE(S):

Installation Schedule

| Pr Yr | FY 2009 | | | | FY 2010 | | | | FY 2011 | | | | FY 2012 | | | | FY 2013 | | | |
|---------|---------|---|---|---|---------|---|---|---|---------|---|---|---|---------|---|---|---|---------|---|---|---|
| | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 |
| Totals | | | | | | | | | | | | | | | | | | | | |
| Inputs | | | | | | | | | | | | | | | | | | | | |
| Outputs | | | | | | | | | | | | | | | | | | | | |

| Pr Yr | FY 2014 | | | | FY 2015 | | | | FY 2016 | | | | FY 2017 | | | | To Complete | Totals |
|---------|---------|---|---|---|---------|---|---|---|---------|---|---|---|---------|---|---|---|-------------|--------|
| | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 | | |
| Inputs | | | | | | | | | | | | | | | | | | |
| Outputs | | | | | | | | | | | | | | | | | | |

METHOD OF IMPLEMENTATION:

ADMINISTRATIVE LEADTIME:

0 months

PRODUCTION LEADTIME: 0 months

Contract Dates: FY 2010 -

FY 2011 -

FY 2012 -

Delivery Dates: FY 2010 -

FY 2011 -

FY 2012 -

INDIVIDUAL MODIFICATION

Date: May 2009

MODIFICATION TITLE (cont): Transformation Sets, Kits and Outfits [MOD 5] 0-00-00-0000

FINANCIAL PLAN: (\$ in Millions)

| | FY 2008 and Prior | | 2009 | | 2010 | | TC | | Total | |
|---------------------------------|----------------------|------|------|------|------|------|-----|-----|-------|------|
| | Qty | \$ | Qty | \$ | Qty | \$ | Qty | \$ | Qty | \$ |
| | RDT&E | | | | | | | | | |
| Procurement | | | | | | | | | | |
| SKOs | 17 | 42.8 | 4 | 10.0 | 4 | 11.8 | | | 25 | 64.6 |
| PM Support | | 0.4 | | 0.3 | | | | | | 0.7 |
| Installation of Hardware | | | | | | | | | | |
| FY 2007 & Prior Equip -- Kits | | | | | | | | | | |
| FY 2008 -- Kits | | | | | | | | | | |
| FY 2009 Equip -- Kits | | | | | | | | | | |
| FY 2010 Equip -- Kits | | | | | | | | | | |
| FY 2011 Equip -- Kits | | | | | | | | | | |
| FY 2012 Equip -- Kits | | | | | | | | | | |
| FY 2013 Equip -- Kits | | | | | | | | | | |
| FY 2014 Equip -- Kits | | | | | | | | | | |
| TC Equip- Kits | | | | | | | | | | |
| Total Installment | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 |
| Total Procurement Cost | | 43.2 | | 10.3 | | 11.8 | | 0.0 | | 65.3 |

INDIVIDUAL MODIFICATION

Date: May 2009

MODIFICATION TITLE: M240 Window/Door Gun Mount [MOD 6] 0-00-00-0000

MODELS OF SYSTEM AFFECTED: CH-47D and F

DESCRIPTION / JUSTIFICATION:

Type of Improvement. The M240 Window/Door Mount will replace the legacy gun mount to improve operational capability. The current M240H machine gun is adapted to the legacy M24 mount by means of a mount and pintle assembly with a 200 round capacity ammunition can and a collection system. The M240H machine gun Operational Requirement Document (ORD) requires the system to be stowable and increase the number of rounds available for firing without the need to change ammunition cans. The current M24 gun mount will not support a 400 ammunition can nor provide the needed egressibility/stowability requirement without modification. These are user installed.

DEVELOPMENT STATUS / MAJOR DEVELOPMENT MILESTONE(S):

Contract Award - Sep 09
 First Production Hardware Delivery - Mar 10

Installation Schedule

| Pr Yr | FY 2009 | | | | FY 2010 | | | | FY 2011 | | | | FY 2012 | | | | FY 2013 | | | |
|---------|---------|---|---|---|---------|---|---|---|---------|---|---|---|---------|---|---|---|---------|---|---|---|
| | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 |
| Totals | | | | | | | | | | | | | | | | | | | | |
| Inputs | | | | | | | | | | | | | | | | | | | | |
| Outputs | | | | | | | | | | | | | | | | | | | | |

| FY 2014 | FY 2015 | | | | FY 2016 | | | | FY 2017 | | | | To Complete | Totals |
|---------|---------|---|---|---|---------|---|---|---|---------|---|---|---|-------------|--------|
| | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 | | |
| Inputs | | | | | | | | | | | | | | |
| Outputs | | | | | | | | | | | | | | |

METHOD OF IMPLEMENTATION: Contract ADMINISTRATIVE LEADTIME: 11 months PRODUCTION LEADTIME: 18 months

Contract Dates: FY 2010 - Oct 09 FY 2011 - Oct 10 FY 2012 -

Delivery Dates: FY 2010 - Mar 11 FY 2011 - Mar 12 FY 2012 -

INDIVIDUAL MODIFICATION

Date: May 2009

MODIFICATION TITLE (cont): M240 Window/Door Gun Mount [MOD 6] 0-00-00-0000

FINANCIAL PLAN: (\$ in Millions)

| | FY 2008 and Prior | | 2009 | | 2010 | | TC | | Total | |
|---------------------------------|----------------------|-----|------|-----|------|-----|-----|-----|-------|------|
| | Qty | \$ | Qty | \$ | Qty | \$ | Qty | \$ | Qty | \$ |
| | RDT&E | | | | | | | | | |
| Procurement | | | | | | | | | | |
| Door Gunner Mount B Kits | 70 | 3.4 | 80 | 5.8 | 390 | 4.9 | | | 540 | 14.1 |
| PM Support | | | | | | 0.2 | | | | 0.2 |
| Installation of Hardware | | | | | | | | | | |
| FY 2007 & Prior Equip -- Kits | | | | | | | | | | |
| FY 2008 -- Kits | | | | | | | | | | |
| FY 2009 Equip -- Kits | | | | | | | | | | |
| FY 2010 Equip -- Kits | | | | | | | | | | |
| FY 2011 Equip -- Kits | | | | | | | | | | |
| FY 2012 Equip -- Kits | | | | | | | | | | |
| FY 2013 Equip -- Kits | | | | | | | | | | |
| FY 2014 Equip -- Kits | | | | | | | | | | |
| TC Equip- Kits | | | | | | | | | | |
| Total Installment | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 | | 0.0 | 0 | 0.0 |
| Total Procurement Cost | | 3.4 | | 5.8 | | 5.1 | | 0.0 | | 14.3 |

INDIVIDUAL MODIFICATION

Date: May 2009

MODIFICATION TITLE: Cargo On/Off Loading System [MOD 11] 0-00-00-0000

MODELS OF SYSTEM AFFECTED: CH-47D, F & G

DESCRIPTION / JUSTIFICATION:

The Cargo On/Off Loading System will replace the current system which is cumbersome and not flexible enough to meet mission diversity currently faced in OEF and OIF. The system would be integrated into the aircraft. This would allow for units to perform cargo missions and pax missions without stopping to reconfigure the helicopter. The current system is a bolt on system that is maintenance intensive to install and remove. The cargo handling floor would allow a cargo handling system to be installed on the aircraft all the time allowing for in-flight mission changes as needed and reducing mission prep time while eliminating man-hours needed to install.

DEVELOPMENT STATUS / MAJOR DEVELOPMENT MILESTONE(S):

NRE Contract Award Sep 08
Production Contract Award Jun 09

Installation Schedule

| Pr Yr | FY 2009 | | | | FY 2010 | | | | FY 2011 | | | | FY 2012 | | | | FY 2013 | | | |
|----------------|---------|---|---|---|---------|----|----|----|---------|---|---|---|---------|---|---|---|---------|---|---|---|
| | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 |
| Totals | | | | | | 15 | 15 | 15 | 5 | 5 | 5 | 5 | 2 | 3 | 3 | 3 | 7 | 7 | 8 | 8 |
| Inputs | | | | | | | | | | | | | | | | | | | | |
| Outputs | | | | | | | 15 | 15 | 15 | 5 | 5 | 5 | 5 | 2 | 3 | 3 | 3 | 7 | 7 | 8 |

| FY 2014 | | | | FY 2015 | | | | FY 2016 | | | | FY 2017 | | | | To Complete | Totals |
|---------|---|---|---|---------|----|----|----|---------|----|----|----|---------|----|----|----|-------------|--------|
| 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 | | |
| 7 | 7 | 7 | 8 | 10 | 10 | 10 | 11 | 15 | 15 | 15 | 15 | 15 | 15 | 15 | 15 | 200 | 496 |
| 8 | 7 | 7 | 7 | 8 | 10 | 10 | 10 | 11 | 15 | 15 | 15 | 15 | 15 | 15 | 15 | 215 | 496 |

METHOD OF IMPLEMENTATION: Contract ADMINISTRATIVE LEADTIME: 5 months PRODUCTION LEADTIME: 6 months

Contract Dates: FY 2010 - Mar 10 FY 2011 - Mar 11 FY 2012 -

Delivery Dates: FY 2010 - Sep 10 FY 2011 - Sep 11 FY 2012 -

INDIVIDUAL MODIFICATION

Date: May 2009

MODIFICATION TITLE (cont): Cargo On/Off Loading System [MOD 11] 0-00-00-0000

FINANCIAL PLAN: (\$ in Millions)

| | FY 2008 and Prior | | 2009 | | 2010 | | TC | | Total | |
|---------------------------------|----------------------|-----|------|------|------|-----|-----|-------|-------|-------|
| | Qty | \$ | Qty | \$ | Qty | \$ | Qty | \$ | Qty | \$ |
| | RDT&E | | | | | | | | | |
| Procurement | | | | | | | | | | |
| Cargo Handling Floor System | | | 106 | 24.0 | 20 | 5.7 | 260 | 117.3 | 386 | 147.0 |
| PM Support | | | | | | 0.4 | | | | 0.4 |
| Installation of Hardware | | | | | | | | | | |
| FY 2007 & Prior Equip -- Kits | | | | | | | | | | |
| FY 2008 -- Kits | | | | | | | | | | |
| FY 2009 Equip -- Kits | | | | | 45 | 3.2 | | | 45 | 3.2 |
| FY 2010 Equip -- Kits | | | | | | | | | | |
| FY 2011 Equip -- Kits | | | | | | | | | | |
| FY 2012 Equip -- Kits | | | | | | | | | | |
| FY 2013 Equip -- Kits | | | | | | | | | | |
| FY 2014 Equip -- Kits | | | | | | | | | | |
| TC Equip- Kits | | | | | | | 320 | 21.1 | 320 | 21.1 |
| Total Installment | 0 | 0.0 | 0 | 0.0 | 45 | 3.2 | 320 | 21.1 | 365 | 24.3 |
| Total Procurement Cost | | 0.0 | | 24.0 | | 9.3 | | 138.4 | | 171.7 |

INDIVIDUAL MODIFICATION

Date: May 2009

MODIFICATION TITLE: Aircraft Component Parts-Marking [MOD 12] 0-00-00-0000

MODELS OF SYSTEM AFFECTED: CH-47D Chinook, MH-47E, CH-47F

DESCRIPTION / JUSTIFICATION:
 The CH-47 Cargo program will adopt an automatic information system (AIS). This will include automatic identification technology (AIT) which will provide error free documentation of aircraft and components across the fleet. This project will locate mobile partsmarking facilities to allow the Cargo Helicopter PMO to effectively manage the CH-47 fleet.

DEVELOPMENT STATUS / MAJOR DEVELOPMENT MILESTONE(S):

Installation Schedule

| Pr Yr | FY 2009 | | | | FY 2010 | | | | FY 2011 | | | | FY 2012 | | | | FY 2013 | | | |
|---------|---------|---|---|---|---------|---|---|---|---------|---|---|---|---------|---|---|---|---------|---|---|---|
| | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 |
| Totals | | | | | | | | | | | | | | | | | | | | |
| Inputs | | | | | | | | | | | | | | | | | | | | |
| Outputs | | | | | | | | | | | | | | | | | | | | |

| Pr Yr | FY 2014 | | | | FY 2015 | | | | FY 2016 | | | | FY 2017 | | | | To Complete | Totals |
|---------|---------|---|---|---|---------|---|---|---|---------|---|---|---|---------|---|---|---|-------------|--------|
| | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 | | |
| Inputs | | | | | | | | | | | | | | | | | | |
| Outputs | | | | | | | | | | | | | | | | | | |

METHOD OF IMPLEMENTATION:

ADMINISTRATIVE LEADTIME:

0 months

PRODUCTION LEADTIME: 0 months

Contract Dates:

FY 2010 -

FY 2011 -

FY 2012 -

Delivery Dates:

FY 2010 -

FY 2011 -

FY 2012 -

INDIVIDUAL MODIFICATION

Date: May 2009

MODIFICATION TITLE (cont): Aircraft Component Parts-Marking [MOD 12] 0-00-00-0000

FINANCIAL PLAN: (\$ in Millions)

| | FY 2008 and Prior | | 2009 | | 2010 | | TC | | Total | |
|---------------------------------|----------------------|------|------|-----|------|-----|-----|-----|-------|------|
| | Qty | \$ | Qty | \$ | Qty | \$ | Qty | \$ | Qty | \$ |
| | RDT&E | | | | | | | | | |
| Procurement | | | | | | | | | | |
| Component Markings | | 10.1 | | 7.4 | | 3.5 | | | | 21.0 |
| Installation of Hardware | | | | | | | | | | |
| FY 2007 & Prior Equip -- Kits | | | | | | | | | | |
| FY 2008 -- Kits | | | | | | | | | | |
| FY 2009 Equip -- Kits | | | | | | | | | | |
| FY 2010 Equip -- Kits | | | | | | | | | | |
| FY 2011 Equip -- Kits | | | | | | | | | | |
| FY 2012 Equip -- Kits | | | | | | | | | | |
| FY 2013 Equip -- Kits | | | | | | | | | | |
| FY 2014 Equip -- Kits | | | | | | | | | | |
| TC Equip- Kits | | | | | | | | | | |
| Total Installment | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 |
| Total Procurement Cost | | 10.1 | | 7.4 | | 3.5 | | 0.0 | | 21.0 |

INDIVIDUAL MODIFICATION

Date: May 2009

MODIFICATION TITLE: High-Definition Upgrade to Airborne FMV [MOD 14] 0-00-00-0000

MODELS OF SYSTEM AFFECTED: CH-47D & CH-47F

DESCRIPTION / JUSTIFICATION:

Full-Motion Video (FMV) contributes to the development of situational awareness either locally or at some distant node. FMV provides the situational awareness that enables the human perception of the elements of the operational environment in the context of forces, space and time, the comprehension of their meaning, and the projection of their status in the near future. Motion Imagery is a likeness or representation of any natural or man-made feature or related object or activity utilizing sequential or continuous streams of images that enable observation of the dynamic behavior of objects within the scene. Delivery schedule varies.

DEVELOPMENT STATUS / MAJOR DEVELOPMENT MILESTONE(S):

Installation Schedule

| Pr Yr | FY 2009 | | | | FY 2010 | | | | FY 2011 | | | | FY 2012 | | | | FY 2013 | | | |
|---------|---------|---|---|---|---------|---|---|---|---------|---|---|---|---------|---|---|---|---------|---|---|---|
| | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 |
| Totals | | | | | | | | | | | | | | | | | | | | |
| Inputs | | | | | | | | | | | | | | | | | | | | |
| Outputs | | | | | | | | | | | | | | | | | | | | |

| Pr Yr | FY 2014 | | | | FY 2015 | | | | FY 2016 | | | | FY 2017 | | | | To Complete | Totals |
|---------|---------|---|---|---|---------|---|---|---|---------|---|---|---|---------|---|---|---|-------------|--------|
| | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 | | |
| Inputs | | | | | | | | | | | | | | | | | | |
| Outputs | | | | | | | | | | | | | | | | | | |

METHOD OF IMPLEMENTATION:

ADMINISTRATIVE LEADTIME:

0 months

PRODUCTION LEADTIME:

0 months

Contract Dates: FY 2010 -

FY 2011 -

FY 2012 -

Delivery Dates: FY 2010 -

FY 2011 -

FY 2012 -

INDIVIDUAL MODIFICATION

Date: May 2009

MODIFICATION TITLE (cont): High-Definition Upgrade to Airborne FMV [MOD 14] 0-00-00-0000

FINANCIAL PLAN: (\$ in Millions)

| | FY 2008 and Prior | | 2009 | | 2010 | | TC | | Total | |
|---------------------------------|----------------------|-----|------|-----|------|------|-----|-----|-------|------|
| | Qty | \$ | Qty | \$ | Qty | \$ | Qty | \$ | Qty | \$ |
| | RDT&E | | | | | | | | | |
| Procurement | | | | | | | | | | |
| Airborne FMV | | | | | 44 | 20.4 | | | 44 | 20.4 |
| Logistics | | | | | | 0.7 | | | | 0.7 |
| PM Admin Support | | | | | | 0.9 | | | | 0.9 |
| Installation of Hardware | | | | | | | | | | |
| FY 2008 & Prior Equip -- Kits | | | | | | | | | | |
| FY 2009 -- Kits | | | | | | | | | | |
| FY 2010 Equip -- Kits | | | | | | | | | | |
| FY 2011 Equip -- Kits | | | | | | | | | | |
| FY 2012 Equip -- Kits | | | | | | | | | | |
| FY 2013 Equip -- Kits | | | | | | | | | | |
| FY 2014 Equip -- Kits | | | | | | | | | | |
| FY 2015 Equip -- Kits | | | | | | | | | | |
| TC Equip- Kits | | | | | | | | | | |
| Total Installment | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 |
| Total Procurement Cost | | 0.0 | | 0.0 | | 22.0 | | 0.0 | | 22.0 |

| | | | | | | |
|--|-------------|---------|---------------------------------|---|-------------|----------------|
| Exhibit P-40, Budget Item Justification Sheet | | | | | | Date: May 2009 |
| Appropriation / Budget Activity / Serial No: Aircraft Procurement, Army / 2 / Modification of aircraft | | | | P-1 Item Nomenclature UTILITY/CARGO AIRPLANE MODS (AA0270) | | |
| Program Elements for Code B Items: | | Code: | Other Related Program Elements: | | | |
| | Prior Years | FY 2008 | FY 2009 | FY 2010 | To Complete | Total Prog |
| Proc Qty | | | | | | |
| Gross Cost | 125.2 | 20.2 | 16.5 | 39.5 | | 201.3 |
| Less PY Adv Proc | | | | | | |
| Plus CY Adv Proc | | | | | | |
| Net Proc P1 | 125.2 | 20.2 | 16.5 | 39.5 | | 201.3 |
| Initial Spares | | | | | | |
| Total Proc Cost | 125.2 | 20.2 | 16.5 | 39.5 | | 201.3 |
| Flyaway U/C | | | | | | |
| Weapon System Proc U/C | | | | | | |
| Description: The budget line updates and modernizes Army fixed wing aircraft such as C-31A, UV-18, C-12, RC-12, UC-35, C-23, C-26, and EO-5 aircraft communication, navigation, surveillance, engines and Department of Defense (DoD) mandated safety equipment to current and evolving international standards. In addition, it provides for the procurement of commercial, military, and test equipment and other support equipment. These modifications ensure continued worldwide deployment capability and safe operations. | | | | | | |
| Justification: FY 10 Base Funding in the amount of \$39.547 million will procure communications, navigation, and surveillance equipment that supports current and future air traffic management requirements. In addition, equipment included in the modifications will enhance the safety of passengers and crew. The upgrade will also permit the Army fixed wing aircraft to operate in compliance with other existing and emerging regulations. As requirements for new avionics equipment continue, aircraft delays and airspace exclusion are likely for aircraft not properly equipped. Upgrade of communication and navigation systems will enhance reliability and maintainability thereby improving aircraft availability for mission requirements. The associated aircraft modifications will assure worldwide deployability. | | | | | | |

| | | | | | | |
|---|----------------|--------------|---|---------|---------------------------------|-------------------|
| Exhibit P-40M, Budget Item Justification Sheet | | | | | | Date: May 2009 |
| Appropriation / Budget Activity / Serial No: Aircraft Procurement, Army / 2 / Modification of aircraft | | | P-1 Item Nomenclature UTILITY/CARGO AIRPLANE MODS (AA0270) | | | |
| Program Elements for Code B Items: | | | | Code: | Other Related Program Elements: | |
| Description | | Fiscal Years | | | | |
| OSIP No. | Classification | 2008 & PR | FY 2009 | FY 2010 | TC | Total |
| Avionics System Cockpit Upgrade | | | | | | |
| 1-96-01-0612 | UNCLASSIFIED | 145.3 | 16.5 | 39.5 | 0.0 | 201.3 |
| Totals | | 145.3 | 16.5 | 39.5 | 0.0 | 201.3 |

INDIVIDUAL MODIFICATION

Date: May 2009

MODIFICATION TITLE: Avionics System Cockpit Upgrade [MOD 1] 1-96-01-0612

MODELS OF SYSTEM AFFECTED: All series Army fixed wing aircraft:C-31, 12, 23, 26, 37, 20, 208, UV-18, RC-12, UC-35, EO-5,CE-182

DESCRIPTION / JUSTIFICATION:

This effort will modernize Fixed Wing aircraft communications, navigation, surveillance (CNS), safety equipment, and engines to current and future international requirements, enhance fleet standardization, allow worldwide deployments and continued safe operations in the 21st Century. As currently equipped, the aircraft will not be suitable for worldwide deployment nor capable of using modern navigation and air traffic control facilities. The following equipment is included in this upgrade: Flight Management System, Displays, Terrain Awareness Warning System, 8.33kHz radios, APX 119, Mode S/5 upgrade, Satellite Communications (SATCOM), Traffic Alert Collision Avoidance System II, Flight Data Recorder, Cockpit Voice Recorder, Aux Fuel System, High Frequency Radios, Weather Radars, Data Link Capability, Communications Management Unit, and other commercial and military CNS equipment. The preceding components reflect critically needed items. However, air traffic management and DOD navigation warfare requirements are evolving and will require additional systems in the near future. The kit quantities reflected on the next page represent a wide variety of avionics kits with different mixes each fiscal year. Additionally, kit configurations vary based on the aircraft that they will be installed on. Consequently, kit and installation unit cost will vary significantly from year to year.

DEVELOPMENT STATUS / MAJOR DEVELOPMENT MILESTONE(S):

Development is not required for Avionics System Cockpit Upgrade.

Installation Schedule

| | Pr Yr Totals | FY 2009 | | | | FY 2010 | | | | FY 2011 | | | | FY 2012 | | | | FY 2013 | | | |
|---------|-----------------|---------|---|---|---|---------|---|---|---|---------|---|---|---|---------|---|---|---|---------|---|---|---|
| | | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 |
| Inputs | 133 | | 2 | 2 | | 2 | 4 | 5 | 5 | | | | | | | | | | | | |
| Outputs | 129 | 4 | | 2 | 2 | | 2 | 3 | 5 | 6 | | | | | | | | | | | |

| | FY 2014 | | | | FY 2015 | | | | FY 2016 | | | | FY 2017 | | | | To Complete | Totals |
|---------|---------|---|---|---|---------|---|---|---|---------|---|---|---|---------|---|---|---|----------------|--------|
| | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 | | |
| Inputs | | | | | | | | | | | | | | | | | | 153 |
| Outputs | | | | | | | | | | | | | | | | | | 153 |

METHOD OF IMPLEMENTATION: Contract **ADMINISTRATIVE LEADTIME:** 2 months **PRODUCTION LEADTIME:** 6 months
Contract Dates: FY 2010 - Dec 09 FY 2011 - FY 2012 -
Delivery Dates: FY 2010 - May 10 FY 2011 - FY 2012 -

INDIVIDUAL MODIFICATION

Date: May 2009

MODIFICATION TITLE (cont): Avionics System Cockpit Upgrade [MOD 1] 1-96-01-0612

FINANCIAL PLAN: (\$ in Millions)

| | FY 2008 and Prior | | 2009 | | 2010 | | TC | | Total | |
|---------------------------------|----------------------|-------|------|------|------|------|-----|-----|-------|-------|
| | Qty | \$ | Qty | \$ | Qty | \$ | Qty | \$ | Qty | \$ |
| | RDT&E | | | | | | | | | |
| Procurement | | | | | | | | | | |
| Kit Quantity | | | | | | | | | | |
| Installation Kits | 133 | 102.0 | 4 | 11.5 | 16 | 27.6 | | | 153 | 141.1 |
| Installation Kits, Nonrecurring | | | | | | | | | | |
| Equipment | | | | | | | | | | |
| Equipment, Nonrecurring | | | | | | | | | | |
| Engineering Change Orders | | | | | | | | | | |
| Data | | 0.8 | | 0.1 | | 0.1 | | | | 1.0 |
| Training Equipment | | | | | | | | | | |
| Support Equipment | | | | | | | | | | |
| Other | | | | | | | | | | |
| Interim Contractor Support | | | | | | | | | | |
| Installation of Hardware | | | | | | | | | | |
| FY 2008 & Prior Equip -- Kits | 133 | 42.5 | | | | | | | 133 | 42.5 |
| FY 2009 -- Kits | | | 4 | 4.9 | | | | | 4 | 4.9 |
| FY 2010 Equip -- Kits | | | | | 16 | 11.8 | | | 16 | 11.8 |
| FY 2011 Equip -- Kits | | | | | | | | | | |
| FY 2012 Equip -- Kits | | | | | | | | | | |
| FY 2013 Equip -- Kits | | | | | | | | | | |
| FY 2014 Equip -- Kits | | | | | | | | | | |
| FY 2015 Equip -- Kits | | | | | | | | | | |
| TC Equip-Kits | | | | | | | | | | |
| Total Installment | 133 | 42.5 | 4 | 4.9 | 16 | 11.8 | 0 | 0.0 | 153 | 59.2 |
| Total Procurement Cost | | 145.3 | | 16.5 | | 39.5 | | 0.0 | | 201.3 |

| | | | | | | |
|---|-------------|---------|---------------------------------|--|-------------|----------------|
| Exhibit P-40, Budget Item Justification Sheet | | | | | | Date: May 2009 |
| Appropriation / Budget Activity / Serial No: Aircraft Procurement, Army / 2 / Modification of aircraft | | | | P-1 Item Nomenclature AIRCRAFT LONG RANGE MODS (AA0560) | | |
| Program Elements for Code B Items: | | Code: | Other Related Program Elements: | | | |
| | Prior Years | FY 2008 | FY 2009 | FY 2010 | To Complete | Total Prog |
| Proc Qty | | | | | | |
| Gross Cost | 18.0 | 0.6 | 0.6 | 0.8 | | 20.0 |
| Less PY Adv Proc | | | | | | |
| Plus CY Adv Proc | | | | | | |
| Net Proc P1 | 18.0 | 0.6 | 0.6 | 0.8 | | 20.0 |
| Initial Spares | | | | | | |
| Total Proc Cost | 18.0 | 0.6 | 0.6 | 0.8 | | 20.0 |
| Flyaway U/C | | | | | | |
| Weapon System Proc U/C | | | | | | |
| <p>Description: The budget line updates and modernizes the C-20F, C-20E, C-37A and C-37B fixed wing aircraft, including communications and navigation equipment, enhancing the aircraft's capability for worldwide deployments. These aircraft support the Army's executive flight detachment at the three star and above level with required communications equipment.</p> <p>Justification: FY 10 Base Funding in the amount of \$.823 million will procure new C-20/C-37 Communication, Navigation, and Surveillance equipment as well as interior/exterior aircraft upgrades needed to support the crew in meeting the demands of the future air navigation system and the customer. Funds will be used to meet evolving avionics requirements resulting from a worldwide transition to a new air traffic management/control structure.</p> | | | | | | |

| | | | | | | |
|---|-------------|---------|---------------------------------|---|-------------|----------------|
| Exhibit P-40, Budget Item Justification Sheet | | | | | | Date: May 2009 |
| Appropriation / Budget Activity / Serial No: Aircraft Procurement, Army / 2 / Modification of aircraft | | | | P-1 Item Nomenclature UTILITY HELICOPTER MODS (AA0480) | | |
| Program Elements for Code B Items: | | Code: | Other Related Program Elements: | | | |
| | Prior Years | FY 2008 | FY 2009 | FY 2010 | To Complete | Total Prog |
| Proc Qty | | | | | | |
| Gross Cost | 877.6 | 65.9 | 27.0 | 69.2 | 336.7 | 1376.3 |
| Less PY Adv Proc | 13.5 | | | | | 13.5 |
| Plus CY Adv Proc | 13.5 | | | | | 13.5 |
| Net Proc P1 | 877.6 | 65.9 | 27.0 | 69.2 | 336.7 | 1376.3 |
| Initial Spares | | | | | | |
| Total Proc Cost | 877.6 | 65.9 | 27.0 | 69.2 | 336.7 | 1376.3 |
| Flyaway U/C | | | | | | |
| Weapon System Proc U/C | | | | | | |
| Description: Utility Helicopter Mods include modifications to the UH-60 BLACKHAWK helicopter and the Light Utility Helicopter (UH-72A LAKOTA). The UH-60 BLACKHAWK helicopter is the Army's utility helicopter in the future force. The UH-72A LAKOTA will provide general aviation support for CONUS based Table of Distribution and Allowance (TDA) and Table of Organization and Equipment (TOE) aviation units in the active and reserve components. | | | | | | |
| Justification: FY 10 Base funding in the amount of \$67 million will procure Crashworthy External Fuel Systems (CEFS)/ Conformal Auxilliary Fuel Systems (CAFS) and UH-60 A to L Conversions. CEFS/CAFS is a safety modification that reduces the risk of a post-crash fire. The UH-60 A to L Conversion program expands the current UH-60 A to A recapitalization/rebuild program to a UH-60 A to L recapitalization/upgrade program. FY 10 OCO funding in the amount of \$3 million will procure 72 ea Berthing & Positioning Systems (BAPS) kits. | | | | | | |

| | | | | | | |
|---|-------------|---------|---------------------------------|---|-------------|----------------|
| Exhibit P-40, Budget Item Justification Sheet | | | | | | Date: May 2009 |
| Appropriation / Budget Activity / Serial No: Aircraft Procurement, Army / 2 / Modification of aircraft | | | | P-1 Item Nomenclature UTILITY HELICOPTER MODS (AA0492) | | |
| Program Elements for Code B Items: | | Code: | Other Related Program Elements: | | | |
| | Prior Years | FY 2008 | FY 2009 | FY 2010 | To Complete | Total Prog |
| Proc Qty | | | | | | |
| Gross Cost | 877.6 | 65.9 | 27.0 | 69.2 | 336.7 | 1376.3 |
| Less PY Adv Proc | 13.5 | | | | | 13.5 |
| Plus CY Adv Proc | 13.5 | | | | | 13.5 |
| Net Proc P1 | 877.6 | 65.9 | 27.0 | 69.2 | 336.7 | 1376.3 |
| Initial Spares | | | | | | |
| Total Proc Cost | 877.6 | 65.9 | 27.0 | 69.2 | 336.7 | 1376.3 |
| Flyaway U/C | | | | | | |
| Weapon System Proc U/C | | | | | | |
| Description: Utility Helicopter Mods include modifications to the UH-60 BLACKHAWK helicopter and the Light Utility Helicopter (UH-72A LAKOTA). The UH-60 BLACKHAWK helicopter is the Army's utility helicopter in the future force. It is a twin engine, single rotor, four bladed utility helicopter used for air assault, air cavalry, troop and equipment transport, command & control, and medical evacuations (MEDEVAC) in active and reserve component theater, corps, division and Table of Distribution and Allowances (TDA) units. The UH-60 is joint force capable, provides 24 hour/day support including operations at night in adverse weather conditions. The UH-60 is designed to carry a crew of four plus eleven combat equipped troops or an external load up to 9,000 pounds. The UH-60 BLACK HAWK fleet consists of the UH-60A, first fielded in FY 1978, the newer UH-60L which was fielded in FY 1989 and the UH-60M which began low rate initial production in FY 2005 and full rate production FY 2007. The oldest UH-60As are now over 30 years old, and the average age of the UH-60A fleet is 23 years. The UH-72A LAKOTA will provide general aviation support for CONUS based TDA and Table of Organization and Equipment (TOE) aviation units in the active and reserve components. The UH-72A platform provides the flexibility to respond to Homeland Security (HLS) requirements, conducts civil search and rescue operations, supports damage assessment, supports test and training centers, performs generating force missions, augments the HH-60 MEDEVAC aircraft and provides support to the Continental United States (CONUS) counterdrug operations. The UH-72A provides time-sensitive transport of supplies or key personnel, air mobility to assist civil authorities through the execution of search and rescue or disaster relief operations, advance warning/detection of external threats to include threats to our borders, augmentation of air ambulance capabilities and limited command & control operations in the conduct of HLS. | | | | | | |
| Justification: FY 10 Base funding in the amount of \$67 million will procure Crashworthy External Fuel Systems (CEFS)/ Conformal Auxilliary Fuel Systems (CAFS) and UH-60 A to L Conversions. CEFS/CAFS is a safety modification that reduces the risk of a post-crash fire. The UH-60 A to L Conversion program expands the current UH-60 A to A recapitalization/rebuild program to a UH-60 A to L recapitalization/upgrade program. FY 10 OCO funding in the amount of \$3 million will procure 72 ea Berthing & Positioning Systems (BAPS) kits. | | | | | | |

| Exhibit P-40M, Budget Item Justification Sheet | | | | | | Date: |
|---|----------------|--------------|---|---------|---------------------------------|-------|
| Appropriation / Budget Activity / Serial No: Aircraft Procurement, Army / 2 / Modification of aircraft | | | P-1 Item Nomenclature UTILITY HELICOPTER MODS (AA0492) | | | |
| Program Elements for Code B Items: | | | | Code: | Other Related Program Elements: | |
| Description | | Fiscal Years | | | | |
| OSIP No. | Classification | 2008 & PR | FY 2009 | FY 2010 | TC | Total |
| Crashworthy External Fuel System (CEFS) | | | | | | |
| OSIP | Safety | 131.0 | 7.7 | 9.7 | 51.7 | 200.1 |
| UH-60A to UH-60L Conversion | | | | | | |
| OSIP | Operational | 9.9 | 0.0 | 57.0 | 285.0 | 351.9 |
| Brigade Sets | | | | | | |
| OSIP | Operational | 32.4 | 3.1 | 0.0 | 0.0 | 35.5 |
| UH-60A Rewiring | | | | | | |
| OSIP | Operational | 0.0 | 5.0 | 0.0 | 0.0 | 5.0 |
| UH-60 Improved Communications (ARC 220) | | | | | | |
| OSIP | Operational | 0.0 | 1.6 | 0.0 | 0.0 | 1.6 |
| HH-60A to HH-60L Upgrade | | | | | | |
| OSIP | Operational | 0.0 | 8.0 | 0.0 | 0.0 | 8.0 |
| UH-60 MEDEVAC Thermal Imaging Upgrades | | | | | | |
| OSIP | Operational | 0.0 | 1.6 | 0.0 | 0.0 | 1.6 |
| Berthing & Positioning System (BATS) | | | | | | |
| OSIP | Operational | 0.0 | 0.0 | 2.5 | 0.0 | 2.5 |
| Totals | | 173.3 | 26.9 | 69.2 | 336.7 | 606.1 |

INDIVIDUAL MODIFICATION

Date: May 2009

MODIFICATION TITLE: Crashworthy External Fuel System (CEFS) [MOD 1] OSIP

MODELS OF SYSTEM AFFECTED: UH-60A/L/Q/M

DESCRIPTION / JUSTIFICATION:

The Crashworthy External Fuel System (CEFS)/Conformal Auxilliary Fuel System (CAFS) is a safety modification that reduces the risk of a post-crash fire. The existing external fuel tanks were designed for self-deployment missions and do not meet current battlefield doctrine that requires these helicopters to fly long-range missions into hostile environments. CEFS/CAFS is critical to the safety and survivability of UH-60 helicopters. The Army Aviation Safety Center assessed the risk associated with continued routine flight operations using the current non-crashworthy tanks as high.

DEVELOPMENT STATUS / MAJOR DEVELOPMENT MILESTONE(S):

Development is complete.

Installation Schedule

| | Pr Yr Totals | FY 2009 | | | | FY 2010 | | | | FY 2011 | | | | FY 2012 | | | | FY 2013 | | | |
|---------|-----------------|---------|----|----|----|---------|---|---|---|---------|----|----|----|---------|----|----|----|---------|----|----|----|
| | | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 |
| Inputs | 693 | 10 | 10 | 10 | 10 | 9 | 9 | 9 | 8 | 16 | 16 | 16 | 16 | 16 | 16 | 16 | 17 | 16 | 16 | 16 | 17 |
| Outputs | 672 | 21 | 10 | 10 | 10 | 10 | 9 | 9 | 9 | 8 | 16 | 16 | 16 | 16 | 16 | 16 | 16 | 17 | 16 | 16 | 16 |

| | FY 2014 | | | | FY 2015 | | | | FY 2016 | | | | FY 2017 | | | | To Complete | Totals |
|---------|---------|----|----|----|---------|----|----|----|---------|---|---|---|---------|---|---|---|----------------|--------|
| | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 | | |
| Inputs | 16 | 16 | 16 | 17 | 32 | 32 | 32 | 34 | | | | | | | | | | 1157 |
| Outputs | 17 | 16 | 16 | 16 | 17 | 32 | 32 | 32 | 34 | | | | | | | | | 1157 |

METHOD OF IMPLEMENTATION: Contract Teams ADMINISTRATIVE LEADTIME: 2 months PRODUCTION LEADTIME: 9 months
 Contract Dates: FY 2010 - Nov 09 FY 2011 - Nov 10 FY 2012 -
 Delivery Dates: FY 2010 - Aug 10 FY 2011 - Aug 11 FY 2012 -

INDIVIDUAL MODIFICATION

Date: May 2009

MODIFICATION TITLE (cont): Crashworthy External Fuel System (CEFS) [MOD 1] OSIP

FINANCIAL PLAN: (\$ in Millions)

| | FY 2008 and Prior | | 2009 | | 2010 | | TC | | Total | |
|-------------------------------|----------------------|-------|------|-----|------|-----|-----|------|-------|-------|
| | Qty | \$ | Qty | \$ | Qty | \$ | Qty | \$ | Qty | \$ |
| | RDT&E | | | | | | | | | |
| Procurement | | | | | | | | | | |
| A-Kits (A/L) | 733 | 40.6 | 35 | 2.4 | 64 | 4.4 | 325 | 23.1 | 1157 | 70.5 |
| A-Kits (GFE to Production) | 32 | 2.7 | | | | | | | 32 | 2.7 |
| A-Kits (GFE to SAR Acft) | 10 | 0.6 | | | | | | | 10 | 0.6 |
| B-kits | 398 | 53.8 | 20 | 3.0 | 19 | 2.9 | 95 | 14.9 | 532 | 74.6 |
| Support Equipment/Other | | 27.9 | | 1.9 | | 2.0 | | 9.2 | | 41.0 |
| Installation of A-Kits | | | | | | | | | | |
| Kits | | | | | | | | | | |
| FY2006 & Prior Equip -- 349 | 609 | 4.5 | | | | | | | 609 | 4.5 |
| FY2007 Equip -- 84 Kits | 84 | 0.9 | | | | | | | 84 | 0.9 |
| FY2008 Equip --40 Kits | | | 40 | 0.4 | | | | | 40 | 0.4 |
| FY2009 Equip-- 35 Kits | | | | | 35 | 0.4 | | | 35 | 0.4 |
| FY2010 Equip -- 72 Kits | | | | | | | | | | |
| FY2011 Equip -- 70 Kits | | | | | | | | | | |
| FY2012 Equip-- 70 Kits | | | | | | | | | | |
| FY2013 Equip-- 70 Kits | | | | | | | | | | |
| FY2014 Equip-- 70 Kits | | | | | | | | | | |
| FY2015 Equip-- 70 Kits | | | | | | | | | | |
| TC Equip | | | | | | | 389 | 4.5 | 389 | 4.5 |
| Total Installment | 693 | 5.4 | 40 | 0.4 | 35 | 0.4 | 389 | 4.5 | 1157 | 10.7 |
| Total Procurement Cost | | 131.0 | | 7.7 | | 9.7 | | 51.7 | | 200.1 |

INDIVIDUAL MODIFICATION

Date: May 2009

MODIFICATION TITLE: UH-60A to UH-60L Conversion [MOD 2] OSIP

MODELS OF SYSTEM AFFECTED: UH-60A

DESCRIPTION / JUSTIFICATION:

Expands the current UH-60 A to A recapitalization/rebuild program to a UH-60 A to L recapitalization/upgrade program. Leverages ongoing UH-60 A to A recapitalization to further bridge the gap to UH-60M fielding and further reduces the overall O&S cost and logistics footprint of the fleet. Also provides an enhanced warfighting capability through aircraft performance improvements, to include installation of the T700-701D engine, improved durability gearbox, upgraded flight controls, and 9,000 lb cargo hook. Effort will also be leveraged to define future UH-60 L to L sustainment.

DEVELOPMENT STATUS / MAJOR DEVELOPMENT MILESTONE(S):

Installation Schedule

| Pr Yr Totals | FY 2009 | | | | FY 2010 | | | | FY 2011 | | | | FY 2012 | | | | FY 2013 | | | |
|-----------------|---------|---|---|---|---------|---|----|----|---------|----|----|----|---------|----|----|----|---------|----|----|----|
| | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 |
| Inputs | | | | | 9 | 9 | 10 | 10 | 9 | 9 | 10 | 10 | 9 | 9 | 10 | 10 | 9 | 9 | 10 | 10 |
| Outputs | | | | | | | 9 | 9 | 10 | 10 | 9 | 9 | 10 | 10 | 9 | 9 | 10 | 10 | 9 | 9 |

| 1 | FY 2014 | | | FY 2015 | | | FY 2016 | | | FY 2017 | | | To Complete | Totals |
|---------|---------|----|----|---------|----|----|---------|----|----|---------|---|--|----------------|--------|
| | 2 | 3 | 4 | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 | | | |
| Inputs | 9 | 9 | 10 | 10 | 9 | 9 | 10 | 10 | | | | | | 228 |
| Outputs | 10 | 10 | 9 | 9 | 10 | 10 | 9 | 9 | 10 | 10 | | | | 228 |

METHOD OF IMPLEMENTATION: Conversion at Depot ADMINISTRATIVE LEADTIME: 0 months PRODUCTION LEADTIME: 0 months
 Contract Dates: FY 2010 - FY 2011 - FY 2012 -
 Delivery Dates: FY 2010 - FY 2011 - FY 2012 -

INDIVIDUAL MODIFICATION

Date: May 2009

MODIFICATION TITLE (cont): UH-60A to UH-60L Conversion [MOD 2] OSIP

FINANCIAL PLAN: (\$ in Millions)

| | FY 2008 and Prior | | 2009 | | 2010 | | TC | | Total | |
|---------------------------------|----------------------|-----|------|-----|------|------|-----|-------|-------|-------|
| | Qty | \$ | Qty | \$ | Qty | \$ | Qty | \$ | Qty | \$ |
| | RDT&E | | | | | | | | | |
| Procurement | | 9.9 | | | 38 | 57.0 | 190 | 285.0 | 228 | 351.9 |
| Kit Quantity | | | | | | | | | | |
| Installation Kits | | | | | | | | | | |
| Installation Kits, Nonrecurring | | | | | | | | | | |
| Equipment | | | | | | | | | | |
| Equipment, Nonrecurring | | | | | | | | | | |
| Engineering Change Orders | | | | | | | | | | |
| Data | | | | | | | | | | |
| Training Equipment | | | | | | | | | | |
| Support Equipment | | | | | | | | | | |
| Other | | | | | | | | | | |
| Interim Contractor Support | | | | | | | | | | |
| Installation of Hardware | | | | | | | | | | |
| FY 2007 & Prior Equip -- Kits | | | | | | | | | | |
| FY 2008 -- Kits | | | | | | | | | | |
| FY 2009 Equip -- Kits | | | | | | | | | | |
| FY 2010 Equip -- Kits | | | | | | | | | | |
| FY 2011 Equip -- Kits | | | | | | | | | | |
| FY 2012 Equip -- Kits | | | | | | | | | | |
| FY 2013 Equip -- Kits | | | | | | | | | | |
| FY 2014 Equip -- Kits | | | | | | | | | | |
| TC Equip- Kits | | | | | | | | | | |
| Total Installment | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 |
| Total Procurement Cost | | 9.9 | | 0.0 | | 57.0 | | 285.0 | | 351.9 |

INDIVIDUAL MODIFICATION

Date: May 2009

MODIFICATION TITLE: UH-60A Rewiring [MOD 4] OSIP

MODELS OF SYSTEM AFFECTED: UH-60A

DESCRIPTION / JUSTIFICATION:
Congressional add for NGB. Funds passed to NGB for execution.

DEVELOPMENT STATUS / MAJOR DEVELOPMENT MILESTONE(S):

Installation Schedule

| Pr Yr Totals | FY 2009 | | | | FY 2010 | | | | FY 2011 | | | | FY 2012 | | | | FY 2013 | | | |
|-----------------|---------|---|---|---|---------|---|---|---|---------|---|---|---|---------|---|---|---|---------|---|---|---|
| | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 |
| Inputs | | | | | | | | | | | | | | | | | | | | |
| Outputs | | | | | | | | | | | | | | | | | | | | |

| 1 | 2 | 3 | 4 | FY 2014 | | | | FY 2015 | | | | FY 2016 | | | | FY 2017 | | | | To Complete | Totals | |
|---------|---|---|---|---------|---|---|---|---------|---|---|---|---------|---|---|---|---------|---|---|---|----------------|--------|--|
| | | | | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 | | | |
| Inputs | | | | | | | | | | | | | | | | | | | | | | |
| Outputs | | | | | | | | | | | | | | | | | | | | | | |

METHOD OF IMPLEMENTATION:

ADMINISTRATIVE LEADTIME:

0 months

PRODUCTION LEADTIME: 0 months

Contract Dates:

FY 2010 -

FY 2011 -

FY 2012 -

Delivery Dates:

FY 2010 -

FY 2011 -

FY 2012 -

INDIVIDUAL MODIFICATION

Date: May 2009

MODIFICATION TITLE (cont): UH-60A Rewiring [MOD 4] OSIP

FINANCIAL PLAN: (\$ in Millions)

| | FY 2008 and Prior | | 2009 | | 2010 | | TC | | Total | |
|---------------------------------|----------------------|-----|------|-----|------|-----|-----|-----|-------|-----|
| | Qty | \$ | Qty | \$ | Qty | \$ | Qty | \$ | Qty | \$ |
| | RDT&E | | | | | | | | | |
| Procurement | | | | 5.0 | | | | | | 5.0 |
| Kit Quantity | | | | | | | | | | |
| Installation Kits | | | | | | | | | | |
| Installation Kits, Nonrecurring | | | | | | | | | | |
| Equipment | | | | | | | | | | |
| Equipment, Nonrecurring | | | | | | | | | | |
| Engineering Change Orders | | | | | | | | | | |
| Data | | | | | | | | | | |
| Training Equipment | | | | | | | | | | |
| Support Equipment | | | | | | | | | | |
| Other | | | | | | | | | | |
| Interim Contractor Support | | | | | | | | | | |
| Installation of Hardware | | | | | | | | | | |
| FY 2008 & Prior Equip -- Kits | | | | | | | | | | |
| FY 2009 -- Kits | | | | | | | | | | |
| FY 2010 Equip -- Kits | | | | | | | | | | |
| FY 2011 Equip -- Kits | | | | | | | | | | |
| FY 2012 Equip -- Kits | | | | | | | | | | |
| FY 2013 Equip -- Kits | | | | | | | | | | |
| FY 2014 Equip -- Kits | | | | | | | | | | |
| FY 2015 Equip -- Kits | | | | | | | | | | |
| TC Equip- Kits | | | | | | | | | | |
| Total Installment | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 |
| Total Procurement Cost | | 0.0 | | 5.0 | | 0.0 | | 0.0 | | 5.0 |

INDIVIDUAL MODIFICATION

Date: May 2009

MODIFICATION TITLE: HH-60A to HH-60L Upgrade [MOD 6] OSIP

MODELS OF SYSTEM AFFECTED: HH-60A

DESCRIPTION / JUSTIFICATION:

Provides funding for Non-Recurring Engineering analysis to define airframe/component configuration changes required to Recap/upgrade HH-60A to HH-60L aircraft. Document changes via Engineering Change Proposal(ECP), define draft work instruction/installation procedures through identification of existing Modification Work Orders (MWOs) and development of new Special Service Instructions (SSIs) as required.

DEVELOPMENT STATUS / MAJOR DEVELOPMENT MILESTONE(S):

Installation Schedule

| Pr Yr | FY 2009 | | | | FY 2010 | | | | FY 2011 | | | | FY 2012 | | | | FY 2013 | | | |
|---------|---------|---|---|---|---------|---|---|---|---------|---|---|---|---------|---|---|---|---------|---|---|---|
| | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 |
| Totals | | | | | | | | | | | | | | | | | | | | |
| Inputs | | | | | | | | | | | | | | | | | | | | |
| Outputs | | | | | | | | | | | | | | | | | | | | |

| Pr Yr | FY 2014 | | | | FY 2015 | | | | FY 2016 | | | | FY 2017 | | | | To Complete | Totals |
|---------|---------|---|---|---|---------|---|---|---|---------|---|---|---|---------|---|---|---|-------------|--------|
| | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 | | |
| Inputs | | | | | | | | | | | | | | | | | | |
| Outputs | | | | | | | | | | | | | | | | | | |

METHOD OF IMPLEMENTATION:

ADMINISTRATIVE LEADTIME:

0 months

PRODUCTION LEADTIME:

0 months

Contract Dates: FY 2010 -

FY 2011 -

FY 2012 -

Delivery Dates: FY 2010 -

FY 2011 -

FY 2012 -

INDIVIDUAL MODIFICATION

Date: May 2009

MODIFICATION TITLE (cont): HH-60A to HH-60L Upgrade [MOD 6] OSIP

FINANCIAL PLAN: (\$ in Millions)

| | FY 2008 and Prior | | 2009 | | 2010 | | TC | | Total | |
|---------------------------------|----------------------|-----|------|-----|------|-----|-----|-----|-------|-----|
| | Qty | \$ | Qty | \$ | Qty | \$ | Qty | \$ | Qty | \$ |
| | RDT&E | | | | | | | | | |
| Procurement | | | | 8.0 | | | | | | 8.0 |
| Kit Quantity | | | | | | | | | | |
| Installation Kits | | | | | | | | | | |
| Installation Kits, Nonrecurring | | | | | | | | | | |
| Equipment | | | | | | | | | | |
| Equipment, Nonrecurring | | | | | | | | | | |
| Engineering Change Orders | | | | | | | | | | |
| Data | | | | | | | | | | |
| Training Equipment | | | | | | | | | | |
| Support Equipment | | | | | | | | | | |
| Other | | | | | | | | | | |
| Interim Contractor Support | | | | | | | | | | |
| Installation of Hardware | | | | | | | | | | |
| FY 2008 & Prior Equip -- Kits | | | | | | | | | | |
| FY 2009 -- Kits | | | | | | | | | | |
| FY 2010 Equip -- Kits | | | | | | | | | | |
| FY 2011 Equip -- Kits | | | | | | | | | | |
| FY 2012 Equip -- Kits | | | | | | | | | | |
| FY 2013 Equip -- Kits | | | | | | | | | | |
| FY 2014 Equip -- Kits | | | | | | | | | | |
| FY 2015 Equip -- Kits | | | | | | | | | | |
| TC Equip- Kits | | | | | | | | | | |
| Total Installment | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 |
| Total Procurement Cost | | 0.0 | | 8.0 | | 0.0 | | 0.0 | | 8.0 |

| | | | | | | |
|--|-------------|---------|---------------------------------|---|-------------|----------------|
| Exhibit P-40, Budget Item Justification Sheet | | | | | | Date: May 2009 |
| Appropriation / Budget Activity / Serial No: Aircraft Procurement, Army / 2 / Modification of aircraft | | | | P-1 Item Nomenclature KIOWA WARRIOR (AZ2200) | | |
| Program Elements for Code B Items: | | Code: | Other Related Program Elements: | | | |
| | Prior Years | FY 2008 | FY 2009 | FY 2010 | To Complete | Total Prog |
| Proc Qty | | | | | | |
| Gross Cost | 3513.2 | 88.8 | 117.1 | 235.1 | | 3954.2 |
| Less PY Adv Proc | 223.3 | | | | | 223.3 |
| Plus CY Adv Proc | 223.3 | | | | | 223.3 |
| Net Proc P1 | 3513.2 | 88.8 | 117.1 | 235.1 | | 3954.2 |
| Initial Spares | | | | | | |
| Total Proc Cost | 3513.2 | 88.8 | 117.1 | 235.1 | | 3954.2 |
| Flyaway U/C | | | | | | |
| Weapon System Proc U/C | | | | | | |
| Description: | | | | | | |
| <p>The OH-58D Kiowa Warrior is a two-seat, single-engine, observation, scout/attack helicopter with four main rotor blades. It utilizes a thermal-imaging system and a laser rangefinder/designator in a mast-mounted sight situated above the main rotor system. The aircraft is equipped with a variety of weapon systems including: HELLFIRE, 2.75-inch rockets, and a .50-caliber machine gun. The aircraft operates autonomously at standoff ranges providing armed reconnaissance, command and control, and target acquisition/designation for Apache helicopters and other airborne weapons platforms in day, night, and adverse-weather conditions. The Active Army and the National Guard fly Kiowa Warriors.</p> <p>To be both safe and operationally compatible with the digitized battlefield, an ongoing Safety Enhancement Program (SEP) incorporates upgraded engines and engine barrier filters, crashworthy crew seats, cockpit airbags, enhanced digitization capabilities, and improved weapons interface. The SEP reduces pilot workload during emergency maneuvers and significantly improves the crashworthiness of the aircraft thus enhancing crew survivability. Partial SEP improvements had previously been incorporated into the later lots of Bell Helicopter's Kiowa Warrior remanufacture/retrofit lines; those aircraft will receive missing portions of the SEP modifications through field retrofit activities. Other fielded Kiowa Warrior aircraft are being SEP modified via a combination of efforts on the contractor's SEP modification line and through field retrofit.</p> <p>The SEP Weight Reduction initiatives will increase safety by reducing the aircraft weight thus improving operational and autorotational characteristics. The Program will also increase system reliability and lower support costs. Efforts include removing obsolete and extraneous hardware, repainting after removing excess layers of paint, replacing the current bomb rack, replacing armor panels with lighter-weight, better protective ones, updating the multifunction displays (MFDs) with lightweight MFDs, providing a lighter weight and better positioned common transponder and video data transfer system.</p> <p>The Life Support 2020 program will address additional safety and obsolescence issues to allow the aircraft to safely serve as the Army's night, armed-reconnaissance, aviation platform until replaced/retired. Efforts include upgrading to CDS 5, adding AN/ARC231 SATCOM radios, color MFDs, third MFD, Dual Channel FADEC, improved .50 cal gun, replace mast mounted site with a nose-mounted common sensor, and other safety upgrades.</p> <p>To replace aircraft lost during Overseas Contingency Operations and to return the fleet size to the quantity required for full readiness levels, Kiowa Scout (OH-58A) model airframes must be modified into new Kiowa Warriors (OH-58D). These new Kiowa Warriors will be delivered in the planned configuration; including meeting all SEP, Weight Reduction and Life Support 2020</p> | | | | | | |

| | | |
|--|-------|---|
| Exhibit P-40, Budget Item Justification Sheet | | Date: May 2009 |
| Appropriation / Budget Activity / Serial No: Aircraft Procurement, Army / 2 / Modification of aircraft | | P-1 Item Nomenclature KIOWA WARRIOR (AZ2200) |
| Program Elements for Code B Items: | Code: | Other Related Program Elements: |
| <p>requirements. ISR Task Force added funds for Video from Unmanned Aircraft Systems Interoperability Teaming - Level 2 (VUIT -2)</p> <p>Justification: FY 2010 Base Funding in the amount of \$141 Million will procure the continuation of SEP, Weight Reduction, and Life Support 2020 efforts. It procures modifications which allow the Kiowa Warrior to safely serve as the Army's, armed-reconnaissance, aviation platform until replaced/retired.</p> <p>FY 2010 OCO Funding in the amount of \$94 Million will procure VUIT-2 and the modification of OH-58A models to OH-58D models in the planned configuration including all SEP, Weight Reduction and Life Support 2020 modifications</p> | | |

| | | | | | | |
|---|-----------------|--------------|---|---------------------------------|-----|-------------------|
| Exhibit P-40M, Budget Item Justification Sheet | | | | | | Date: May 2009 |
| Appropriation / Budget Activity / Serial No: Aircraft Procurement, Army / 2 / Modification of aircraft | | | P-1 Item Nomenclature KIOWA WARRIOR (AZ2200) | | | |
| Program Elements for Code B Items: | | | Code: | Other Related Program Elements: | | |
| Description | | Fiscal Years | | | | |
| OSIP No. | Classification | 2008 & PR | FY 2009 | FY 2010 | TC | Total |
| Safety Enhancement Program (SEP) | | | | | | |
| 2-97-01-0115 | Safety | 380.6 | 60.5 | 42.4 | 0.0 | 483.5 |
| Safety Enhancement Program - Weight Reduction | | | | | | |
| 2-02-01-0116 | Safety | 59.8 | 9.8 | 1.8 | 0.0 | 71.4 |
| Life Support 2020 | | | | | | |
| 2-08-01-0117 | Life Extension | 15.4 | 46.8 | 96.6 | 0.0 | 158.8 |
| OH-58A to OH-58D Conversion | | | | | | |
| 2-10-01-0118 | AC Modification | 0.0 | 0.0 | 94.3 | 0.0 | 94.3 |
| Totals | | 455.8 | 117.1 | 235.1 | 0.0 | 808.0 |

INDIVIDUAL MODIFICATION

Date: May 2009

MODIFICATION TITLE: Safety Enhancement Program (SEP) [MOD 1] 2-97-01-0115

MODELS OF SYSTEM AFFECTED: OH-58D Kiowa Warrior

DESCRIPTION / JUSTIFICATION:

The Safety Enhancement Program (SEP) addresses safety issues and enables Kiowa Warrior performance as a digitized platform capable of integrated combat engagement via the Tactical Internet. R3 Engines with Full Authority Digital Electronic Control increase reliability, control responsiveness, and overcome a rotor droop anomaly by providing faster response time to power demands. Engine barrier filters improve engine reliability by reducing damage from sand/dust ingestion and by increasing engine meantime between overhaul. The Improved Master Controller Processor Unit (IMCPU) increases memory and throughput and reduces both aircraft empty weight and Operating and Support (O&S) costs. The IMCPU accommodates upgraded software required for digital communications and provides the Variable Message Format (VMF). Energy attenuating seats provide crew safety in case of vertical and horizontal impacts. Cockpit airbags increase crew protection. Of the current fleet of 341 Kiowa Warriors, all (including nine Category B trainers) will receive SEP modifications; 264 are being accomplished on the contractor's modification line and 77 additional aircraft had been partially equipped in prior remanufacture/retrofit lines. Thirty-one of the SEP-modified aircraft have been lost to attrition. Equipment not installed at the contractor's facility will be applied via field retrofit. In order to complete the SEP, aircraft will be modified at the contractor's facility plus some will have seats, airbags, and engine barrier filters installed in the field. The full fleet of 341 aircraft will be equipped with engine barrier filters, seats, and airbags.

DEVELOPMENT STATUS / MAJOR DEVELOPMENT MILESTONE(S):

Multiple installations will be done on individual aircraft. The majority of aircraft will be block-modified on the Bell Helicopter Textron, Inc. line via annual contractual orders and will be delivered over a 12-month period. Some aircraft will receive the complete complement of modifications at that facility. Others will receive portions of the modification efforts via field retrofit. Hardware installation dollars fund a variety of field retrofit modifications. The block-modification installations on the contractor's modification line are not separately priced and therefore the dollars are embedded in the Recurring line for each year.

Installation Schedule

| Pr Yr Totals | FY 2009 | | | | FY 2010 | | | | FY 2011 | | | | FY 2012 | | | | FY 2013 | | | |
|-----------------|---------|---|---|---|---------|---|---|---|---------|---|---|---|---------|---|---|---|---------|---|---|---|
| | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 |
| Inputs | | | | | | | | | | | | | | | | | | | | |
| Outputs | | | | | | | | | | | | | | | | | | | | |

| 1 | FY 2014 | | | FY 2015 | | | FY 2016 | | | FY 2017 | | | To Complete | Totals |
|---------|---------|---|---|---------|---|---|---------|---|---|---------|---|---|----------------|--------|
| | 2 | 3 | 4 | 1 | 2 | 3 | 1 | 2 | 3 | 1 | 2 | 3 | | |
| Inputs | | | | | | | | | | | | | | |
| Outputs | | | | | | | | | | | | | | |

METHOD OF IMPLEMENTATION: Kr line & fld retrofit ADMINISTRATIVE LEADTIME: 0 months PRODUCTION LEADTIME: 0 months
 Contract Dates: FY 2010 - FY 2011 - FY 2012 -
 Delivery Dates: FY 2010 - FY 2011 - FY 2012 -

INDIVIDUAL MODIFICATION

Date: May 2009

MODIFICATION TITLE (cont): Safety Enhancement Program (SEP) [MOD 1] 2-97-01-0115

FINANCIAL PLAN: (\$ in Millions)

| | FY 2008 and Prior | | 2009 | | 2010 | | TC | | Total | |
|---|----------------------|-------|------|------|------|------|-----|-----|-------|-------|
| | Qty | \$ | Qty | \$ | Qty | \$ | Qty | \$ | Qty | \$ |
| | RDT&E | | | | | | | | | |
| Procurement | | | | | | | | | | |
| Aircraft Modified - Bell Helicopter | 312 | | | | | | | | 312 | |
| Nonrecurring | | 40.7 | | 5.5 | | 8.8 | | | | 55.0 |
| Recurring - Bell Helicopter | | 147.2 | | 25.7 | | 31.0 | | | | 203.9 |
| Government-Furnished Equipment | | 128.8 | | 25.8 | | 0.4 | | | | 155.0 |
| Engineering Change Orders | | 0.2 | | 1.2 | | 0.4 | | | | 1.8 |
| Aircraft Preparation | | 16.3 | | | | | | | | 16.3 |
| Fielding | | 5.3 | | 1.0 | | 0.7 | | | | 7.0 |
| Training/Training Devices | | 9.0 | | | | | | | | 9.0 |
| Other | | 22.5 | | 0.1 | | 0.5 | | | | 23.1 |
| Technical Support | | 5.5 | | 0.5 | | 0.6 | | | | 6.6 |
| Installation of Hardware - Field | | | | | | | | | | |
| FY 2002 & Prior Equip -- Kits | | 0.8 | | | | | | | | 0.8 |
| FY 2003 -- Kits | | 0.6 | | | | | | | | 0.6 |
| FY 2004 Equip -- Kits | | 0.7 | | | | | | | | 0.7 |
| FY 2005 Equip -- Kits | | 0.6 | | | | | | | | 0.6 |
| FY 2006 Equip -- Kits | | 0.5 | | | | | | | | 0.5 |
| FY 2007 Equip -- Kits | | 0.9 | | | | | | | | 0.9 |
| FY 2008 Equip -- Kits | | 1.0 | | | | | | | | 1.0 |
| FY 2009 Equip -- Kits | | | | 0.7 | | | | | | 0.7 |
| FY 2010 Equip -- Kits | | | | | | | | | | |
| Total Installment | 0 | 5.1 | 0 | 0.7 | 0 | 0.0 | 0 | 0.0 | 0 | 5.8 |
| Total Procurement Cost | | 380.6 | | 60.5 | | 42.4 | | 0.0 | | 483.5 |

INDIVIDUAL MODIFICATION

Date: May 2009

MODIFICATION TITLE: Safety Enhancement Program - Weight Reduction [MOD 2] 2-02-01-0116

MODELS OF SYSTEM AFFECTED: OH-58D Kiowa Warrior

DESCRIPTION / JUSTIFICATION:

The Safety Enhancement Weight Reduction Program addresses the safety of the Kiowa Warrior and its crew. The safety of the crew depends to a large extent on the maneuverability and performance of the aircraft. Due to its overweight condition, the Kiowa Warrior has an existing operational safety deficiency for autorotational capability. The Weight Reduction modifications will reduce the aircraft weight thus improving the margin of safety, correcting aft center of gravity and providing increased power margin. Efforts include the following initiatives: bomb racks, lightweight multi-function displays, a video data transfer system, a lighter weight and better positioned common transponder and a better protective set of armor panels. Additionally, extraneous hardware and paint layers will be removed. Of the current fleet of 341 aircraft, various lesser quantities are planned for weight reduction modifications due to the projected retirement schedule of the fleet. These modifications will be applied primarily to Kiowa Warriors in the Control Display Symbology, version 4 (CDS4) configuration.

DEVELOPMENT STATUS / MAJOR DEVELOPMENT MILESTONE(S):

Aircraft will be equipped/modified via field retrofits.

Installation Schedule

| Pr Yr Totals | FY 2009 | | | | FY 2010 | | | | FY 2011 | | | | FY 2012 | | | | FY 2013 | | | |
|-----------------|---------|---|---|---|---------|---|---|---|---------|---|---|---|---------|---|---|---|---------|---|---|---|
| | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 |
| Inputs | | | | | | | | | | | | | | | | | | | | |
| Outputs | | | | | | | | | | | | | | | | | | | | |

| 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 | To Complete | Totals | |
|---------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----------------|--------|---------|
| | | | | | | | | | | | | | | | | | | FY 2014 |
| Inputs | | | | | | | | | | | | | | | | | | |
| Outputs | | | | | | | | | | | | | | | | | | |

METHOD OF IMPLEMENTATION: Field Retrofit ADMINISTRATIVE LEADTIME: 0 months PRODUCTION LEADTIME: 0 months
 Contract Dates: FY 2010 - FY 2011 - FY 2012 -
 Delivery Dates: FY 2010 - FY 2011 - FY 2012 -

INDIVIDUAL MODIFICATION

Date: May 2009

MODIFICATION TITLE (cont): Safety Enhancement Program - Weight Reduction [MOD 2] 2-02-01-0116

FINANCIAL PLAN: (\$ in Millions)

| | FY 2008 and Prior | | 2009 | | 2010 | | TC | | Total | |
|--|----------------------|------|------|-----|------|-----|-----|-----|-------|------|
| | Qty | \$ | Qty | \$ | Qty | \$ | Qty | \$ | Qty | \$ |
| | RD&E | | | | | | | | | |
| Procurement | | | | | | | | | | |
| Kit Quantity | | | | | | | | | | |
| Nonrecurring | | 1.2 | | | | | | | | 1.2 |
| Recurring Labor | | 2.9 | | | | | | | | 2.9 |
| Hardware | | 45.6 | | 7.5 | | | | | | 53.1 |
| Data/Pubs/Manuals | | 1.0 | | | | | | | | 1.0 |
| Support Equipment | | | | | | | | | | |
| Other | | 7.4 | | 1.5 | | 1.0 | | | | 9.9 |
| Fielding | | | | | | | | | | |
| Training/Training Devices | | | | | | | | | | |
| Installation of Hardware (Retrofit) | | | | | | | | | | |
| FY 2003 & Prior Equip -- Kits | | | | | | | | | | |
| FY 2004 Equip -- Kits | | | | | | | | | | |
| FY 2005 Equip -- Kits | | | | | | | | | | |
| FY 2006 Equip -- Kits | | 0.1 | | | | | | | | 0.1 |
| FY 2007 Equip -- Kits | | 0.6 | | | | | | | | 0.6 |
| FY 2008 Equip -- Kits | | 1.0 | | | | | | | | 1.0 |
| FY 2009 Equip -- Kits | | | | 0.8 | | | | | | 0.8 |
| FY 2010 Equip -- Kits | | | | | | 0.8 | | | | 0.8 |
| FY2011 Equip -- Kits | | | | | | | | | | |
| TC Equip -- Kits | | | | | | | | | | |
| Total Installment | 0 | 1.7 | 0 | 0.8 | 0 | 0.8 | 0 | 0.0 | 0 | 3.3 |
| Total Procurement Cost | | 59.8 | | 9.8 | | 1.8 | | 0.0 | | 71.4 |

INDIVIDUAL MODIFICATION

Date: May 2009

MODIFICATION TITLE: Life Support 2020 [MOD 3] 2-08-01-0117

MODELS OF SYSTEM AFFECTED: OH-58D Kiowa Warrior

DESCRIPTION / JUSTIFICATION:

The Life Support 2020 program addresses issues relating to extending the useful life of the Kiowa Warrior as the Army's armed reconnaissance, aviation platform until replaced/retired. Efforts include upgrading to Control Display System version 5 (CDS5), installing AN/ARC231 SATCOM radios, Color multi-function displays, 3rd multi-function display, Dual Channel FADEC, Common Missile Warning System (CMWS), improved .50 cal gun, replacing the Mast Mounted Site (MMS) system with a nose-mounted common sensor, and retrofitting the fleet with light weight digital launchers and universal weapons pylon. The current fleet of 341 aircraft is planned to be modified. Trainers will be upgraded to maintain concurrency.

DEVELOPMENT STATUS / MAJOR DEVELOPMENT MILESTONE(S):

Aircraft will be block modified at RESET locations.

Installation Schedule

| Pr Yr | FY 2009 | | | | FY 2010 | | | | FY 2011 | | | | FY 2012 | | | | FY 2013 | | | |
|---------|---------|---|---|---|---------|---|---|---|---------|---|---|---|---------|----|----|----|---------|----|----|----|
| | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 |
| Totals | | | | | | | | | | | 9 | 9 | 24 | 24 | 24 | 24 | 24 | 24 | 24 | 24 |
| Inputs | | | | | | | | | | | 3 | 9 | 14 | 24 | 24 | 24 | 24 | 24 | 24 | 24 |
| Outputs | | | | | | | | | | | | | | | | | | | | |

| | FY 2014 | | | | FY 2015 | | | | FY 2016 | | | | FY 2017 | | | | To Complete | Totals |
|---------|---------|----|----|----|---------|----|----|---|---------|---|---|---|---------|---|---|---|-------------|--------|
| | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 | | |
| Inputs | 24 | 24 | 24 | 24 | 12 | 12 | 11 | | | | | | | | | | | 341 |
| Outputs | 24 | 24 | 24 | 24 | 20 | 12 | 12 | 7 | | | | | | | | | | 341 |

METHOD OF IMPLEMENTATION:

ADMINISTRATIVE LEADTIME:

0 months

PRODUCTION LEADTIME: 0 months

Contract Dates:

FY 2010 -

FY 2011 -

FY 2012 -

Delivery Dates:

FY 2010 -

FY 2011 -

FY 2012 -

INDIVIDUAL MODIFICATION

Date: May 2009

MODIFICATION TITLE (cont): Life Support 2020 [MOD 3] 2-08-01-0117

FINANCIAL PLAN: (\$ in Millions)

| | FY 2008 and Prior | | 2009 | | 2010 | | TC | | Total | |
|---------------------------------|----------------------|------|------|------|------|------|-----|-----|-------|-------|
| | Qty | \$ | Qty | \$ | Qty | \$ | Qty | \$ | Qty | \$ |
| | RDT&E | | | | | | | | | |
| Procurement | | | | | | | | | | |
| Kit Quantity | | | | | | | | | | |
| Hardware | | 14.3 | | 38.7 | | 90.4 | | | | 143.4 |
| Training/Devices | | 0.3 | | 6.2 | | 5.1 | | | | 11.6 |
| Tech Pubs | | | | 1.0 | | 1.0 | | | | 2.0 |
| Support Equipment | | | | | | | | | | |
| Other | | | | | | 0.1 | | | | 0.1 |
| Fielding | | 0.8 | | 0.9 | | | | | | 1.7 |
| Installation of Hardware | | | | | | | | | | |
| FY 2008 & Prior Equip -- Kits | | | | | | | | | | |
| FY 2009 Equip -- Kits | | | | | | | | | | |
| FY 2010 Equip -- Kits | | | | | | | | | | |
| FY 2011 Equip -- Kits | | | | | | | | | | |
| FY 2012 Equip -- Kits | | | | | | | | | | |
| FY 2013 Equip -- Kits | | | | | | | | | | |
| FY 2014 Equip -- Kits | | | | | | | | | | |
| FY 2015 Equip -- Kits | | | | | | | | | | |
| TC Equip- Kits | | | | | | | | | | |
| Total Installment | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 |
| Total Procurement Cost | | 15.4 | | 46.8 | | 96.6 | | 0.0 | | 158.8 |

INDIVIDUAL MODIFICATION

Date: May 2009

MODIFICATION TITLE: OH-58A to OH-58D Conversion [MOD 4] 2-10-01-0118

MODELS OF SYSTEM AFFECTED: OH-58D Kiowa Warrior

DESCRIPTION / JUSTIFICATION:

Fy 2010 OCO funding will procure modifications of OH-58A airframes into OH-58D aircraft to replace aircraft lost during Overseas Contingency Operations. OH-58A model airframes will be modified at Bell Helicopter Textron Industries into OH-58D airframes and Corpus Christi Army Depot (CCAD) will incorporate all equipment and modifications to the current planned configuration including all SEP, Weight Reduction and Life Support 2020 modifications. ISR Task force added funds for Video from Unmanned Aircraft Systems Interoperability Teaming - Level 2 (VUIT-2).

DEVELOPMENT STATUS / MAJOR DEVELOPMENT MILESTONE(S):

Airframes will be modified at Bell and the rest of the modifications will be at CCAD.

Installation Schedule

| Pr Yr Totals | FY 2009 | | | | FY 2010 | | | | FY 2011 | | | | FY 2012 | | | | FY 2013 | | | |
|-----------------|---------|---|---|---|---------|---|---|---|---------|---|---|---|---------|---|---|---|---------|---|---|---|
| | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 |
| Inputs | | | | | | 2 | 2 | 2 | | | | | | | | | | | | |
| Outputs | | | | | | | | | | | | 2 | 2 | 2 | | | | | | |

| 1 | FY 2014 | | | FY 2015 | | | | FY 2016 | | | | FY 2017 | | | | To Complete | Totals |
|---------|---------|---|---|---------|---|---|---|---------|---|---|---|---------|---|---|---|----------------|--------|
| | 2 | 3 | 4 | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 | | |
| Inputs | | | | | | | | | | | | | | | | | 6 |
| Outputs | | | | | | | | | | | | | | | | | 6 |

METHOD OF IMPLEMENTATION:

ADMINISTRATIVE LEADTIME:

4 months

PRODUCTION LEADTIME:

18 months

Contract Dates:

FY 2010 - Feb 2010

FY 2011 -

FY 2012 -

Delivery Dates:

FY 2010 - Aug 2011

FY 2011 -

FY 2012 -

INDIVIDUAL MODIFICATION

Date: May 2009

MODIFICATION TITLE (cont): OH-58A to OH-58D Conversion [MOD 4] 2-10-01-0118

FINANCIAL PLAN: (\$ in Millions)

| | FY 2008 and Prior | | 2009 | | 2010 | | TC | | Total | |
|---------------------------------|----------------------|-----|------|-----|------|------|-----|-----|-------|------|
| | Qty | \$ | Qty | \$ | Qty | \$ | Qty | \$ | Qty | \$ |
| | RDT&E | | | | | | | | | |
| Procurement | | | | | | | | | | |
| AC Modification Quantity | | | | | 6 | | | | 6 | |
| BHTI Airframe Mod | | | | | | 41.9 | | | | 41.9 |
| Government Furnished | | | | | | 18.5 | | | | 18.5 |
| Equipment | | | | | | | | | | |
| CCAD Labor | | | | | | 6.1 | | | | 6.1 |
| Program Support - Govt | | | | | | 3.7 | | | | 3.7 |
| VUIT-2 | | | | | | 24.1 | | | | 24.1 |
| Installation of Hardware | | | | | | | | | | |
| FY 2008 & Prior Equip -- Kits | | | | | | | | | | |
| FY 2009 -- Kits | | | | | | | | | | |
| FY 2010 Equip -- Kits | | | | | | | | | | |
| FY 2011 Equip -- Kits | | | | | | | | | | |
| FY 2012 Equip -- Kits | | | | | | | | | | |
| FY 2013 Equip -- Kits | | | | | | | | | | |
| FY 2014 Equip -- Kits | | | | | | | | | | |
| FY 2015 Equip -- Kits | | | | | | | | | | |
| TC Equip- Kits | | | | | | | | | | |
| Total Installment | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 |
| Total Procurement Cost | | 0.0 | | 0.0 | | 94.3 | | 0.0 | | 94.3 |

| | | | | | | |
|--|-------------|---------|--|---|-------------|----------------|
| Exhibit P-40, Budget Item Justification Sheet | | | | | | Date: May 2009 |
| Appropriation / Budget Activity / Serial No: Aircraft Procurement, Army / 2 / Modification of aircraft | | | | P-1 Item Nomenclature AIRBORNE AVIONICS (AA0700) | | |
| Program Elements for Code B Items: | | Code: | Other Related Program Elements: PE 0604201A, SSN AA0704 | | | |
| | Prior Years | FY 2008 | FY 2009 | FY 2010 | To Complete | Total Prog |
| Proc Qty | | | | | | |
| Gross Cost | 943.1 | 169.1 | 174.5 | 241.3 | | 1528.0 |
| Less PY Adv Proc | | | | | | |
| Plus CY Adv Proc | | | | | | |
| Net Proc P1 | 943.1 | 169.1 | 174.5 | 241.3 | | 1528.0 |
| Initial Spares | 74.0 | 3.3 | 4.8 | 7.1 | | 89.3 |
| Total Proc Cost | 1017.1 | 172.4 | 179.3 | 248.4 | | 1617.2 |
| Flyaway U/C | | | | | | |
| Weapon System Proc U/C | | | | | | |
| Description: | | | | | | |
| <p>The Airborne Avionics budget line includes the Global Positioning System (GPS), the Aviation Mission Planning System (AMPS), the Improved Data Modem (IDM), Aviation Tactical Communications Systems (ATCS), and Military Flight Operations Quality Assurance (MFOQA). The GPS, IDM, AMPS, and ATCS are four of the aviation systems required to support the digitization of the battlefield.</p> <p>The GPS provides Army Aviation with extremely accurate and secure navigation and timing, assists in situational awareness, and aids in prevention of fratricide. GPS is installed in two configurations based upon mission profile, operational requirements, and avionics architecture of the aircraft. The Doppler GPS Navigation System (DGNS) is used for the Non-bussed Utility and Cargo helicopters. The Embedded GPS Inertial Navigation System (EGI) is integrated into the Modernized Cargo, Utility, Attack, and Special Operations fleets of helicopters. A Pre-Planned Product Improvement (P3I) to the DGNS and EGI began in FY01 to integrate a Selective Availability Anti-Spoofing Module (SAASM) and Instrument Flight Rule (IFR) navigation capability. The P3I DGNS (AN/ASN-128D) is being installed on the Blackhawk (UH-60A/L and HH-60A/L) and Chinook (CH-47D) aircraft. The P3I EGI is being installed on UH/HH-60M, CH-47F, Longbow Apache (AH-64D), and Special Operations Aircraft (SOA). M-code is a new GPS security architecture and signal in space, mandated to support navigation warfare (NAVWAR) requirements in accordance with the Assistant Secretary of Defense (ASD) Memorandum Subject: Global Positioning System User Equipment Development and Procurement Policy, dated 7 August 2006. In order to minimize aircraft integration and testing requirements, introduction of M-Code capable GPS receivers is planned to coincide with the JPALS program.</p> <p>The AMPS is a mission planning/battle synchronization tool that automates aviation mission planning tasks, including tactical command and control, mission planning, and flight planning. It interfaces with Army Battle Command Systems (ABCS) and associated networks which furnish the aviation commander with continuous situational awareness, allowing the commander to rapidly adjust mission plans. AMPS generates mission data in either hard copy or electronic formats. The electronic formats are loaded onto the aircraft platforms, initializing the communication, navigation, situational awareness, and weapons systems on modernized fleet aircraft including the AH-64A, AH-64D, CH-47D/F, Kiowa Warrior (OH-58D), UH-60A/L/M/Q, HH-60L/M, and Unmanned Aerial Systems (UAS). The AMPS program includes management of the Commander's Aviation Risk Tool (CART) and the Centralized Automated Flight Record System (CAFRS). To accommodate rapid commercial technology changes, the overall system hardware is replaced after five years of use.</p> <p>The IDM is the common solution for digitizing Army Aviation. It performs as an internet controller and gateway to Tactical Internet (TI) and Fire Support (FS) internet for Army aircraft. With interfaces supporting a 6 channel transmit/receive terminal, the IDM provides radio connectivity to the ARC-201D/210/220/231, ARC-186, ARC-164, and the Blue Force Tracker's (BFT) MT-2011</p> | | | | | | |

| | | | |
|---|-------|--|----------|
| Exhibit P-40, Budget Item Justification Sheet | | Date: | May 2009 |
| Appropriation / Budget Activity / Serial No: Aircraft Procurement, Army / 2 / Modification of aircraft | | P-1 Item Nomenclature AIRBORNE AVIONICS (AA0700) | |
| Program Elements for Code B Items: | Code: | Other Related Program Elements: PE 0604201A, SSN AA0704 | |
| <p>Transceiver, as well as providing 1553 and Ethernet portals for rapid data transfer. This hardware/software solution also provides a flexible, software-driven digital messaging system that is interoperable with existing Army and Joint forces battlefield operating systems. The IDM provides Situational Awareness and Joint Variable Message Format messages capability to the cockpit. The IDM is currently utilized by the AH-64D, OH-58D, CH-47F, and UH/HH-60M.</p> <p>The ATCS is an Army Aviation Program to procure Alternative Communications (Alt Comms) A&B Kits to meet minimum acceptable near term communication requirements due to delays in the Joint Tactical Radio System (JTRS) program. Alt Comms B-Kits include the ARC-201D and the ARC-231 radio sets along with associated power amplifiers and mounts. A-Kit hardware and software is planned to be procured through the prime contractor for each platform.</p> <p>Military Flight Operations Quality Assurance (MFOQA) is the systematic collection and automated analysis of operational data from aircraft for use in continuous improvement of combat readiness in the areas of operation, training, maintenance and safety. MFOQA builds on a commercial aviation initiative which uses operational trend analyses of flight data to better identify hazards, increase operational efficiency and provide more effective risk management.</p> <p>Justification: FY10 base funding in the amount of \$28.8 million will procure DGNS AN/ASN-128D B-Kits, A-Kits, and installations for the UH-60A/L and CH-47D. The ASN-128D is required to meet directed SAASM security requirements and to provide a box-level IFR navigation capability. DGNS, Global Air Traffic Management (GATM) and JPALS programs are closely linked and have joint perspective/participation.</p> <p>FY10 base funding in the amount of \$18.6 million will procure AMPS upgrades to system software to support aviation fleet modernization programs and implementation of CAFRS Phase II. AMPS hardware (B-Kits) is being replaced on a 5-year cycle to maintain pace with technology. The start of the next cycle is in FY11.</p> <p>FY10 base funding in the amount of \$1.9 million will procure EGI programmatic, engineering and logistics support for aircraft integration efforts. GPS P3I, GATM, and JPALS programs are closely linked and have joint perspective/participation.</p> <p>FY10 base funding in the amount of \$73.2 million will procure IDM Redesign B Kits to mitigate parts obsolescence concerns and to provide a technology refresh to the IDM hardware. These B Kits support production line programs for the AH-64D, CH-47F, HH/UH-60M helicopters and OH-58D Safety Enhancement Program. FY10 funds are also required to complete IDM Software Block 3 and begin Software Block 4 modifications and integrate those modifications into AH-64D, CH-47F, OH-58D, and UH-60M. The IDM enhances Army Aviation's interoperability, lethality, and operational tempo by providing a common solution for fast and accurate data-burst communications via the TI and FS internet networks. The IDM provides a capability to communicate across the digital battlefield while also providing the flexibility to adapt to technology change.</p> <p>FY10 base funding in the amount of \$104.6 million will procure Alt Comms A-Kits and B-Kits for AH-64D, CH-47F, UH/HH-60M, LUH, Army Airborne Command and Control (A2C2S), UAS, and SOA. An Alt Comms suite of aviation radios comprises a standard configuration of non-developmental and commercially available off-the-shelf equipment. The standard configuration consists of 2 ARC-201D radios, an Improved Frequency Modulation (IFM) Power Amplifier (two IFM's for CH-47F), and a suite of ARC-231 sets. Additionally, FY10 funds modifications to crypto and satellite communications through ECPs.</p> <p>FY10 base funding in the amount of \$14.2 million will procure and install MFOQA Digital Source Collectors for Army rotary wing aircraft. This program is intended to provide users at all levels of the Army with the required information to conduct analyses and make decisions in the areas of operations, training, maintenance, and safety to ensure efficient fleet management, to reduce operations and support (O&S) costs and to improve operational readiness.</p> | | | |

| | | | | | | |
|---|----------------|--------------|---|---------|--|-------------------|
| Exhibit P-40M, Budget Item Justification Sheet | | | | | | Date: May 2009 |
| Appropriation / Budget Activity / Serial No: Aircraft Procurement, Army / 2 / Modification of aircraft | | | P-1 Item Nomenclature AIRBORNE AVIONICS (AA0700) | | | |
| Program Elements for Code B Items: | | | | Code: | Other Related Program Elements: PE 0604201A, SSN AA0704 | |
| Description | | Fiscal Years | | | | |
| OSIP No. | Classification | 2008 & PR | FY 2009 | FY 2010 | TC | Total |
| DGNS (AN/ASN-128B) P3I | | | | | | |
| OSIP | Oper/Log | 79.9 | 23.8 | 28.8 | 1.5 | 134.0 |
| Aviation Mission Planning System (AMPS) | | | | | | |
| 1-95-01-2185 | Oper/Log | 198.7 | 21.1 | 18.6 | 0.0 | 238.4 |
| Embedded GPS Inertial Navigation System (EGI) P3I | | | | | | |
| OSIP | Legislative | 26.5 | 1.7 | 1.9 | 0.0 | 30.1 |
| Improved Data Modem (IDM) | | | | | | |
| OSIP | Oper/Log | 433.1 | 48.8 | 73.2 | 0.0 | 555.1 |
| Aviation Tactical Communication Systems | | | | | | |
| OSIP | Operational | 159.0 | 64.3 | 104.6 | 0.0 | 327.9 |
| Mil Flight Operation Quality Assurance (MFOQA) | | | | | | |
| OSIP | | 16.9 | 14.8 | 14.2 | 0.0 | 45.9 |
| Totals | | 914.1 | 174.5 | 241.3 | 1.5 | 1331.4 |

INDIVIDUAL MODIFICATION

Date: May 2009

MODIFICATION TITLE: DGNS (AN/ASN-128B) P3I [MOD 1] OSIP

MODELS OF SYSTEM AFFECTED: UH-60A/L, CH-47D, HH-60A/L

DESCRIPTION / JUSTIFICATION:

The Doppler GPS Navigation System (DGNS) is one of the aviation systems required for Digitization of the Battlefield. The ASN-128D is required to meet directed SAASM security requirements and to provide a box-level IFR navigation capability. A P3I for the current ASN-128B/DGNS for the UH-60A/L, HH-60A/L, and CH-47D aircraft is updating to an ASN-128D. The AN/ASN-128D/DGNS will meet the regulatory requirements of civil airspace for the UH-60A/L, HH-60A/L, and CH-47D aircraft. A-Kit unit procurement and installation costs vary by platform.

FY10 base funding in the amount of \$28.8 million will procure DGNS AN/ASN-128D B-Kits, A-Kits, and installations for the UH-60A/L and CH-47D. DGNS, Global Air Traffic Management (GATM) and JPALS programs are closely linked and have joint perspective/participation.

DEVELOPMENT STATUS / MAJOR DEVELOPMENT MILESTONE(S):

Full Rate Production (FRP) contract awarded August 2005 for B-Kits. The B-Kit production leadtime is 12 months. The A-Kits have been developed and tested for the UH-60A/L and CH-47D. DGNS will be integrated onto the HH-60A/L in FY10.

Installation Schedule

| Pr Yr Totals | FY 2009 | | | | FY 2010 | | | | FY 2011 | | | | FY 2012 | | | | FY 2013 | | | | |
|-----------------|---------|----|----|----|---------|----|----|----|---------|----|----|----|---------|----|---|---|---------|---|---|---|--|
| | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 | |
| Inputs | 692 | 75 | 75 | 75 | 75 | 34 | 32 | 32 | 30 | 30 | 28 | 27 | 25 | | | | | | | | |
| Outputs | 617 | 75 | 75 | 75 | 75 | 75 | 32 | 32 | 32 | 32 | 30 | 28 | 27 | 25 | | | | | | | |

| 1 | 2 | 3 | 4 | FY 2014 | | | | FY 2015 | | | | FY 2016 | | | | FY 2017 | | | | To Complete | Totals |
|---------|---|---|---|---------|---|---|---|---------|---|---|---|---------|---|---|---|---------|---|---|---|----------------|--------|
| | | | | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 | | |
| Inputs | | | | | | | | | | | | | | | | | | | | | 1230 |
| Outputs | | | | | | | | | | | | | | | | | | | | | 1230 |

METHOD OF IMPLEMENTATION: On Site Log/Repair ADMINISTRATIVE LEADTIME: 6 months PRODUCTION LEADTIME: 6 months

Team Contract Dates: FY 2010 - Apr 10 FY 2011 - FY 2012 -
 Delivery Dates: FY 2010 - Oct 10 FY 2011 - FY 2012 -

INDIVIDUAL MODIFICATION

Date: May 2009

MODIFICATION TITLE (cont): DGNS (AN/ASN-128B) P3I [MOD 1] OSIP

FINANCIAL PLAN: (\$ in Millions)

| | FY 2008 and Prior | | 2009 | | 2010 | | TC | | Total | |
|--|----------------------|------|------|------|------|------|-----|-----|-------|-------|
| | Qty | \$ | Qty | \$ | Qty | \$ | Qty | \$ | Qty | \$ |
| | RDT&E | | | | | | | | | |
| Procurement | | | | | | | | | | |
| Kit Quantity - B-Kit | 524 | 26.6 | 235 | 12.6 | 252 | 16.8 | | | 1011 | 56.0 |
| B-Kit Nonrecurring | | 14.3 | | | | | | | | 14.3 |
| Kit Quantity A-Kit | 992 | 12.9 | 128 | 2.4 | 110 | 2.1 | | | 1230 | 17.4 |
| Aircraft Integration - Nonrecurring | | 4.3 | | | | 1.3 | | | | 5.6 |
| ECPs | | 1.3 | | 1.0 | | 1.0 | | | | 3.3 |
| Data | | 1.3 | | 0.9 | | 0.7 | | | | 2.9 |
| Training Equipment | | 0.7 | | 0.5 | | 0.7 | | | | 1.9 |
| Systems Engineering | | 8.5 | | 2.4 | | 2.3 | | | | 13.2 |
| Other - PM Admin | | 3.7 | | 2.0 | | 2.1 | | | | 7.8 |
| Other | | | | | | | | | | |
| Installation of Hardware | | | | | | | | | | |
| FY 2007 & Prior Equip -- Kits | 692 | 6.3 | | | | | | | 692 | 6.3 |
| FY 2008 -- Kits | | | 300 | 2.0 | | | | | 300 | 2.0 |
| FY 2009 Equip -- Kits | | | | | 128 | 1.8 | | | 128 | 1.8 |
| FY 2010 Equip -- Kits | | | | | | | 110 | 1.5 | 110 | 1.5 |
| FY 2011 Equip -- Kits | | | | | | | | | | |
| FY 2012 Equip -- Kits | | | | | | | | | | |
| FY 2013 Equip -- Kits | | | | | | | | | | |
| FY 2014 Equip -- Kits | | | | | | | | | | |
| Total Installment | 692 | 6.3 | 300 | 2.0 | 128 | 1.8 | 110 | 1.5 | 1230 | 11.6 |
| Total Procurement Cost | | 79.9 | | 23.8 | | 28.8 | | 1.5 | | 134.0 |

INDIVIDUAL MODIFICATION Date: May 2009

MODIFICATION TITLE: Aviation Mission Planning System (AMPS) [MOD 2] 1-95-01-2185

MODELS OF SYSTEM AFFECTED: AH-64A/D, CH-47D/F, OH-58D, UH-60A/L/M/Q, HH-60L/M, and UASs

DESCRIPTION / JUSTIFICATION:
 The AMPS is used to automate Aviation mission planning tasks. The AMPS supports tactical command and control, mission planning, and mission management. It interfaces with the ABCS components, which furnish the aviation commander with continuous situational awareness, allowing the commander to rapidly adjust mission plans. This system generates mission data in either hard copy or electronic formats. The electronic formats are loaded onto the aircraft platforms, initializing the communication, navigation, and situational awareness systems on the modernized fleet aircraft. Since the airframes have the data receptacles/busses required to interface with AMPS, there is no installation cost/schedule. The system functionality is upgraded through the application of Engineering Change Proposals (ECPs) (primarily software) in a spiral acquisition program. AMPS is fielded from Army through Aviation Company, centered in the Combat Aviation Brigade.

FY10 base funding in the amount of \$18.6M will procure AMPS upgrades to system software to support aviation fleet modernization programs and implementation of CAFRS Phase II. AMPS hardware (B-Kits) is being replaced on a 5-year cycle to maintain pace with technology. The start of the next cycle is in FY11.

DEVELOPMENT STATUS / MAJOR DEVELOPMENT MILESTONE(S):
 Operational Requirements Document Change 1 was approved in April 1998. The AMPS was approved to enter into production through a Milestone III decision in July 2000. The AMPS initial hardware has been fielded and will begin the next hardware technology refresh in FY11. Software is being modified concurrently with Aviation fleet modernization programs. The AMPS software will be upgraded to include Joint Mission Planning Software (JMPS) improved components. This upgrade is funded with RTDE and will complete in FY12.

Installation Schedule

| | Pr Yr Totals | FY 2009 | | | | FY 2010 | | | | FY 2011 | | | | FY 2012 | | | | FY 2013 | | | | |
|---------|-----------------|---------|---|---|---|---------|---|---|---|---------|---|---|---|---------|---|---|---|---------|---|---|---|--|
| | | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 | |
| Inputs | | | | | | | | | | | | | | | | | | | | | | |
| Outputs | | | | | | | | | | | | | | | | | | | | | | |

| | FY 2014 | | | | FY 2015 | | | | FY 2016 | | | | FY 2017 | | | | To Complete | Totals | | | | |
|---------|---------|---|---|---|---------|---|---|---|---------|---|---|---|---------|---|---|---|----------------|--------|--|--|--|--|
| | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 | | | | | | |
| Inputs | | | | | | | | | | | | | | | | | | | | | | |
| Outputs | | | | | | | | | | | | | | | | | | | | | | |

METHOD OF IMPLEMENTATION: N/A **ADMINISTRATIVE LEADTIME:** 0 months **PRODUCTION LEADTIME:** 0 months

Contract Dates: FY 2010 - FY 2011 - FY 2012 -

Delivery Dates: FY 2010 - FY 2011 - FY 2012 -

INDIVIDUAL MODIFICATION

Date: May 2009

MODIFICATION TITLE (cont): Aviation Mission Planning System (AMPS) [MOD 2] 1-95-01-2185

FINANCIAL PLAN: (\$ in Millions)

| | FY 2008 and Prior | | 2009 | | 2010 | | TC | | Total | |
|--------------------------------------|----------------------|-------|------|------|------|------|-----|-----|-------|-------|
| | Qty | \$ | Qty | \$ | Qty | \$ | Qty | \$ | Qty | \$ |
| | RDT&E | | | | | | | | | |
| Procurement | | | | | | | | | | |
| Kit Quantity-B Kit (Computer) | 2411 | 31.3 | 128 | 1.1 | | | | | 2539 | 32.4 |
| Kit Quantity- B Kit (Upgrades) | 1392 | 6.1 | | | | | | | 1392 | 6.1 |
| Kit Quantity -B Kit (Peripherals) | | 17.2 | | | | | | | | 17.2 |
| B Kit (Nonrecurring) | | 10.3 | | | | 0.4 | | | | 10.7 |
| ECPs | | 92.6 | | 11.5 | | 9.1 | | | | 113.2 |
| Systems Engineering | | 4.6 | | 1.7 | | 1.3 | | | | 7.6 |
| System Test & Eval | | 4.1 | | 0.7 | | 1.0 | | | | 5.8 |
| Fielding/Training | | 22.5 | | 5.1 | | 5.6 | | | | 33.2 |
| Other - PM Admin | | 10.0 | | 1.0 | | 1.2 | | | | 12.2 |
| Installation of Hardware | | | | | | | | | | |
| FY 2007 & Prior Equip -- Kits | | | | | | | | | | |
| FY 2008 -- Kits | | | | | | | | | | |
| FY 2009 Equip -- Kits | | | | | | | | | | |
| FY 2010 Equip -- Kits | | | | | | | | | | |
| FY 2011 Equip -- Kits | | | | | | | | | | |
| FY 2012 Equip -- Kits | | | | | | | | | | |
| FY 2013 Equip -- Kits | | | | | | | | | | |
| FY 2014 Equip -- Kits | | | | | | | | | | |
| Total Installment | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 |
| Total Procurement Cost | | 198.7 | | 21.1 | | 18.6 | | 0.0 | | 238.4 |

INDIVIDUAL MODIFICATION

Date: May 2009

MODIFICATION TITLE: Embedded GPS Inertial Navigation System (EGI) P3I [MOD 3] OSIP

MODELS OF SYSTEM AFFECTED: SOA, UH/HH-60M, CH-47F, AH-64D Block III

DESCRIPTION / JUSTIFICATION:

Embedded GPS/INS (Global Positioning System/Inertial Navigation Systems) (EGI) is one of the aviation systems required for Digitization of the Battlefield. Fielding of the GPS EGI P3I continues. This P3I modification provides enhanced security with the directed SAASM and GPS IFR navigation capability, in accordance with civil airspace regulatory requirements. Since the EGI P3I configuration will be applied to UH/HH-60M, CH-47F and AH-64D Block III during RECAP, the platforms funded integration non-recurring and recurring costs and this budget line funded Special Operations Aviation (SOA). The next modification to the EGI will be to include M-Code security requirements into the currently fielded equipment. The additional B-kits beginning in FY14 are to incorporate the M-code changes.

FY10 base funding in the amount of \$1.9 million will procure the system engineering, program management, and other non-recurring costs required to support platform requirements funded in those aircraft procurement lines. GPS P3I, GATM, and JPALS programs are closely linked and have joint perspective/participation.

DEVELOPMENT STATUS / MAJOR DEVELOPMENT MILESTONE(S):

The EGI B-kits being procured in FY14 and out are to incorporate M-code into the EGI.

Installation Schedule

| Pr Yr Totals | FY 2009 | | | | FY 2010 | | | | FY 2011 | | | | FY 2012 | | | | FY 2013 | | | |
|-----------------|---------|---|---|---|---------|---|---|---|---------|---|---|---|---------|---|---|---|---------|---|---|---|
| | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 |
| Inputs | | | | | | | | | | | | | | | | | | | | |
| Outputs | | | | | | | | | | | | | | | | | | | | |

| 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 | To Complete | Totals | |
|---------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----------------|--------|---------|
| | | | | | | | | | | | | | | | | | | FY 2014 |
| Inputs | | | | | | | | | | | | | | | | | | |
| Outputs | | | | | | | | | | | | | | | | | | |

METHOD OF IMPLEMENTATION:

ADMINISTRATIVE LEADTIME:

0 months

PRODUCTION LEADTIME:

0 months

Contract Dates:

FY 2010 -

FY 2011 -

FY 2012 -

Delivery Dates:

FY 2010 -

FY 2011 -

FY 2012 -

INDIVIDUAL MODIFICATION

Date: May 2009

MODIFICATION TITLE (cont): Embedded GPS Inertial Navigation System (EGI) P31 [MOD 3] OSIP

FINANCIAL PLAN: (\$ in Millions)

| | FY 2008 and Prior | | 2009 | | 2010 | | TC | | Total | |
|--|----------------------|------|------|-----|------|-----|-----|-----|-------|------|
| | Qty | \$ | Qty | \$ | Qty | \$ | Qty | \$ | Qty | \$ |
| | RDT&E | | | | | | | | | |
| Procurement | | | | | | | | | | |
| Kit Quantity - B-Kit | 142 | 11.1 | | | | | | | 142 | 11.1 |
| M Code Upgrade B-Kit | | | | | | | | | | |
| B-Kit Nonrecurring | | 4.8 | | | | | | | | 4.8 |
| Aircraft Integration (NonRecurring) | | 2.8 | | | | | | | | 2.8 |
| ECPs | | 1.1 | | 0.4 | | 0.3 | | | | 1.8 |
| Data | | 0.9 | | 0.2 | | 0.1 | | | | 1.2 |
| Training Equipment | | 1.7 | | 0.2 | | 0.3 | | | | 2.2 |
| Systems Engineering | | 2.5 | | 0.6 | | 0.7 | | | | 3.8 |
| Other - PM Admin | | 1.6 | | 0.3 | | 0.5 | | | | 2.4 |
| Installation of Hardware | | | | | | | | | | |
| FY 2007 & Prior Equip -- Kits | | | | | | | | | | |
| FY 2008 -- Kits | | | | | | | | | | |
| FY 2009 Equip -- Kits | | | | | | | | | | |
| FY 2010 Equip -- Kits | | | | | | | | | | |
| FY 2011 Equip -- Kits | | | | | | | | | | |
| FY 2012 Equip -- Kits | | | | | | | | | | |
| FY 2013 Equip -- Kits | | | | | | | | | | |
| FY 2014 Equip -- Kits | | | | | | | | | | |
| Total Installment | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 |
| Total Procurement Cost | | 26.5 | | 1.7 | | 1.9 | | 0.0 | | 30.1 |

INDIVIDUAL MODIFICATION

Date: May 2009

MODIFICATION TITLE: Improved Data Modem (IDM) [MOD 4] OSIP

MODELS OF SYSTEM AFFECTED: AH-64D, OH-58D, CH-47F, UH/HH-60M

DESCRIPTION / JUSTIFICATION:

The IDM is the common solution for digitizing Army Aviation. It performs as an internet controller and gateway to Tactical Internet (TI) and Fire Support (FS) internet for Army aircraft. This hardware/software solution also provides a flexible, software driven digital messaging system that is interoperable with existing Army and Joint forces battlefield operating systems. The IDM provides Situational Awareness and Joint Variable Message Format messages capability to the cockpit. The IDM is currently utilized by the AH-64D, OH-58D, CH-47F, and UH/HH-60M.

FY10 base funding in the amount of \$73.2 million will procure IDM Redesign B Kits to mitigate parts obsolescence concerns and to provide a technology refresh to the IDM hardware. These B Kits support production line incorporation for the AH-64D, CH-47F, HH/UH-60M helicopters and the OH-58D Safety Enhancement Program. FY10 funds are also required to complete IDM Software Block 3 and begin Software Block 4 modifications and integrate those modifications into AH-64D, CH-47F, OH-58D, and UH-60M. The IDM enhances Army Aviation's interoperability, lethality, and operational tempo by providing a common solution for fast and accurate data-burst communications via the TI and FS internet networks. The IDM provides a capability to communicate across the digital battlefield while also providing the flexibility to adapt to technology change.

DEVELOPMENT STATUS / MAJOR DEVELOPMENT MILESTONE(S):

A hardware upgrade of the IDM to mitigate parts obsolescence issues and to refresh technology will be completed in FY10 to support B-kit procurements in FY10 and out. IDM OSA development and test will be completed in the 1st Quarter FY12.

Installation Schedule

| Pr Yr Totals | FY 2009 | | | | FY 2010 | | | | FY 2011 | | | | FY 2012 | | | | FY 2013 | | | |
|-----------------|---------|---|---|---|---------|---|---|---|---------|---|---|---|---------|---|---|---|---------|---|---|---|
| | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 |
| Inputs | | | | | | | | | | | | | | | | | | | | |
| Outputs | | | | | | | | | | | | | | | | | | | | |

| 1 | FY 2014 | | | FY 2015 | | | FY 2016 | | | FY 2017 | | | To Complete | Totals |
|---------|---------|---|---|---------|---|---|---------|---|---|---------|---|---|----------------|--------|
| | 2 | 3 | 4 | 1 | 2 | 3 | 1 | 2 | 3 | 1 | 2 | 3 | | |
| Inputs | | | | | | | | | | | | | | |
| Outputs | | | | | | | | | | | | | | |

METHOD OF IMPLEMENTATION:

ADMINISTRATIVE LEADTIME:

0 months

PRODUCTION LEADTIME:

0 months

Contract Dates:

FY 2010 -

FY 2011 -

FY 2012 -

Delivery Dates:

FY 2010 -

FY 2011 -

FY 2012 -

INDIVIDUAL MODIFICATION

Date: May 2009

MODIFICATION TITLE (cont): Improved Data Modem (IDM) [MOD 4] OSIP

FINANCIAL PLAN: (\$ in Millions)

| | FY 2008 and Prior | | 2009 | | 2010 | | TC | | Total | |
|--------------------------------------|----------------------|-------|------|------|------|------|-----|-----|-------|-------|
| | Qty | \$ | Qty | \$ | Qty | \$ | Qty | \$ | Qty | \$ |
| | RDT&E | | | | | | | | | |
| Procurement | | | | | | | | | | |
| Kit Quantity - B -Kits(IDM) | 1416 | 42.5 | | | 163 | 6.1 | | | 1579 | 48.6 |
| Kit Quantity - B -Kits (IDM Mods) | 206 | 4.5 | | | 195 | 7.3 | | | 401 | 11.8 |
| Kit Quantity - B -Kits(IDM OSA) | | | | | | | | | | |
| B-Kit NonRecurring | | 99.6 | | 10.1 | | 8.2 | | | | 117.9 |
| Kit Quantity- A-Kits | 240 | 11.9 | | | | | | | 240 | 11.9 |
| Aircraft Integration | | 212.3 | | 28.2 | | 30.3 | | | | 270.8 |
| ECP (B-Kit HW) | | 2.4 | | 0.4 | | 3.1 | | | | 5.9 |
| ECP (B-Kit SW) | | 13.7 | | 3.5 | | 7.0 | | | | 24.2 |
| Data | | 4.4 | | 0.2 | | 4.0 | | | | 8.6 |
| Systems Engineering | | 10.4 | | 3.3 | | 3.6 | | | | 17.3 |
| Systems Test and Evaluation | | 4.0 | | 0.3 | | 0.8 | | | | 5.1 |
| Fielding/Training | | 8.3 | | 1.3 | | 1.3 | | | | 10.9 |
| Other-PM Admin | | 19.1 | | 1.5 | | 1.5 | | | | 22.1 |
| Installation of Hardware | | | | | | | | | | |
| FY 2007 & Prior Equip -- Kits | | | | | | | | | | |
| FY 2008 -- Kits | | | | | | | | | | |
| FY 2009 Equip -- Kits | | | | | | | | | | |
| FY 2010 Equip -- Kits | | | | | | | | | | |
| FY 2011 Equip -- Kits | | | | | | | | | | |
| FY 2012 Equip -- Kits | | | | | | | | | | |
| FY 2013 Equip -- Kits | | | | | | | | | | |
| FY 2014 Equip -- Kits | | | | | | | | | | |
| Total Installment | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 |
| Total Procurement Cost | | 433.1 | | 48.8 | | 73.2 | | 0.0 | | 555.1 |

INDIVIDUAL MODIFICATION

Date: May 2009

MODIFICATION TITLE: Aviation Tactical Communication Systems [MOD 5] OSIP

MODELS OF SYSTEM AFFECTED: AH-64D, CH-47F, UH/HH-60M, Special Operations Aircraft (SOA), LUH-72A, UAS

DESCRIPTION / JUSTIFICATION:

Aviation Tactical Communication Systems (ATCS) is comprised of Alternate Communications (Alt Comms) and installation of Joint Tactical Radio System (JTRS). Alt Comms procures A-Kits and B-Kits to meet minimum acceptable near-term communication requirements as defined by the U.S. Army Aviation Center of Excellence (USAACE) due to delays in the JTRS program. Alt Comms B-Kits include the ARC-201D and the ARC-231 radio sets along with associated power amplifiers and mounts. B-Kit hardware is procured through existing Communications Electronics Command (CECOM) contracts. A-Kit hardware and software is planned to be procured through the prime contractor for each platform using funds in this budget line and installed on the production line. B-kits are procured prior to A-kits due to platform and radio lead times. A-Kit configuration and radio suite varies by platform. B-Kit unit costs vary based on platform configuration. No installation schedule due to A and B-Kits being installed on the production line.

FY10 base funding in the amount of \$104.6 million will procure Alt Comms A-Kits and B-Kits for AH-64D, CH-47F, UH/HH-60M, LUH, and SOA. An Alt Comms suite of aviation radios comprises a standard configuration of non-developmental and commercially available off-the-shelf equipment. The standard configuration consists of 2 ARC-201D radios, an Improved Frequency Modulation (IFM) Power Amplifier (two IFM's for CH-47F), and a suite of ARC-231 sets. Additionally, FY10 base funding provides for ARC-231 modifications to crypto and satellite communications through ECPs. Beginning in FY10, ARC-231 radios for LUH-72A, and UAS will be procured in this budget line.

DEVELOPMENT STATUS / MAJOR DEVELOPMENT MILESTONE(S):

Alt Comms is a non-developmental program in the production and deployment phase. JTRS A-Kit development, integration, and test on Apache Block III will be completed in FY12. JTRS A-Kit procurement begins in FY13 for production incorporation in Apache Block III Lot 4 aircraft.

Installation Schedule

| Pr Yr Totals | FY 2009 | | | | FY 2010 | | | | FY 2011 | | | | FY 2012 | | | | FY 2013 | | | |
|-----------------|---------|---|---|---|---------|---|---|---|---------|---|---|---|---------|---|---|---|---------|---|---|---|
| | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 |
| Inputs | | | | | | | | | | | | | | | | | | | | |
| Outputs | | | | | | | | | | | | | | | | | | | | |

| 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 | To Complete | Totals | |
|---------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----------------|--------|---------|
| | | | | | | | | | | | | | | | | | | FY 2014 |
| Inputs | | | | | | | | | | | | | | | | | | |
| Outputs | | | | | | | | | | | | | | | | | | |

METHOD OF IMPLEMENTATION:

ADMINISTRATIVE LEADTIME:

0 months

PRODUCTION LEADTIME:

0 months

Contract Dates:

FY 2010 -

FY 2011 -

FY 2012 -

Delivery Dates:

FY 2010 -

FY 2011 -

FY 2012 -

INDIVIDUAL MODIFICATION

Date: May 2009

MODIFICATION TITLE (cont): Aviation Tactical Communication Systems [MOD 5] OSIP

FINANCIAL PLAN: (\$ in Millions)

| | FY 2008 and Prior | | 2009 | | 2010 | | TC | | Total | |
|------------------------------------|----------------------|-------|------|------|------|-------|-----|-----|-------|-------|
| | Qty | \$ | Qty | \$ | Qty | \$ | Qty | \$ | Qty | \$ |
| | RD&E | | | | | | | | | |
| Procurement | | | | | | | | | | |
| Kit Quantity - B-Kit (ARC-231) | 515 | 47.5 | 149 | 15.8 | 241 | 20.9 | | | 905 | 84.2 |
| Kit Quantity - B-Kit (ARC-201D) | 751 | 24.5 | 198 | 1.7 | 168 | 6.2 | | | 1117 | 32.4 |
| Kit Quantity - B-Kit (IFM) | 470 | 8.9 | 101 | 2.3 | 122 | 2.9 | | | 693 | 14.1 |
| Kit Quantity - A-Kit | 137 | 18.7 | 338 | 11.2 | 115 | 13.1 | | | 590 | 43.0 |
| ECP/Non-Recurring | | 33.8 | | 22.4 | | 47.4 | | | | 103.6 |
| System Engineering | | 12.4 | | 3.3 | | 3.3 | | | | 19.0 |
| System Test & Evaluation | | 3.5 | | 1.8 | | 2.0 | | | | 7.3 |
| Fielding/Training | | 1.0 | | 2.4 | | 3.4 | | | | 6.8 |
| Other - PM Admin | | 8.7 | | 3.4 | | 5.4 | | | | 17.5 |
| Installation of Hardware | | | | | | | | | | |
| FY 2007 & Prior Equip -- Kits | | | | | | | | | | |
| FY 2008 -- Kits | | | | | | | | | | |
| FY 2009 Equip -- Kits | | | | | | | | | | |
| FY 2010 Equip -- Kits | | | | | | | | | | |
| FY 2011 Equip -- Kits | | | | | | | | | | |
| FY 2012 Equip -- Kits | | | | | | | | | | |
| FY 2013 Equip -- Kits | | | | | | | | | | |
| FY 2014 Equip -- Kits | | | | | | | | | | |
| Total Installment | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 |
| Total Procurement Cost | | 159.0 | | 64.3 | | 104.6 | | 0.0 | | 327.9 |

INDIVIDUAL MODIFICATION

Date: May 2009

MODIFICATION TITLE: Mil Flight Operation Quality Assurance (MFOQA) [MOD 6] OSIP

MODELS OF SYSTEM AFFECTED: AH-64D, CH-47F, UH-60A/L, LUH, HH-60A

DESCRIPTION / JUSTIFICATION:
 Military Flight Operations Quality Assurance (MFOQA) is the systematic collection and automated analysis of operational data from aircraft for use in continuous improvement of combat readiness in the areas of operation, training, maintenance and safety. MFOQA builds on a commercial aviation initiative which uses operational trend analyses of flight data to better identify hazards, increase operational efficiency and provide more effective risk management. Unit costs vary by aircraft platform.

DEVELOPMENT STATUS / MAJOR DEVELOPMENT MILESTONE(S):
 MFOQA is a non-developmental program and is OSD directed to equip rotary wing aircraft with diagnostic and prognostic systems.

Installation Schedule

| Pr Yr | FY 2009 | | | | FY 2010 | | | | FY 2011 | | | | FY 2012 | | | | FY 2013 | | | |
|---------|---------|---|---|---|---------|---|---|---|---------|---|---|---|---------|---|---|---|---------|---|---|---|
| | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 |
| Totals | | | | | | | | | | | | | | | | | | | | |
| Inputs | | | | | | | | | | | | | | | | | | | | |
| Outputs | | | | | | | | | | | | | | | | | | | | |

| Pr Yr | FY 2014 | | | | FY 2015 | | | | FY 2016 | | | | FY 2017 | | | | To Complete | Totals |
|---------|---------|---|---|---|---------|---|---|---|---------|---|---|---|---------|---|---|---|-------------|--------|
| | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 | | |
| Inputs | | | | | | | | | | | | | | | | | | |
| Outputs | | | | | | | | | | | | | | | | | | |

METHOD OF IMPLEMENTATION: OLR Team ADMINISTRATIVE LEADTIME: 0 months PRODUCTION LEADTIME: 0 months
 Contract Dates: FY 2010 - FY 2011 - FY 2012 -
 Delivery Dates: FY 2010 - FY 2011 - FY 2012 -

INDIVIDUAL MODIFICATION

Date: May 2009

MODIFICATION TITLE (cont): Mil Flight Operation Quality Assurance (MFOQA) [MOD 6] OSIP

FINANCIAL PLAN: (\$ in Millions)

| | FY 2008 and Prior | | 2009 | | 2010 | | TC | | Total | |
|---------------------------------|----------------------|------|------|------|------|------|-----|-----|-------|------|
| | Qty | \$ | Qty | \$ | Qty | \$ | Qty | \$ | Qty | \$ |
| | RDT&E | | | | | | | | | |
| Procurement | | | | | | | | | | |
| Kit Quantity B-Kits | 80 | 6.5 | 12 | 0.5 | 12 | 0.5 | | | 104 | 7.5 |
| Kit Quantity A-Kits | 80 | 4.3 | 12 | 0.5 | 12 | 0.5 | | | 104 | 5.3 |
| Other-PM Admin | | 3.7 | | 3.6 | | 3.0 | | | | 10.3 |
| System Engineering | | | | 9.2 | | 9.2 | | | | 18.4 |
| Installation of Hardware | | | | | | | | | | |
| FY 2007 & Prior Equip -- Kits | | | | | | | | | | |
| FY 2008 -- Kits | 80 | 2.4 | | | | | | | 80 | 2.4 |
| FY 2009 Equip -- Kits | | | 12 | 1.0 | | | | | 12 | 1.0 |
| FY 2010 Equip -- Kits | | | | | 12 | 1.0 | | | 12 | 1.0 |
| FY 2011 Equip -- Kits | | | | | | | | | | |
| FY 2012 Equip -- Kits | | | | | | | | | | |
| FY 2013 Equip -- Kits | | | | | | | | | | |
| FY 2014 Equip -- Kits | | | | | | | | | | |
| TC Equip- Kits | | | | | | | | | | |
| Total Installment | 80 | 2.4 | 12 | 1.0 | 12 | 1.0 | 0 | 0.0 | 104 | 4.4 |
| Total Procurement Cost | | 16.9 | | 14.8 | | 14.2 | | 0.0 | | 45.9 |

| | |
|--|----------------|
| Exhibit P-40, Budget Item Justification Sheet | Date: May 2009 |
|--|----------------|

| | |
|---|---|
| Appropriation / Budget Activity / Serial No: Aircraft Procurement, Army / 2 / Modification of aircraft | P-1 Item Nomenclature GATM Rollup (AA0711) |
|---|---|

| | | |
|------------------------------------|-------|---------------------------------|
| Program Elements for Code B Items: | Code: | Other Related Program Elements: |
|------------------------------------|-------|---------------------------------|

| | Prior Years | FY 2008 | FY 2009 | FY 2010 | To Complete | Total Prog |
|------------------------|-------------|---------|---------|---------|-------------|------------|
| Proc Qty | | | | | | |
| Gross Cost | 248.8 | 58.4 | 79.0 | 103.1 | | 489.4 |
| Less PY Adv Proc | | | | | | |
| Plus CY Adv Proc | | | | | | |
| Net Proc P1 | 248.8 | 58.4 | 79.0 | 103.1 | | 489.4 |
| Initial Spares | | | | | | |
| Total Proc Cost | 248.8 | 58.4 | 79.0 | 103.1 | | 489.4 |
| Flyaway U/C | | | | | | |
| Weapon System Proc U/C | | | | | | |

Description:
 This budget line supports procurement of Global Air Traffic Management equipment for both Fixed Wing (FW) and Rotary Wing (RW) aircraft.

| Exhibit P-5, Weapon ACFT Cost Analysis | | Appropriation/Budget Activity/Serial No: Aircraft Procurement, Army / 2 / Modification of aircraft | | | P-1 Line Item Nomenclature: GATM Rollup (AA0711) | | | Weapon System Type: | | Date: May 2009 | |
|---|--|---|--------------|-------|---|--------------|-------|---------------------|---------------|-------------------|-----------|
| ACFT Cost Elements | | ID CD | FY 08 | | | FY 09 | | | FY 10 | | |
| | | | Total Cost | Qty | Unit Cost | Total Cost | Qty | Unit Cost | Total Cost | Qty | Unit Cost |
| | | | \$000 | Units | \$000 | \$000 | Units | \$000 | \$000 | Units | \$000 |
| Fixed Wing Aircraft (AA0703) | | | 9494 | | | 8567 | | | 13196 | | |
| Rotary Wing Aircraft (AA0704) | | | 48943 | | | 70422 | | | 89946 | | |
| Total: | | | 58437 | | | 78989 | | | 103142 | | |

| | |
|--|----------------|
| Exhibit P-40, Budget Item Justification Sheet | Date: May 2009 |
|--|----------------|

| | |
|---|--|
| Appropriation / Budget Activity / Serial No: Aircraft Procurement, Army / 2 / Modification of aircraft | P-1 Item Nomenclature GATM - Fixed Wing Aircraft (AA0703) |
|---|--|

| | | |
|------------------------------------|-------|---------------------------------|
| Program Elements for Code B Items: | Code: | Other Related Program Elements: |
|------------------------------------|-------|---------------------------------|

| | Prior Years | FY 2008 | FY 2009 | FY 2010 | To Complete | Total Prog |
|------------------------|-------------|---------|---------|---------|-------------|------------|
| Proc Qty | | | | | | |
| Gross Cost | 118.5 | 9.5 | 8.6 | 13.2 | | 149.7 |
| Less PY Adv Proc | | | | | | |
| Plus CY Adv Proc | | | | | | |
| Net Proc P1 | 118.5 | 9.5 | 8.6 | 13.2 | | 149.7 |
| Initial Spares | | | | | | |
| Total Proc Cost | 118.5 | 9.5 | 8.6 | 13.2 | | 149.7 |
| Flyaway U/C | | | | | | |
| Weapon System Proc U/C | | | | | | |

Description:
Global Air Traffic Management (GATM) is the military equivalent of the International Civil Aviation architecture known as Communications, Navigation Surveillance and Air Traffic Management (CNS/ATM) programs. Current ground based navigation aids will be phased out of service as the world transitions to digital, data (non-voice), and space based navigation systems. Military aircraft will face some level (altitude and location dependent) of flight restrictions if not GATM equipped. GATM requirements cannot be met with a single piece of avionics equipment. Meeting worldwide GATM requirements will entail the upgrading of some existing avionics and the procurement of new systems for the fixed wing fleet.

Justification:
FY 10 Base Funding in the amount of \$13.196 million will procure GATM equipment for Fixed Wing aircraft. Fixed Wing aircraft were purchased with avionics available at the time of production. However, for the Army's Fixed Wing aircraft to remain current and have unrestricted access to the rapidly changing Air Traffic Management airspace, new communication, navigation and surveillance equipment will be needed to meet GATM requirements. Unless equipped, the Army's senior leadership will be limited in conducting their worldwide command and control missions because of potential airspace exclusion or routing delays. In addition, new communication and navigation systems will enhance reliability and maintainability by employing commercial systems thereby improving aircraft availability for mission requirements.

| | |
|---|----------------|
| Exhibit P-40M, Budget Item Justification Sheet | Date: May 2009 |
|---|----------------|

| | |
|---|--|
| Appropriation / Budget Activity / Serial No: Aircraft Procurement, Army / 2 / Modification of aircraft | P-1 Item Nomenclature GATM - Fixed Wing Aircraft (AA0703) |
|---|--|

| | | |
|------------------------------------|-------|---------------------------------|
| Program Elements for Code B Items: | Code: | Other Related Program Elements: |
|------------------------------------|-------|---------------------------------|

| Description | | Fiscal Years | | | | |
|------------------------------------|----------------|--------------|---------|---------|-----|-------|
| OSIP No. | Classification | 2008 & PR | FY 2009 | FY 2010 | TC | Total |
| Global Air Traffic Management - FW | | | | | | |
| GATM-FW | Operational | 128.0 | 8.6 | 13.2 | 0.0 | 149.8 |
| Totals | | 128.0 | 8.6 | 13.2 | 0.0 | 149.8 |

INDIVIDUAL MODIFICATION

Date: May 2009

MODIFICATION TITLE: Global Air Traffic Management - FW [MOD 1] GATM-FW

MODELS OF SYSTEM AFFECTED: All series Army fixed wing aircraft:C-31, 12, 23, 26, 37, 20, 208, UV-18, RC-12, UC-35, EO-5,CE-182

DESCRIPTION / JUSTIFICATION:

This effort will update and modernize communication, navigation, and surveillance equipment to current international requirements, allow worldwide deployments and continued safe operations. Failure to modify the Fixed Wing fleet will prevent worldwide deployability.

As currently equipped, the aircraft are not suitable for worldwide deployment nor capable of using modern navigation and air traffic control capabilities. A variety of equipment is required by GATM including: datalink technology, satellite communication (SATCOM), communication management units, Electronic Flight Information System, surveillance equipment, radios, navigation equipment and multi-mode receivers. GATM requirements are evolving and require additional systems in the near future. The kit quantities reflected on the next page represent a wide variety of avionics kits with different mixes each fiscal year. Kit configuration varies by aircraft. Consequently, kit unit and installation costs vary significantly from year to year.

DEVELOPMENT STATUS / MAJOR DEVELOPMENT MILESTONE(S):

Development is not required for avionics system cockpit upgrades.

Installation Schedule

| | Pr Yr Totals | FY 2009 | | | | FY 2010 | | | | FY 2011 | | | | FY 2012 | | | | FY 2013 | | | |
|---------|-----------------|---------|---|---|---|---------|---|---|---|---------|---|---|---|---------|---|---|---|---------|---|---|---|
| | | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 |
| Inputs | 166 | | | | 2 | 1 | 1 | | | | | | | | | | | | | | |
| Outputs | 147 | 19 | | | | 2 | 1 | | 1 | | | | | | | | | | | | |

| | FY 2014 | | | | FY 2015 | | | | FY 2016 | | | | FY 2017 | | | | To Complete | Totals |
|---------|---------|---|---|---|---------|---|---|---|---------|---|---|---|---------|---|---|---|----------------|--------|
| | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 | | |
| Inputs | | | | | | | | | | | | | | | | | | 170 |
| Outputs | | | | | | | | | | | | | | | | | | 170 |

METHOD OF IMPLEMENTATION: Contract **ADMINISTRATIVE LEADTIME:** 2 months **PRODUCTION LEADTIME:** 6 months
 Contract Dates: FY 2010 - Dec 09 FY 2011 - FY 2012 -
 Delivery Dates: FY 2010 - May 10 FY 2011 - FY 2012 -

INDIVIDUAL MODIFICATION

Date: May 2009

MODIFICATION TITLE (cont): Global Air Traffic Management - FW [MOD 1] GATM-FW

FINANCIAL PLAN: (\$ in Millions)

| | FY 2008 and Prior | | 2009 | | 2010 | | TC | | Total | |
|---------------------------------|----------------------|-------|------|-----|------|------|-----|-----|-------|-------|
| | Qty | \$ | Qty | \$ | Qty | \$ | Qty | \$ | Qty | \$ |
| | RDT&E | | | | | | | | | |
| Procurement | | | | | | | | | | |
| Installation Kits | 166 | 83.6 | 2 | 6.0 | 2 | 9.1 | | | 170 | 98.7 |
| Kit Quantity | | | | | | | | | | |
| Installation Kits, Nonrecurring | | | | | | | | | | |
| Equipment | | | | | | | | | | |
| Equipment, Nonrecurring | | | | | | | | | | |
| Engineering Change Orders | | | | | | | | | | |
| Data | | 0.6 | | 0.1 | | 0.1 | | | | 0.8 |
| Training Equipment | | | | | | | | | | |
| Support Equipment | | | | | | | | | | |
| Other | | | | | | | | | | |
| Interim Contractor Support | | | | | | | | | | |
| Installation of Hardware | | | | | | | | | | |
| FY 2008 & Prior Equip -- Kits | 166 | 43.8 | | | | | | | 166 | 43.8 |
| FY 2009 -- Kits | | | 2 | 2.5 | | | | | 2 | 2.5 |
| FY 2010 Equip -- Kits | | | | | 2 | 4.0 | | | 2 | 4.0 |
| FY 2011 Equip -- Kits | | | | | | | | | | |
| FY 2012 Equip -- Kits | | | | | | | | | | |
| FY 2013 Equip -- Kits | | | | | | | | | | |
| FY 2014 Equip -- Kits | | | | | | | | | | |
| FY 2015 Equip -- Kits | | | | | | | | | | |
| TC Equip- Kits | | | | | | | | | | |
| Total Installment | 166 | 43.8 | 2 | 2.5 | 2 | 4.0 | 0 | 0.0 | 170 | 50.3 |
| Total Procurement Cost | | 128.0 | | 8.6 | | 13.2 | | 0.0 | | 149.8 |

| | | | | | | |
|---|-------------|---------|---|---|-------------|----------------|
| Exhibit P-40, Budget Item Justification Sheet | | | | | | Date: May 2009 |
| Appropriation / Budget Activity / Serial No: Aircraft Procurement, Army / 2 / Modification of aircraft | | | | P-1 Item Nomenclature GATM - Rotary Wing Aircraft (AA0704) | | |
| Program Elements for Code B Items: | | Code: | Other Related Program Elements: SSN AA0703, SSN AA0711 | | | |
| | Prior Years | FY 2008 | FY 2009 | FY 2010 | To Complete | Total Prog |
| Proc Qty | | | | | | |
| Gross Cost | 130.3 | 48.9 | 70.4 | 89.9 | | 339.6 |
| Less PY Adv Proc | | | | | | |
| Plus CY Adv Proc | | | | | | |
| Net Proc P1 | 130.3 | 48.9 | 70.4 | 89.9 | | 339.6 |
| Initial Spares | | | | | | |
| Total Proc Cost | 130.3 | 48.9 | 70.4 | 89.9 | | 339.6 |
| Flyaway U/C | | | | | | |
| Weapon System Proc U/C | | | | | | |
| Description: | | | | | | |
| Global Air Traffic Management (GATM) is the military equivalent of the International Civil Aviation architecture known as Communications, Navigation, Surveillance and Air Traffic Management (CNS/ATM) programs. GATM is a DoD term that describes the equipment, training, and procedures mandated by Civilian Air Traffic Control (ATC) authorities in order to operate within 21st century airspace. Current ground based navigation aids will be phased out of service as the world transitions to a modernized air traffic management system. The modernization is designed to meet the current and future service demands posed by aviation growth. The advanced architecture will provide improved safety, accessibility, flexibility, predictability, reliability, capacity, efficiency, and security. Military aircraft will face significant flight restrictions if not GATM equipped. GATM requirements are driven by civil aviation authorities and are not under DoD control. Meeting worldwide GATM requirements will entail the upgrading of some existing avionics and the procurement of new systems for rotary wing fleets. Included in the GATM Program is an upgrade to the Mode S Identification Friend or Foe (IFF) transponder (APX-118), an upgrade to Mode 5 capability (APX-123), and upgrades to meet requirements for 8.33KHz channel spacing. | | | | | | |
| Justification: | | | | | | |
| FY10 base funding in the amount of \$89.9 million will procure and install APX-123 B-Kits and A-Kits for the AH-64D, CH-47D/F, UH-60A/L/M, Unmanned Aerial Systems (UAS), and Special Operations Aircraft (SOA) which will allow Rotary Wing aircraft to have Mode 5 capability. Procures and installs APX-118 (Mode S) B-Kits and A-Kits for platforms not migrating to Mode 5 and retrofit kits to upgrade previously fielded APX-118 transponders to APX-123 transponders. Procurement of ARC-231 B-Kits, A-Kits, and installs to meet 8.33 khz channel spacing requirements for UH-60A/L and CH-47D is also funded in FY10. | | | | | | |
| GATM provides Army aircraft improved deployment capabilities and allows them to operate in civil airspace without the threat of exclusion. IFF Mode 5 provides enhanced security and greatly improved performance over Mode 4. It also maintains compatibility with civil ATC with less interference. Europe mandates a Mode S transponder for all flights after March 2009 and plans expansion of 8.33KHz VHF-AM controlled airspace to the ground in high volume traffic areas. Army aircraft will not be allowed to transit through or operate in European airspace affected by these mandates unless the necessary Mode S upgrades are made. The Mode S transponder impacts over 300 European based aircraft as well as those deploying to Europe. The recurring procurement of Mode S kits started in FY02 and procurement and installations continue. Benefits of GATM include direct routing through civil airspace resulting in significant savings in both time and money. It allows unrestricted operations in worldwide civil controlled airspace and improves safety and operational efficiency while meeting the new worldwide frequency spectrum requirements. GATM provides Army aircraft improved deployment capabilities and allows them to operate in civil airspace without the threat of exclusion. | | | | | | |

| | | | | | | |
|---|----------------|--------------|---|---------|---|-------------------|
| Exhibit P-40M, Budget Item Justification Sheet | | | | | | Date: May 2009 |
| Appropriation / Budget Activity / Serial No: Aircraft Procurement, Army / 2 / Modification of aircraft | | | P-1 Item Nomenclature GATM - Rotary Wing Aircraft (AA0704) | | | |
| Program Elements for Code B Items: | | | | Code: | Other Related Program Elements: SSN AA0703, SSN AA0711 | |
| Description | | Fiscal Years | | | | |
| OSIP No. | Classification | 2008 & PR | FY 2009 | FY 2010 | TC | Total |
| Global Air Traffic Management - RW | | | | | | |
| GATM-RW | Unclassified | 179.2 | 70.4 | 89.9 | 14.9 | 354.4 |
| Totals | | 179.2 | 70.4 | 89.9 | 14.9 | 354.4 |

INDIVIDUAL MODIFICATION

Date: May 2009

MODIFICATION TITLE: Global Air Traffic Management - RW [MOD 1] GATM-RW

MODELS OF SYSTEM AFFECTED: CH-47D/F, UH-60A/L/M, MH-47D/E/G, MH-60L/K/M, A/MH-6, AH-64A/D, HH60L/M, Unmanned Aerial Systems(UAS)

DESCRIPTION / JUSTIFICATION:

Global Air Traffic Management (GATM) is the military equivalent of the International Civil Aviation architecture known as Communications, Navigation, Surveillance and Air Traffic Management (CNS/ATM) programs. GATM provides the equipment, training, and procedures mandated by Civilian Air Traffic Control (ATC) authorities. Current ground based navigation aids will be phased out of service as the world transitions to a modernized air traffic management system. The modernization is designed to meet the current and future service demands posed by aviation growth. The advanced architecture will provide improved safety, accessibility, flexibility, predictability, reliability, capacity, efficiency, and security. Military aircraft will face significant flight restrictions if not GATM equipped. GATM requirements are driven by civil aviation authorities and are not under DoD control. Meeting worldwide GATM requirements will entail the upgrading of some existing avionics and the procurement of new systems for rotary wing fleets. Included in the GATM Program are upgrades to the Mode S Identification Friend or Foe (IFF) (APX-118) and Mode 5 (APX-123). FY10 base funding in the amount of \$89.9 million will procure and install APX-123 B- and A-Kits for the AH-64D, CH-47D/F, UH-60A/L/M, UAS, and Special Operations Aircraft (SOA) which will allow them to meet have Mode 5 capability. Procures and installs APX-118 B- and A-Kits for platforms not migrating to Mode 5 and retrofit kits to upgrade previously fielded APX-118 transponders to APX-123 transponders. Procurement of ARC-231 B-Kits, A-Kits, and installs to meet 8.33 khz channel spacing requirements for UH-60A/L and CH-47D is also funded in FY10. GATM provides Army aircraft improved deployment capabilities and allows operation in civil airspace without exclusion.

DEVELOPMENT STATUS / MAJOR DEVELOPMENT MILESTONE(S):

The APX-123 reached Milestone C in July 06. Integration of 8.33KHz channel spacing for UH-60A/L and CH-47D will be completed in early FY10. B-Kit quantities exceed A-Kit and install quantities because: some aircraft B-Kits are being installed on the production line and the A-Kits and installs are not funded from this budget line; some B-Kits are for trainers and simulators; and kits vary by platform. A-Kit and installation costs vary by platform. B-Kit unit costs vary due to multiple kits included. Leadtimes reflected below are for transponders (APX-118/123).

Installation Schedule

| | Pr Yr Totals | FY 2009 | | | | FY 2010 | | | | FY 2011 | | | | FY 2012 | | | | FY 2013 | | | | |
|---------|-----------------|---------|-----|-----|-----|---------|-----|-----|-----|---------|-----|-----|-----|---------|-----|-----|---|---------|---|---|---|--|
| | | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 | |
| Inputs | 1090 | 100 | 105 | 105 | 116 | 215 | 225 | 224 | 215 | 147 | 147 | 150 | 150 | 111 | 111 | | | | | | | |
| Outputs | 1041 | 49 | 100 | 105 | 105 | 116 | 215 | 225 | 224 | 215 | 147 | 147 | 150 | 150 | 111 | 111 | | | | | | |

| | FY 2014 | | | | FY 2015 | | | | FY 2016 | | | | FY 2017 | | | | To Complete | Totals | | | | |
|---------|---------|---|---|---|---------|---|---|---|---------|---|---|---|---------|---|---|---|----------------|--------|--|--|--|------|
| | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 | | | | | | |
| Inputs | | | | | | | | | | | | | | | | | | | | | | 3211 |
| Outputs | | | | | | | | | | | | | | | | | | | | | | 3211 |

METHOD OF IMPLEMENTATION: OLR Team ADMINISTRATIVE LEADTIME: 6 months PRODUCTION LEADTIME: 11 months
 Contract Dates: FY 2010 - Mar 10 FY 2011 - FY 2012 -
 Delivery Dates: FY 2010 - Feb 11 FY 2011 - FY 2012 -

INDIVIDUAL MODIFICATION

Date: May 2009

MODIFICATION TITLE (cont): Global Air Traffic Management - RW [MOD 1] GATM-RW

FINANCIAL PLAN: (\$ in Millions)

| | FY 2008 and Prior | | 2009 | | 2010 | | TC | | Total | |
|--|----------------------|--------------|------------|-------------|------------|-------------|------------|-------------|-------------|--------------|
| | Qty | \$ | Qty | \$ | Qty | \$ | Qty | \$ | Qty | \$ |
| | RDT&E | | | | | | | | | |
| Procurement | | | | | | | | | | |
| Kit Quantity - B Kits | 2600 | 92.2 | 973 | 32.7 | 1222 | 52.4 | | | 4795 | 177.3 |
| B-Kits, Nonrecurring | | 5.7 | | 4.8 | | 5.0 | | | | 15.5 |
| Kit Quantity - A Kits | 1628 | 7.3 | 989 | 13.9 | 594 | 13.0 | | | 3211 | 34.2 |
| Aircraft Integration - Nonrecurring | | 21.3 | | 6.3 | | 4.6 | | | | 32.2 |
| ECP | | 2.5 | | 1.4 | | 1.5 | | | | 5.4 |
| Data | | 3.8 | | 0.9 | | 0.6 | | | | 5.3 |
| Training Equipment | | 1.5 | | 0.8 | | 0.8 | | | | 3.1 |
| Fielding | | 2.6 | | 1.5 | | 1.5 | | | | 5.6 |
| Systems Engineering | | 9.5 | | 2.1 | | 2.1 | | | | 13.7 |
| System Test & Evaluation | | 1.2 | | 1.1 | | 1.1 | | | | 3.4 |
| Other PM Admin | | 6.1 | | 2.5 | | 2.5 | | | | 11.1 |
| Other | | 18.9 | | | | | | | | 18.9 |
| Installation of Hardware | | | | | | | | | | |
| FY 2007 & Prior Equip -- Kits | 1090 | 6.6 | 88 | 0.5 | | | | | 1178 | 7.1 |
| FY 2008 -- Kits | | | 338 | 1.9 | 112 | 0.6 | | | 450 | 2.5 |
| FY 2009 Equip -- Kits | | | | | 767 | 4.2 | 222 | 1.9 | 989 | 6.1 |
| FY 2010 Equip -- Kits | | | | | | | 594 | 13.0 | 594 | 13.0 |
| FY 2011 Equip -- Kits | | | | | | | | | | |
| FY 2012 Equip -- Kits | | | | | | | | | | |
| FY 2013 Equip -- Kits | | | | | | | | | | |
| FY 2014 Equip -- Kits | | | | | | | | | | |
| FY 2015 Equip -- Kits | | | | | | | | | | |
| Total Installment | 1090 | 6.6 | 426 | 2.4 | 879 | 4.8 | 816 | 14.9 | 3211 | 28.7 |
| Total Procurement Cost | | 179.2 | | 70.4 | | 89.9 | | 14.9 | | 354.4 |

| | | | | | | |
|--|-------------|---------|---------------------------------|---|-------------|----------------|
| Exhibit P-40, Budget Item Justification Sheet | | | | | | Date: May 2009 |
| Appropriation / Budget Activity / Serial No: Aircraft Procurement, Army / 3 / Spares and repair parts | | | | P-1 Item Nomenclature SPARE PARTS (AIR) (AA0950) | | |
| Program Elements for Code B Items: | | Code: | Other Related Program Elements: | | | |
| | Prior Years | FY 2008 | FY 2009 | FY 2010 | To Complete | Total Prog |
| Proc Qty | | | | | | |
| Gross Cost | 1262.2 | 9.2 | 6.9 | 25.3 | | 1303.6 |
| Less PY Adv Proc | | | | | | |
| Plus CY Adv Proc | | | | | | |
| Net Proc P1 | 1262.2 | 9.2 | 6.9 | 25.3 | | 1303.6 |
| Initial Spares | | | | | | |
| Total Proc Cost | 1262.2 | 9.2 | 6.9 | 25.3 | | 1303.6 |
| Flyaway U/C | | | | | | |
| Weapon System Proc U/C | | | | | | |
| Description: Provides for the procurement of spares to support initial fielding of end items. | | | | | | |
| Justification: FY 10 Budget Request funds depot level reparables (DLR) secondary items from the Supply Management, Army activity of the Army Working Capital Fund. | | | | | | |

| | |
|--|----------------|
| Exhibit P-40, Budget Item Justification Sheet | Date: May 2009 |
|--|----------------|

| | |
|---|--|
| Appropriation / Budget Activity / Serial No: Aircraft Procurement, Army / 4 / Support equipment and facilities | P-1 Item Nomenclature AIRCRAFT SURVIVABILITY EQUIPMENT (AZ3504) |
|---|--|

| | | |
|------------------------------------|-------|--|
| Program Elements for Code B Items: | Code: | Other Related Program Elements: SSN AA0720; PE/Project 0604270A/665 |
|------------------------------------|-------|--|

| | Prior Years | FY 2008 | FY 2009 | FY 2010 | To Complete | Total Prog |
|------------------------|-------------|---------|---------|---------|-------------|------------|
| Proc Qty | | | | | | |
| Gross Cost | 1006.8 | 47.8 | 56.7 | 26.0 | | 1137.3 |
| Less PY Adv Proc | 11.6 | | | | | 11.6 |
| Plus CY Adv Proc | 11.6 | | | | | 11.6 |
| Net Proc P1 | 1006.8 | 47.8 | 56.7 | 26.0 | | 1137.3 |
| Initial Spares | 53.9 | | | | | 53.9 |
| Total Proc Cost | 1060.7 | 47.8 | 56.7 | 26.0 | | 1191.2 |
| Flyaway U/C | | | | | | |
| Weapon System Proc U/C | | | | | | |

Description:
The Aircraft Survivability Equipment (ASE) budget line includes ASE Laser Countermeasures, ASE Trainers, and ASE Radio Frequency Countermeasures (RFCM).

| | | | | |
|---|---|--|---------------------|-------------------|
| Exhibit P-5, Weapon ACFT Cost Analysis | Appropriation/Budget Activity/Serial No: Aircraft Procurement, Army / 4 / Support equipment and facilities | P-1 Line Item Nomenclature: AIRCRAFT SURVIVABILITY EQUIPMENT (AZ3504) | Weapon System Type: | Date: May 2009 |
|---|---|--|---------------------|-------------------|

| ACFT Cost Elements | ID | FY 08 | | | FY 09 | | | FY 10 | | |
|-----------------------|----|--------------|------|-----------|--------------|------|-----------|--------------|------|-----------|
| | CD | Total Cost | Qty | Unit Cost | Total Cost | Qty | Unit Cost | Total Cost | Qty | Unit Cost |
| | | \$000 | Each | \$000 | \$000 | Each | \$000 | \$000 | Each | \$000 |
| ASE Trainers | | 1720 | | | 1977 | | | 2050 | | |
| ASE Laser CM | | 9836 | | | 18014 | | | 21400 | | |
| Radio Frequency CM | | 36239 | | | 36747 | | | 2525 | | |
| Total: | | 47795 | | | 56738 | | | 25975 | | |

| | | | | | | |
|---|-------------|---------|---------------------------------|--|-------------|----------------|
| Exhibit P-40, Budget Item Justification Sheet | | | | | | Date: May 2009 |
| Appropriation / Budget Activity / Serial No: Aircraft Procurement, Army / 4 / Support equipment and facilities | | | | P-1 Item Nomenclature ASE Trainers (AZ3506) | | |
| Program Elements for Code B Items: | | Code: | Other Related Program Elements: | | | |
| | Prior Years | FY 2008 | FY 2009 | FY 2010 | To Complete | Total Prog |
| Proc Qty | | | | | | |
| Gross Cost | 360.2 | 1.7 | 2.0 | 2.1 | 30.6 | 396.6 |
| Less PY Adv Proc | | | | | | |
| Plus CY Adv Proc | | | | | | |
| Net Proc P1 | 360.2 | 1.7 | 2.0 | 2.1 | 30.6 | 396.6 |
| Initial Spares | | | | | | |
| Total Proc Cost | 360.2 | 1.7 | 2.0 | 2.1 | 30.6 | 396.6 |
| Flyaway U/C | | | | | | |
| Weapon System Proc U/C | | | | | | |
| Description: The Aircraft Survivability Equipment Trainer will be a man-portable training device (MAST) that simulates shoulder fired weapons. The MAST will provide force-on-force training by stimulating the onboard Common Missile Warning System (CMWS) at the maneuver Combat Training Centers (MCTC) and home stations. The CMWS provides protection against man-portable and other missile systems. The aircraft training against the MAST include the Apache, Chinook, Kiowa Warrior, Blackhawk, and Fixed Wing platforms. | | | | | | |
| Justification: FY 2010 procures man portable CMWS stimulators for aviation Maneuver Combat Training Centers (MCTC) and home stations. | | | | | | |

| | | | | | | |
|---|-------------|---------|--|--|-------------|----------------|
| Exhibit P-40, Budget Item Justification Sheet | | | | | | Date: May 2009 |
| Appropriation / Budget Activity / Serial No: Aircraft Procurement, Army / 4 / Support equipment and facilities | | | | P-1 Item Nomenclature ASE Laser CM (AZ3508) | | |
| Program Elements for Code B Items: | | Code: | Other Related Program Elements: SSN AA0720; PE/Project 0604270A/665 | | | |
| | Prior Years | FY 2008 | FY 2009 | FY 2010 | To Complete | Total Prog |
| Proc Qty | | | | | | |
| Gross Cost | 193.5 | 9.8 | 18.0 | 21.4 | 577.1 | 819.8 |
| Less PY Adv Proc | 11.6 | | | | | 11.6 |
| Plus CY Adv Proc | 11.6 | | | | | 11.6 |
| Net Proc P1 | 193.5 | 9.8 | 18.0 | 21.4 | 577.1 | 819.8 |
| Initial Spares | | | | | | |
| Total Proc Cost | 193.5 | 9.8 | 18.0 | 21.4 | 577.1 | 819.8 |
| Flyaway U/C | | | | | | |
| Weapon System Proc U/C | | | | | | |
| Description: The AN/AVR-2B is a passive threat laser warning system that alerts the aircrew that they are being targeted by threat forces allowing the aircrew to engage the target or maneuver to break the targeting. The system detects aircraft illumination by laser rangefinders, designators, and beam rider surface to air missiles. The system additionally provides the following: aircrew visual and audio warnings according to threat lethality, 360 degree azimuth and 90 degree elevation field of view coverage, and detects aircraft illumination by Multiple Integrated Laser Engagement/Air Ground Engagement System (MILES/AGES) II lasers. | | | | | | |
| Justification: FY 2010 procures AN/AVR-2B A-Kits and installs for selected aircraft platforms in support of required operational capabilities. | | | | | | |

| Exhibit P-5, Weapon ACFT Cost Analysis | | Appropriation/Budget Activity/Serial No: Aircraft Procurement, Army / 4 / Support equipment and facilities | | | P-1 Line Item Nomenclature: ASE Laser CM (AZ3508) | | | Weapon System Type: | | Date: May 2009 | |
|---|--|---|--------------|-------|--|--------------|-------|---------------------|--------------|-------------------|-----------|
| ACFT Cost Elements | | ID CD | FY 08 | | | FY 09 | | | FY 10 | | |
| | | | Total Cost | Qty | Unit Cost | Total Cost | Qty | Unit Cost | Total Cost | Qty | Unit Cost |
| | | | \$000 | Units | \$000 | \$000 | Units | \$000 | \$000 | Units | \$000 |
| AN/AVR-2B Laser Warning | | | | | | | | | | | |
| AN/AVR-2B System Acquisition B-kits | | | 6535 | 62 | 105 | 7800 | 62 | 126 | | | |
| AN/AVR-2B System Acquisition A-kits | | | | | | | | | 6241 | 119 | 52 |
| AN/AVR-2B System Install | | | | | | | | | 10655 | | |
| Engineering Change Proposals | | | | | | | | | | | |
| Non-Recurring Production | | | | | | 3440 | | | 1823 | | |
| Program Management | | | 500 | | | 921 | | | 1113 | | |
| System Engineering/Logistics | | | 1817 | | | 4878 | | | 1568 | | |
| Spares B-kits | | | 984 | | | 975 | | | | | |
| Total: | | | 9836 | | | 18014 | | | 21400 | | |

Exhibit P-5a, Budget Procurement History and Planning

Date:
May 2009

| | | | | | | | | | | |
|---|-------------------------|--------------------------|----------------------------|------------|--|----------|-----------------|------------------|------------------|----------------|
| Appropriation/Budget Activity/Serial No: Aircraft Procurement, Army/ 4/ Support equipment and facilities | | | Weapon System Type: | | P-1 Line Item Nomenclature: ASE Laser CM (AZ3508) | | | | | |
| WBS Cost Elements: | Contractor and Location | Contract Method and Type | Location of PCO | Award Date | Date of First Delivery | QTY Each | Unit Cost \$000 | Specs Avail Now? | Date Revsn Avail | RFP Issue Date |
| AN/AVR-2B System Acquisition B-kits | | | | | | | | | | |
| FY 2008 | Goodrich Danbury, CT | C/FFP | CECOM, Ft. Monmouth, NJ | Jan 08 | Oct 08 | 62 | 105 | Yes | | |
| FY 2009 | Goodrich Danbury, CT | C/FFP | CECOM, Ft. Monmouth, NJ | Jan 09 | Oct 09 | 62 | 126 | Yes | | |
| FY 2010 | Goodrich Danbury, CT | C/FFP | CECOM, Ft. Monmouth, NJ | Jan 10 | Oct 10 | | | Yes | | |

REMARKS:

FY 08 / 09 BUDGET PRODUCTION SCHEDULE

P-1 ITEM NOMENCLATURE
ASE Laser CM (AZ3508)

Date: May 2009

COST ELEMENTS

Fiscal Year 08

Fiscal Year 09

| MFR | FY | S E R V | PROC QTY Units | ACCEP PRIOR TO 1 OCT | BAL DUE AS OF 1 OCT | Calendar Year 08 | | | | | | | | | | | | | | | Calendar Year 09 | | | | | | | | | | Later |
|-------------------------------------|-------|---------|----------------|----------------------|---------------------|------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------------------|-------|-------|-------|-------|-------|-------|-------|-------|----|-------|
| | | | | | | O C T | N O V | D E C | J A N | F E B | M A R | A P R | M A Y | J U N | J U L | A U G | S E P | O C T | N O V | D E C | J A N | F E B | M A R | A P R | M A Y | J U N | J U L | A U G | S E P | | |
| AN/AVR-2B System Acquisition B-kits | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | FY 08 | A | 62 | 0 | 62 | | | | A | | | | | | | | | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 7 | 0 | | | |
| 1 | FY 09 | A | 62 | 0 | 62 | | | | | | | | | | | | | | | | | A | | | | | | 62 | | | |
| 1 | FY 09 | NA | 6 | 0 | 6 | | | | | | | | | | | | | | | | | | | 3 | 3 | | | 0 | | | |
| 1 | FY 10 | FMS | 26 | 0 | 26 | | | | | | | | | | | | | | | | | | | | | | | 26 | | | |
| Total | | | | | 156 | | | | | | | | | | | | | 5 | 5 | 5 | 5 | 5 | 8 | 8 | 5 | 5 | 5 | 5 | 7 | 88 | |
| | | | | | | O C T | N O V | D E C | J A N | F E B | M A R | A P R | M A Y | J U N | J U L | A U G | S E P | O C T | N O V | D E C | J A N | F E B | M A R | A P R | M A Y | J U N | J U L | A U G | S E P | | |

| MFR | Name - Location | PRODUCTION RATES | | | Reached D+ | MFR | ADMIN LEAD TIME | | MFR After 1 Oct | TOTAL After 1 Oct | REMARKS |
|-----|-----------------------|------------------|-------|-----|------------|---------|-----------------|-------------|-----------------|-------------------|--|
| | | MIN | 1-8-5 | MAX | | | Prior 1 Oct | After 1 Oct | | | |
| 1 | Goodrich, Danbury, CT | 60 | 120 | 240 | 1 | Initial | 0 | 1 | 9 | 10 | Navy funding for testing on CH 53K aircraft. |
| | | | | | 1 | Reorder | 0 | 1 | 9 | 10 | |
| | | | | | | Initial | | | | | |
| | | | | | | Reorder | | | | | |
| | | | | | | Initial | | | | | |
| | | | | | | Reorder | | | | | |
| | | | | | | Initial | | | | | |
| | | | | | | Reorder | | | | | |

| | | |
|--|--|-------------------|
| FY 10 / 11 BUDGET PRODUCTION SCHEDULE | P-1 ITEM NOMENCLATURE ASE Laser CM (AZ3508) | Date: May 2009 |
|--|--|-------------------|

| COST ELEMENTS | | | | | | Fiscal Year 10 | | | | | | | | | | | | Fiscal Year 11 | | | | | | | | | | | | Later |
|---------------|----|------------------|----------------------|-------------------------------|------------------------------|------------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|------------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------|
| M F R | FY | S E R V | PROC QTY Units | ACCEP PRIOR TO 1 OCT | BAL DUE AS OF 1 OCT | Calendar Year 10 | | | | | | | | | | | | Calendar Year 11 | | | | | | | | | | | | |
| | | | | | | O C T | N O V | D E C | J A N | F E B | M A R | A P R | M A Y | J U N | J U L | A U G | S E P | O C T | N O V | D E C | J A N | F E B | M A R | A P R | M A Y | J U N | J U L | A U G | S E P | |

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-------------------------------------|-------|-----|----|----|----|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|--|--|--|--|---|
| AN/AVR-2B System Acquisition B-kits | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | FY 08 | A | 62 | 62 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 0 |
| 1 | FY 09 | A | 62 | 0 | 62 | 3 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 9 | | | | | | | | | | | | | | | | | 0 |
| 1 | FY 09 | NA | 6 | 6 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 0 |
| 1 | FY 10 | FMS | 26 | 0 | 26 | 5 | 5 | 5 | 5 | 5 | 1 | | | | | | | | | | | | | | | | | | | | | | | 0 |
| Total | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | 88 | 8 | 10 | 10 | 10 | 10 | 6 | 5 | 5 | 5 | 5 | 5 | 9 | | | | | | | | | | | | | | | | | |
| | | | | | | O C T | N O V | D E C | J A N | F E B | M A R | A P R | M A Y | J U N | J U L | A U G | S E P | O C T | N O V | D E C | J A N | F E B | M A R | A P R | M A Y | J U N | J U L | A U G | S E P | | | | | |

| M F R | Name - Location | PRODUCTION RATES | | | Reached D+ | MFR | ADMIN LEAD TIME | | MFR After 1 Oct | TOTAL After 1 Oct | REMARKS | |
|-------------|-----------------------|------------------|-------|-----|---------------|-----|-----------------|-------------|--------------------|----------------------|---------|-------------------------------------|
| | | MIN | 1-8-5 | MAX | | | Prior 1 Oct | After 1 Oct | | | | |
| 1 | Goodrich, Danbury, CT | 60 | 120 | 240 | | 1 | Initial | 0 | 1 | 9 | 10 | FMS funding for UAE UH60 Blackhawk. |
| | | | | | | | Reorder | 0 | 1 | 9 | 10 | |
| | | | | | | | Initial | | | | | |
| | | | | | | | Reorder | | | | | |
| | | | | | | | Initial | | | | | |
| | | | | | | | Reorder | | | | | |
| | | | | | | | Initial | | | | | |
| | | | | | | | Reorder | | | | | |

| | | | | | | |
|---|-------------|---------|--|--|-------------|----------------|
| Exhibit P-40, Budget Item Justification Sheet | | | | | | Date: May 2009 |
| Appropriation / Budget Activity / Serial No: Aircraft Procurement, Army / 4 / Support equipment and facilities | | | | P-1 Item Nomenclature Radio Frequency CM (AZ3511) | | |
| Program Elements for Code B Items: | | Code: | Other Related Program Elements: 0604270A.665 A/C Surv Equip Dev | | | |
| | Prior Years | FY 2008 | FY 2009 | FY 2010 | To Complete | Total Prog |
| Proc Qty | | | | | | |
| Gross Cost | 20.7 | 36.2 | 36.7 | 2.5 | 7.9 | 104.1 |
| Less PY Adv Proc | | | | | | |
| Plus CY Adv Proc | | | | | | |
| Net Proc P1 | 20.7 | 36.2 | 36.7 | 2.5 | 7.9 | 104.1 |
| Initial Spares | | | | | | |
| Total Proc Cost | 20.7 | 36.2 | 36.7 | 2.5 | 7.9 | 104.1 |
| Flyaway U/C | | | | | | |
| Weapon System Proc U/C | | | | | | |
| Description: The objective of the Aircraft Survivability Equipment (ASE) project is to improve radio frequency (RF) ASE for Army aviation. Phase 1 upgrades the Processor Line Replaceable Unit (LRU) of the AN/APR-39A(V)1 Radar Signal Detecting Set through modernization and reduced parts count. Along with improved maintainability and reliability, performance will be enhanced via increased processing speed and expanded memory. These improvements will result in faster response time, better dense environment capability and improved parameter measurement. Phase 1 serves to make the currently fielded system viable until affordable improved RF ASE capability can be pursued in Phases 2 and 3. Phase 2 initiates an improved digital Radar Warning Receiver (RWR) and Phase 3 adds active Electronic Countermeasures (ECM) for selected aircraft. | | | | | | |
| Justification: FY 2010 APA procures continued Phase 1 upgrades of the Processor Line Replaceable Unit (LRU) of the AN/APR-39A(V)1 Radar Signal Detecting Set. | | | | | | |

| ACFT Cost Elements | | ID | FY 08 | | | FY 09 | | | FY 10 | | |
|-------------------------------|--|----|--------------|-------|-----------|--------------|-------|-----------|--------------|-------|-----------|
| | | CD | Total Cost | Qty | Unit Cost | Total Cost | Qty | Unit Cost | Total Cost | Qty | Unit Cost |
| | | | \$000 | Units | \$000 | \$000 | Units | \$000 | \$000 | Units | \$000 |
| Systems Eng/Mgt | | | 734 | | | 820 | | | 1343 | | |
| Recurring Production | | | 28184 | 700 | 40 | 33938 | 650 | 52 | | | |
| Training | | | 113 | | | 137 | | | | | |
| Data | | | 96 | | | 116 | | | | | |
| Fielding | | | 5908 | | | 1736 | | | | | |
| Test and Evaluation | | | 983 | | | | | | | | |
| Support Equipment | | | 144 | | | | | | | | |
| Other Procurement | | | 77 | | | | | | 1182 | | |
| Total: | | | 36239 | | | 36747 | | | 2525 | | |

Exhibit P-5a, Budget Procurement History and Planning

Date:
May 2009

| | | | | | | | | | | | |
|---|---|--|--------------------------|----------------------------|--|------------------------|-----------|-----------------|------------------|------------------|----------------|
| Appropriation/Budget Activity/Serial No: Aircraft Procurement, Army/ 4/ Support equipment and facilities | | | Weapon System Type: | | P-1 Line Item Nomenclature: Radio Frequency CM (AZ3511) | | | | | | |
| WBS Cost Elements: | Contractor and Location | | Contract Method and Type | Location of PCO | Award Date | Date of First Delivery | QTY Units | Unit Cost \$000 | Specs Avail Now? | Date Revsn Avail | RFP Issue Date |
| Recurring Production | | | | | | | | | | | |
| FY 2008 | Northrup Grumman Rolling Meadows, IL | | TBD | CECOM, Ft. Monmouth, NJ | Jun 08 | Oct 09 | 700 | 40 | | | |
| FY 2009 | Northrup Grumman Rolling Meadows, IL | | TBD | CECOM, Ft. Monmouth, NJ | Jun 09 | Jun 11 | 650 | 52 | | | |

REMARKS:

FY 10 / 11 BUDGET PRODUCTION SCHEDULE

P-1 ITEM NOMENCLATURE
Radio Frequency CM (AZ3511)

Date: May 2009

| COST ELEMENTS | | | | | Fiscal Year 10 | | | | | | | | | | | | Fiscal Year 11 | | | | | | | | | | | | Later | |
|---------------|----|---------|---------------|----------------------|---------------------|------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------------|------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| MFR | FY | S E R V | PROC QTY Each | ACCEP PRIOR TO 1 OCT | BAL DUE AS OF 1 OCT | Calendar Year 10 | | | | | | | | | | | | Calendar Year 11 | | | | | | | | | | | | |
| | | | | | | O C T | N O V | D E C | J A N | F E B | M A R | A P R | M A Y | J U N | J U L | A U G | S E P | O C T | N O V | D E C | J A N | F E B | M A R | A P R | M A Y | J U N | J U L | A U G | | S E P |

| Recurring Production | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------------|-------|---|-----|---|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--|----|----|----|----|-----|----|-----|
| 1 | FY 08 | A | 700 | 0 | 700 | 10 | 30 | 60 | 100 | 100 | 100 | 100 | 100 | 100 | | | | | | | | | | | | | | | | | | 0 | | | | | |
| 1 | FY 09 | A | 650 | 0 | 650 | | | | | | | | | | | | | | | | | | | | | | | | | | 75 | 75 | 75 | 75 | 350 | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Total | | | | | 1350 | 10 | 30 | 60 | 100 | 100 | 100 | 100 | 100 | 100 | | | | | | | | | | | | | | | | | | | 75 | 75 | 75 | 75 | 350 |
| | | | | | | O C T | N O V | D E C | J A N | F E B | M A R | A P R | M A Y | J U N | J U L | A U G | S E P | O C T | N O V | D E C | J A N | F E B | M A R | A P R | M A Y | J U N | J U L | A U G | S E P | | | | | | | | |

| MFR | Name - Location | PRODUCTION RATES | | | Reached D+ | MFR | ADMIN LEAD TIME | | MFR After 1 Oct | TOTAL After 1 Oct | REMARKS |
|-----|-----------------|------------------|---------------------------------------|-----|------------|---------|-----------------|-------------|-----------------|-------------------|---------|
| | | MIN | 1-8-5 | MAX | | | Prior 1 Oct | After 1 Oct | | | |
| | | 1 | Northrup Grumman, Rolling Meadows, IL | 120 | 600 | 1200 | 1 | Initial | 0 | 1 | |
| | | | | | | Reorder | 0 | 0 | 0 | 0 | |
| | | | | | | Initial | | | | | |
| | | | | | | Reorder | | | | | |
| | | | | | | Initial | | | | | |
| | | | | | | Reorder | | | | | |
| | | | | | | Initial | | | | | |
| | | | | | | Reorder | | | | | |
| | | | | | | Initial | | | | | |
| | | | | | | Reorder | | | | | |

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|---|-------------|---------|---------------------------------|---|-------------|----------------|
| Exhibit P-40, Budget Item Justification Sheet | | | | | | Date: May 2009 |
| Appropriation / Budget Activity / Serial No: Aircraft Procurement, Army / 4 / Support equipment and facilities | | | | P-1 Item Nomenclature ASE INFRARED CM (AZ3507) | | |
| Program Elements for Code B Items: | | Code: | Other Related Program Elements: | | | |
| | Prior Years | FY 2008 | FY 2009 | FY 2010 | To Complete | Total Prog |
| Proc Qty | | | | | | |
| Gross Cost | 1519.5 | 814.3 | 585.5 | 298.0 | | 3217.2 |
| Less PY Adv Proc | | | | | | |
| Plus CY Adv Proc | | | | | | |
| Net Proc P1 | 1519.5 | 814.3 | 585.5 | 298.0 | | 3217.2 |
| Initial Spares | | | | | | |
| Total Proc Cost | 1519.5 | 814.3 | 585.5 | 298.0 | | 3217.2 |
| Flyaway U/C | | | | | | |
| Weapon System Proc U/C | | | | | | |
| Description: | | | | | | |
| <p>The Advanced Threat Infrared Countermeasure (ATIRCM) is a US Army program to develop, test, and integrate defensive infrared (IR) countermeasures capabilities into existing, current generation host platforms for more effective protection against a greater number of IR- guided missile threats than afforded by currently fielded IR countermeasures. The US Army operational requirements concept for IR countermeasure systems is known as the Suite of Integrated Infrared Countermeasures (SIIRCM). It is an integrated warning and countermeasure system to enhance aircraft survivability against IR guided threat missile systems. The core element of the SIIRCM concept is the ATIRCM, Common Missile Warning System (CMWS) Program. The ATIRCM/CMWS, a subsystem to a host aircraft, is an integrated ultraviolet (UV) missile warning system and an IR Laser Jamming and Improved Countermeasure Dispenser (ICMD).</p> <p>The CMWS also functions as a stand-alone system with the capability to detect missiles and provide audible and visual warnings to the pilot(s); and, when installed with the ICMD, activates expendables to provide a degree of protection. ATIRCM/CMWS is the key IR survivability system for current and future Army aircraft.</p> <p>The A-Kit is the modification hardware, wiring harness, cable, etc., necessary to install and interface the ATIRCM/CMWS Mission Kit to each platform. The A-Kit ensures the Mission Kit is functionally and physically operational with the host platform.</p> <p>The Mission Kit consists of the ATIRCM/CMWS which performs the missile detection, false alarm rejection, and missile declaration functions of the system. The Electronic Control Unit (ECU) of the CMWS sends a missile alert signal to on-board avionics and other Aircraft Survivability Equipment (ASE) such as expendable flare dispensers. Threat missiles detected by the CMWS are handed over to the ATIRCM.</p> | | | | | | |
| Justification: | | | | | | |
| <p>FY 2010 Base funding in the amount of \$186 million procures recurring production of the CMWS A-kits and associated installation and integration, and the Generation 3 (GEN 3) Electronic Control Unit (ECU) effort.</p> <p>FY 2010 OCO funding in the amount of \$112 million procures spares and support for the ATIRCM Quick Reaction Capability (QRC).</p> | | | | | | |

| Exhibit P-5, Weapon ACFT Cost Analysis | | Appropriation/Budget Activity/Serial No: Aircraft Procurement, Army / 4 / Support equipment and facilities | | | P-1 Line Item Nomenclature: ASE INFRARED CM (AZ3507) | | | Weapon System Type: | | Date: May 2009 | |
|---|--|---|---------------|-------|---|---------------|-------|---------------------|---------------|-------------------|-----------|
| ACFT Cost Elements | | ID CD | FY 08 | | | FY 09 | | | FY 10 | | |
| | | | Total Cost | Qty | Unit Cost | Total Cost | Qty | Unit Cost | Total Cost | Qty | Unit Cost |
| | | | \$000 | Units | \$000 | \$000 | Units | \$000 | \$000 | Units | \$000 |
| A Kit CMWS Recurring | | B | 55869 | 170 | 329 | 62169 | 219 | 284 | 34240 | 87 | 394 |
| A Kit CMWS Installation | | | 42323 | | | 34504 | | | 28058 | | |
| A Kit ATIRCM Retrofits | | | 22900 | 70 | 327 | 45126 | 138 | 327 | | | |
| CMWS Recurring Hardware | | B | 126985 | 339 | 375 | 21600 | | | | | |
| ATIRCM B Kit Recurring Hardware | | B | 244697 | 70 | 3496 | | | | | | |
| ATIRCM B-Kit Nonrecurring | | | 63174 | | | 1500 | | | | | |
| CIRCM Nonrecurring | | | | | | | | | | | |
| A-Kit Integration | | | 31627 | | | 59400 | | | 19077 | | |
| ICS/Spt Eq/Trans/Training | | | 36537 | | | 50076 | | | 145611 | | |
| In House/Matrix Spt | | | 34653 | | | 23378 | | | 28554 | | |
| Program Management | | | 2392 | | | 983 | | | 1002 | | |
| Spares | | | 34488 | | | 11064 | | | 2313 | | |
| CTR SEPM/ECO/SW Spt | | | 41682 | | | 99293 | | | 23191 | | |
| Modification Effort (Gen 3 ECU) | | | | | | 30168 | 55 | 549 | 15910 | 110 | 145 |
| RESET | | | | | | | | | | | |
| Other Platform Procurement | | | | | | | | | | | |
| CH-47 Suppression | | | 50800 | | | | | | | | |
| UH-60 Suppression | | | 26200 | | | | | | | | |
| AVR2B | | | | | | 15000 | | | | | |
| IR Suppressor Kits | | | | | | | | | | | |
| AH-64 | | | | | | 19200 | | | | | |
| CH-47 | | | | | | 56000 | | | | | |
| UH-60 | | | | | | 36000 | | | | | |
| Misc Support | | | | | | 20000 | | | | | |
| Total: | | | 814327 | | | 585461 | | | 297956 | | |

Exhibit P-5a, Budget Procurement History and Planning

Date:
May 2009

| WBS Cost Elements: | Contractor and Location | Contract Method and Type | Location of PCO | Award Date | Date of First Delivery | QTY Each | Unit Cost \$000 | Specs Avail Now? | Date Revsn Avail | RFP Issue Date |
|---|---------------------------|--------------------------|----------------------------|---|------------------------|----------|-----------------|------------------|------------------|----------------|
| Appropriation/Budget Activity/Serial No: Aircraft Procurement, Army/ 4/ Support equipment and facilities | | Weapon System Type: | | P-1 Line Item Nomenclature: ASE INFRARED CM (AZ3507) | | | | | | |
| A Kit CMWS Recurring | | | | | | | | | | |
| FY 2008 | Various | CPFF | Various | Dec 07 | May 08 | 170 | 329 | Yes | | |
| FY 2009 | Various | CPFF | Various | Dec 08 | May 09 | 219 | 284 | Yes | | |
| FY 2010 | Various | CPFF | Various | Dec 09 | May 10 | 87 | 394 | Yes | | |
| A Kit ATIRCM Retrofits | | | | | | | | | | |
| FY 2008 | BAE Systems Nashua, NH | SS/FFP | CECOM, Ft. Monmouth, NJ | Dec 07 | May 08 | 70 | 327 | N/A | | |
| FY 2009 | BAE Systems Nashua, NH | SS/FFP | CECOM, Ft. Monmouth, NJ | Aug 09 | Jan 10 | 138 | 327 | Yes | | |
| CMWS Recurring Hardware | | | | | | | | | | |
| FY 2008 | BAE Systems Nashua, NH | SS/FFP | CECOM, Ft. Monmouth, NJ | Dec 07 | Aug 08 | 339 | 375 | Yes | | |
| ATIRCM B Kit Recurring Hardware | | | | | | | | | | |
| FY 2008 | BAE Systems Nashua, NH | SS/FFP | CECOM, Ft. Monmouth, NJ | Dec 07 | May 08 | 70 | 3496 | N/A | | |
| Modification Effort (Gen 3 ECU) | | | | | | | | | | |
| FY 2009 | BAE Systems Nashua, NH | SS/FFP | CECOM, Ft Monmouth, NJ | Dec 07 | Oct 08 | 55 | 549 | Yes | | |
| FY 2010 | BAE Systems Nashua, NH | SS/FFP | CECOM, Ft Monmouth, NJ | Dec 08 | Oct 09 | 110 | 145 | Yes | | |

REMARKS:

| | | |
|--|---|-------------------|
| FY 09 / 10 BUDGET PRODUCTION SCHEDULE | P-1 ITEM NOMENCLATURE ASE INFRARED CM (AZ3507) | Date: May 2009 |
|--|---|-------------------|

| COST ELEMENTS | | | | | | Fiscal Year 09 | | | | | | | | | | | | Fiscal Year 10 | | | | | | | | | | | | Later |
|---------------------------------|-------|------------------|----------------------|-------------------------------|------------------------------|------------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|------------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------|
| M F R | FY | S E R V | PROC QTY Units | ACCEP PRIOR TO 1 OCT | BAL DUE AS OF 1 OCT | Calendar Year 09 | | | | | | | | | | | | Calendar Year 10 | | | | | | | | | | | | |
| | | | | | | O C T | N O V | D E C | J A N | F E B | M A R | A P R | M A Y | J U N | J U L | A U G | S E P | O C T | N O V | D E C | J A N | F E B | M A R | A P R | M A Y | J U N | J U L | A U G | S E P | |
| A Kit CMWS Recurring | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | FY 08 | A | 170 | 70 | 100 | 14 | 14 | 14 | 14 | 14 | 15 | 15 | | | | | | | | | | | | | | | | 0 | | |
| 1 | FY 09 | A | 219 | 0 | 219 | | | A | | | | | 18 | 18 | 18 | 18 | 18 | 18 | 18 | 18 | 18 | 18 | 19 | 19 | 19 | | | | 0 | |
| 1 | FY 10 | A | 87 | 0 | 87 | | | | | | | | | | | | | | A | | | | | | 7 | 7 | 7 | 7 | 7 | 52 |
| A Kit ATIRCM Retrofits | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | FY 08 | A | 0 | -42 | 42 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | | | | | | | | | | | | | | | | | 0 | |
| 2 | FY 09 | A | 89 | -49 | 138 | | | A | | | | | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 12 | 12 | 12 | 12 | 12 | 12 | | | | 0 | |
| CMWS Recurring Hardware | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3 | FY 08 | A | 339 | 58 | 281 | 29 | 28 | 28 | 28 | 28 | 28 | 28 | 28 | 28 | 28 | | | | | | | | | | | | | | 0 | |
| ATIRCM B Kit Recurring Hardware | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4 | FY 08 | A | 70 | -42 | 42 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | | | | | | | | | | | | | | | | | 0 | |
| Modification Effort (Gen 3 ECU) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5 | FY 09 | A | 55 | -55 | 55 | 4 | 4 | 4 | 4 | 4 | 5 | 5 | 5 | 5 | 5 | 5 | | | | | | | | | | | | | 0 | |
| 5 | FY 10 | A | 110 | -110 | 110 | | | A | | | | | | | | | 8 | 8 | 8 | 8 | 8 | 8 | 10 | 10 | 10 | 10 | 10 | 10 | 0 | |
| Total | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | O C T | N O V | D E C | J A N | F E B | M A R | A P R | M A Y | J U N | J U L | A U G | S E P | O C T | N O V | D E C | J A N | F E B | M A R | A P R | M A Y | J U N | J U L | A U G | S E P | |

| M F R | Name - Location | PRODUCTION RATES | | | Reached D+ | MFR | ADMIN LEAD TIME | | MFR After 1 Oct | TOTAL After 1 Oct | REMARKS |
|-------------|-------------------------|------------------|-------|---------|---------------|-----|-----------------|-------------|--------------------|----------------------|---------|
| | | MIN | 1-8-5 | MAX | | | Prior 1 Oct | After 1 Oct | | | |
| | | | | Initial | | | Reorder | | | | |
| 1 | Various, Various | 18 | 200 | 800 | | 1 | 0 | 3 | 3 | 6 | |
| 2 | BAE Systems, Nashua, NH | 24 | 120 | 300 | | 2 | 0 | 3 | 5 | 8 | |
| 3 | BAE Systems, Nashua, NH | 12 | 480 | 1200 | | 3 | 0 | 3 | 5 | 8 | |
| 4 | BAE Systems, Nashua, NH | 12 | 48 | 120 | | 3 | 0 | 4 | 10 | 14 | |
| | | | | | | 4 | 0 | 1 | 12 | 13 | |
| | | | | | | 4 | 6 | 6 | 12 | 18 | |
| | | | | | | 4 | 3 | 3 | 12 | 15 | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |

| | | |
|--|---|-------------------|
| FY 11 / 12 BUDGET PRODUCTION SCHEDULE | P-1 ITEM NOMENCLATURE ASE INFRARED CM (AZ3507) | Date: May 2009 |
|--|---|-------------------|

| COST ELEMENTS | | | | | Fiscal Year 11 | | | | | | | | | | | | | Fiscal Year 12 | | | | | | | | | | | | | Later | | |
|---------------------------------|-------|------------------|----------------------|-------------------------------|------------------------------|------------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|----------------|------------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|--|-------|--|------|
| M F R | FY | S E R V | PROC QTY Units | ACCEP PRIOR TO 1 OCT | BAL DUE AS OF 1 OCT | Calendar Year 11 | | | | | | | | | | | | | Calendar Year 12 | | | | | | | | | | | | | | |
| | | | | | | O C T | N O V | D E C | J A N | F E B | M A R | A P R | M A Y | J U N | J U L | A U G | S E P | O C T | N O V | D E C | J A N | F E B | M A R | A P R | M A Y | J U N | J U L | A U G | S E P | | | | |
| A Kit CMWS Recurring | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | FY 08 | A | 170 | 170 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 0 |
| 1 | FY 09 | A | 219 | 219 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 0 |
| 1 | FY 10 | A | 87 | 35 | 52 | 7 | 7 | 7 | 7 | 8 | 8 | 8 | | | | | | | | | | | | | | | | | | | | | 0 |
| A Kit ATIRCM Retrofits | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | FY 08 | A | 0 | 0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 0 |
| 2 | FY 09 | A | 89 | 89 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 0 |
| CMWS Recurring Hardware | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3 | FY 08 | A | 339 | 0 | 2373 | | | | | | | | | | | | | | | | | | | | | | | | | | | | 2373 |
| ATIRCM B Kit Recurring Hardware | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4 | FY 08 | A | 70 | 0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 0 |
| Modification Effort (Gen 3 ECU) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5 | FY 09 | A | 55 | 0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 0 |
| 5 | FY 10 | A | 110 | 0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 0 |
| Total | | | | | 2425 | 7 | 7 | 7 | 7 | 8 | 8 | 8 | | | | | | | | | | | | | | | | | | | | | 2373 |
| | | | | | O C T | N O V | D E C | J A N | F E B | M A R | A P R | M A Y | J U N | J U L | A U G | S E P | O C T | N O V | D E C | J A N | F E B | M A R | A P R | M A Y | J U N | J U L | A U G | S E P | | | | | |

| M F R | Name - Location | PRODUCTION RATES | | | Reached D+ | MFR | ADMIN LEAD TIME | | MFR After 1 Oct | TOTAL After 1 Oct | REMARKS Production rates are yearly rates. |
|-------------|-------------------------|------------------|-------|---------|---------------|-----|-----------------|-------------|--------------------|----------------------|---|
| | | MIN | 1-8-5 | MAX | | | Prior 1 Oct | After 1 Oct | | | |
| | | | | Initial | | | Reorder | | | | |
| 1 | Various, Various | 18 | 200 | 800 | | 1 | 0 | 3 | 3 | 6 | |
| | | | | | | | 0 | 3 | 3 | 6 | |
| 2 | BAE Systems, Nashua, NH | 24 | 120 | 300 | | 2 | 0 | 3 | 5 | 8 | |
| | | | | | | | 0 | 3 | 5 | 8 | |
| 3 | BAE Systems, Nashua, NH | 12 | 480 | 1200 | | 3 | 0 | 4 | 10 | 14 | |
| | | | | | | | 0 | 1 | 12 | 13 | |
| 4 | BAE Systems, Nashua, NH | 12 | 48 | 120 | | 4 | 6 | 6 | 12 | 18 | |
| | | | | | | | 3 | 3 | 12 | 15 | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
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|--|----------------|
| Exhibit P-40, Budget Item Justification Sheet | Date: May 2009 |
|--|----------------|

| | |
|---|--|
| Appropriation / Budget Activity / Serial No: Aircraft Procurement, Army / 4 / Support equipment and facilities | P-1 Item Nomenclature AVIONICS SUPPORT EQUIPMENT (AZ3000) |
|---|--|

| | | |
|------------------------------------|-------|---------------------------------|
| Program Elements for Code B Items: | Code: | Other Related Program Elements: |
|------------------------------------|-------|---------------------------------|

| | Prior Years | FY 2008 | FY 2009 | FY 2010 | To Complete | Total Prog |
|------------------------|-------------|---------|---------|---------|-------------|------------|
| Proc Qty | 2925 | | | | | 2925 |
| Gross Cost | 475.8 | 5.0 | 5.0 | 4.9 | | 490.8 |
| Less PY Adv Proc | | | | | | |
| Plus CY Adv Proc | | | | | | |
| Net Proc P1 | 475.8 | 5.0 | 5.0 | 4.9 | | 490.8 |
| Initial Spares | | | | | | |
| Total Proc Cost | 475.8 | 5.0 | 5.0 | 4.9 | | 490.8 |
| Flyaway U/C | | | | | | |
| Weapon System Proc U/C | | | | | | |

Description:
 Consists of a family of avionics support equipment. Current program consists of the Aviators' Night Vision Imaging System (ANVIS).

| | |
|--|----------------|
| Exhibit P-40, Budget Item Justification Sheet | Date: May 2009 |
|--|----------------|

| | |
|---|---|
| Appropriation / Budget Activity / Serial No: Aircraft Procurement, Army / 4 / Support equipment and facilities | P-1 Item Nomenclature ANVIS (K35601) |
|---|---|

| | | |
|------------------------------------|---------|---------------------------------|
| Program Elements for Code B Items: | Code: A | Other Related Program Elements: |
|------------------------------------|---------|---------------------------------|

| | Prior Years | FY 2008 | FY 2009 | FY 2010 | To Complete | Total Prog |
|------------------------|-------------|---------|---------|---------|-------------|------------|
| Proc Qty | 2925 | | | | | 2925 |
| Gross Cost | 475.8 | 5.0 | 5.0 | 4.9 | | 490.8 |
| Less PY Adv Proc | | | | | | |
| Plus CY Adv Proc | | | | | | |
| Net Proc P1 | 475.8 | 5.0 | 5.0 | 4.9 | | 490.8 |
| Initial Spares | | | | | | |
| Total Proc Cost | 475.8 | 5.0 | 5.0 | 4.9 | | 490.8 |
| Flyaway U/C | | | | | | |
| Weapon System Proc U/C | | | | | | |

Description:
The AN/AVS-6, Aviator's Night Vision Imaging System (ANVIS), supports the Army's objectives by permitting superior tactical mobility of rotary wing aircraft during darkness and low light conditions. The AN/AVS-6 also supports Fixed Wing Lift permitting loading/unloading and flight during darkness and low light conditions. The AN/AVS-6 is a binocular, helmet-mounted system for Aviation crew members. The AN/AVS-6(V)3 is a night vision goggle that significantly expands the input dynamic range to support operations in conditions that vary from below starlight illumination levels through strong urban lighting situations.

Justification:
FY 2010 procures 410 AN/AVS-6(V)3 systems for fielding to Active Units. The increased capability of the AN/AVS-6(V)3 yields enhanced mission performance and improved safety of flight, compared to what is now possible using previous AN/AVS-6 systems. The AN/AVS-6(V)3 enhances the survivability, lethality, and tactical mobility for aviators.

| | | | | |
|---|---|---|---------------------|-------------------|
| Exhibit P-5, Weapon ACFT Cost Analysis | Appropriation/Budget Activity/Serial No: Aircraft Procurement, Army / 4 / Support equipment and facilities | P-1 Line Item Nomenclature: ANVIS (K35601) | Weapon System Type: | Date: May 2009 |
|---|---|---|---------------------|-------------------|

| ACFT Cost Elements | ID | FY 08 | | | FY 09 | | | FY 10 | | |
|---------------------------|----|-------------|------|-----------|-------------|------|-----------|-------------|------|-----------|
| | CD | Total Cost | Qty | Unit Cost | Total Cost | Qty | Unit Cost | Total Cost | Qty | Unit Cost |
| | | \$000 | Each | \$000 | \$000 | Each | \$000 | \$000 | Each | \$000 |
| K35601 ANVIS/HUD | | | | | | | | | | |
| ANVIS | | 4081 | 453 | 9.005 | 3938 | 428 | 9.202 | 3852 | 410 | 9.395 |
| Engineering Support | | 310 | | | 365 | | | 368 | | |
| Project Management Admin | | 390 | | | 417 | | | 419 | | |
| Engineering Change Orders | | | | | 61 | | | 62 | | |
| Fielding | | 250 | | | 232 | | | 232 | | |
| Total: | | 5031 | | | 5013 | | | 4933 | | |

Exhibit P-5a, Budget Procurement History and Planning

Date:
May 2009

| | | | | | | | | | | |
|---|-------------------------|--------------------------|---------------------|------------|---|----------|-----------------|------------------|------------------|----------------|
| Appropriation/Budget Activity/Serial No: Aircraft Procurement, Army/ 4/ Support equipment and facilities | | | Weapon System Type: | | P-1 Line Item Nomenclature: ANVIS (K35601) | | | | | |
| WBS Cost Elements: | Contractor and Location | Contract Method and Type | Location of PCO | Award Date | Date of First Delivery | QTY Each | Unit Cost \$000 | Specs Avail Now? | Date Revsn Avail | RFP Issue Date |
| K35601 ANVIS/HUD | | | | | | | | | | |
| FY 2008 | TBS TBD | C/ID/IQ | RDECOM | May 09 | Jul 10 | 453 | 9.005 | Yes | | |
| FY 2009 | TBS TBD | C/ID/IQ | RDECOM | May 09 | Jul 10 | 428 | 9.202 | Yes | | |
| FY 2010 | TBS TBD | C/ID/IQ | RDECOM | Jan 10 | Dec 10 | 410 | 9.395 | Yes | | |

REMARKS:

| FY 09 / 10 BUDGET PRODUCTION SCHEDULE | | | | | | | | | | | | | | P-1 ITEM NOMENCLATURE ANVIS (K35601) | | | | | | | | | | Date: May 2009 | | | | | | | | | | | | | | | |
|--|-------|---------|---------------|----------------------|---------------------|------------------|-------|-------|-------|-------|-------|-------|-------|---|----------------|------------------|-------|-------|-------|-------|-------|-------|-------|-------------------|-------|-------|-------|-------|-------|----|----|-----|----|----|-----|----|----|----|------|
| COST ELEMENTS | | | | | Fiscal Year 09 | | | | | | | | | | Fiscal Year 10 | | | | | | | | | | Later | | | | | | | | | | | | | | |
| MFR | FY | S E R V | PROC QTY Each | ACCEP PRIOR TO 1 OCT | BAL DUE AS OF 1 OCT | Calendar Year 09 | | | | | | | | | | Calendar Year 10 | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | O C T | N O V | D E C | J A N | F E B | M A R | A P R | M A Y | J U N | J U L | A U G | S E P | O C T | N O V | D E C | J A N | F E B | M A R | A P R | M A Y | J U N | J U L | A U G | S E P | | | | | | | | | | |
| K35601 ANVIS/HUD | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | FY 08 | A | 453 | 0 | 453 | | | | | | | | | | | | | | | | | | | | | | | | 38 | 38 | 38 | 339 | | | | | | | |
| 1 | FY 09 | A | 428 | 0 | 428 | | | | | | | | | | | | | | | | | | | | | | | | | | | 36 | 36 | 36 | 320 | | | | |
| 1 | FY 10 | A | 417 | 0 | 417 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 417 | | | | |
| Total | | | | | 1298 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 74 | 74 | 74 | 1076 |
| | | | | | | O C T | N O V | D E C | J A N | F E B | M A R | A P R | M A Y | J U N | J U L | A U G | S E P | O C T | N O V | D E C | J A N | F E B | M A R | A P R | M A Y | J U N | J U L | A U G | S E P | | | | | | | | | | |

| MFR | Name - Location | PRODUCTION RATES | | | Reached D+ | MFR | ADMIN LEAD TIME | | MFR After 1 Oct | TOTAL After 1 Oct | REMARKS |
|-----|-----------------|------------------|-------|-----|------------|-----|-----------------|-------------|-----------------|-------------------|---------|
| | | MIN | 1-8-5 | MAX | | | Prior 1 Oct | After 1 Oct | | | |
| 1 | TBS, TBD | 25 | 210 | 355 | 120 | 1 | Initial | 6 | 7 | 14 | 21 |
| | | | | | | | Reorder | 1 | 3 | 11 | 14 |
| | | | | | | | Initial | | | | |
| | | | | | | | Reorder | | | | |
| | | | | | | | Initial | | | | |
| | | | | | | | Reorder | | | | |
| | | | | | | | Initial | | | | |
| | | | | | | | Reorder | | | | |
| | | | | | | | Initial | | | | |
| | | | | | | | Reorder | | | | |

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|--|---|-------------------|
| FY 11 / 12 BUDGET PRODUCTION SCHEDULE | P-1 ITEM NOMENCLATURE ANVIS (K35601) | Date: May 2009 |
|--|---|-------------------|

| COST ELEMENTS | | | | | | Fiscal Year 11 | | | | | | | | | | | | Fiscal Year 12 | | | | | | | | | | | | Later |
|---------------|----|------------------|---------------------|-------------------------------|------------------------------|------------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|------------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------|
| M F R | FY | S E R V | PROC QTY Each | ACCEP PRIOR TO 1 OCT | BAL DUE AS OF 1 OCT | Calendar Year 11 | | | | | | | | | | | | Calendar Year 12 | | | | | | | | | | | | |
| | | | | | | O C T | N O V | D E C | J A N | F E B | M A R | A P R | M A Y | J U N | J U L | A U G | S E P | O C T | N O V | D E C | J A N | F E B | M A R | A P R | M A Y | J U N | J U L | A U G | S E P | |

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------|-------|---|-----|-----|-----|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|--|--|--|---|---|
| K35601 ANVIS/HUD | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | FY 08 | A | 453 | 114 | 339 | 38 | 38 | 37 | 37 | 37 | 38 | 38 | 38 | 38 | | | | | | | | | | | | | | | | | | | 0 | |
| 1 | FY 09 | A | 428 | 108 | 320 | 36 | 36 | 36 | 36 | 36 | 35 | 35 | 35 | 35 | | | | | | | | | | | | | | | | | | | 0 | |
| 1 | FY 10 | A | 417 | 0 | 417 | | | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 70 | 70 | 69 | 69 | 69 | | | | | | | | | | | | | | | 0 |
| Total | | | | | | 1076 | 74 | 74 | 83 | 83 | 83 | 83 | 83 | 83 | 70 | 70 | 69 | 69 | 69 | | | | | | | | | | | | | | | |
| | | | | | | O C T | N O V | D E C | J A N | F E B | M A R | A P R | M A Y | J U N | J U L | A U G | S E P | O C T | N O V | D E C | J A N | F E B | M A R | A P R | M A Y | J U N | J U L | A U G | S E P | | | | | |

| M F R | Name - Location | PRODUCTION RATES | | | Reached D+ | MFR | ADMIN LEAD TIME | | MFR After 1 Oct | TOTAL After 1 Oct | REMARKS | |
|-------------|-----------------|------------------|-------|-----|---------------|-----|-----------------|-------------|--------------------|----------------------|---------|--|
| | | MIN | 1-8-5 | MAX | | | Prior 1 Oct | After 1 Oct | | | | |
| 1 | TBS, TBD | 25 | 210 | 355 | 120 | 1 | Initial | 6 | 7 | 14 | 21 | |
| | | | | | | | Reorder | 1 | 3 | 11 | 14 | |
| | | | | | | | Initial | | | | | |
| | | | | | | | Reorder | | | | | |
| | | | | | | | Initial | | | | | |
| | | | | | | | Reorder | | | | | |
| | | | | | | | Initial | | | | | |
| | | | | | | | Reorder | | | | | |
| | | | | | | | Initial | | | | | |
| | | | | | | | Reorder | | | | | |

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|---|-------------|---------|---|---------|----------------|------------|
| Exhibit P-40, Budget Item Justification Sheet | | | | | Date: May 2009 | |
| Appropriation / Budget Activity / Serial No: Aircraft Procurement, Army / 4 / Support equipment and facilities | | | P-1 Item Nomenclature COMMON GROUND EQUIPMENT (AZ3100) | | | |
| Program Elements for Code B Items: | | Code: | Other Related Program Elements: 63801/B32 | | | |
| | Prior Years | FY 2008 | FY 2009 | FY 2010 | To Complete | Total Prog |
| Proc Qty | | | | | | |
| Gross Cost | 617.8 | 85.0 | 108.6 | 111.4 | | 922.8 |
| Less PY Adv Proc | | | | | | |
| Plus CY Adv Proc | | | | | | |
| Net Proc P1 | 617.8 | 85.0 | 108.6 | 111.4 | | 922.8 |
| Initial Spares | | | | | | |
| Total Proc Cost | 617.8 | 85.0 | 108.6 | 111.4 | | 922.8 |
| Flyaway U/C | | | | | | |
| Weapon System Proc U/C | | | | | | |
| Description: Provides various types of ground support equipment. | | | | | | |

| | | | | | | |
|--|-------------|---------|--|---|-------------|----------------|
| Exhibit P-40, Budget Item Justification Sheet | | | | | | Date: May 2009 |
| Appropriation / Budget Activity / Serial No: Aircraft Procurement, Army / 4 / Support equipment and facilities | | | | P-1 Item Nomenclature AVIATION GROUND SUPPORT EQUIPMENT (AZ3520) | | |
| Program Elements for Code B Items: | | Code: | Other Related Program Elements: 63801/B32, SSN AZ3510 | | | |
| | Prior Years | FY 2008 | FY 2009 | FY 2010 | To Complete | Total Prog |
| Proc Qty | | | | | | |
| Gross Cost | 438.4 | 85.0 | 108.6 | 111.4 | | 743.4 |
| Less PY Adv Proc | | | | | | |
| Plus CY Adv Proc | | | | | | |
| Net Proc P1 | 438.4 | 85.0 | 108.6 | 111.4 | | 743.4 |
| Initial Spares | | | | | | |
| Total Proc Cost | 438.4 | 85.0 | 108.6 | 111.4 | | 743.4 |
| Flyaway U/C | | | | | | |
| Weapon System Proc U/C | | | | | | |
| Description: Aviation Ground Support Equipment (AGSE) develops, acquires, fields, and sustains aviation equipment within cost, schedule, and performance parameters, allowing the Joint Warfighter to carry out peacetime and wartime missions. Systems managed by AGSE through its Life Cycle include Aviation Vibration Analyzer, Aviation Intermediate Maintenance Shop Set, Battle Damage Assessment and Repair Block II, Aviation Ground Power Unit, Generic Aircraft Nitrogen Generator, Standard Aircraft Towing System, Aviation Shop Equipment Contact Maintenance, Non-Destructive Test Equipment, Digital Aircraft Weighing Scales, Unit Maintenance Aerial Recovery Kit, Aviation - Sets, Kits, Outfits and Tools, (Aviation Unit Maintenance Shop Set, Aviation Foot Locker and Tool Kits), support items of equipment, (Fuel Quantity Tester, Pitot Static Test Sets, Jacks, Rail Trailer, Swaging Tool Kits) and Flexible Engine Diagnostic System. AGSE is critical to the operational readiness of Aviation. AGSE products provide the finest materiel and support solutions to Army Aviation. | | | | | | |
| Justification: FY 10 Base Funding in the amount of \$88 million will procure ground support equipment which supports and sustains the operational readiness of all Army aviation field units which are operating AH-64, UH-60, CH-47, OH-58D and other Army aircraft. AGSE also provides a means to correct safety-of-flight discrepancies which endanger both life and property. Various pieces of AGSE equipment are being procured in FY 2010. The Modification Work Orders (MWOs) for the Unit Maintenance Aerial Recovery Kit provides Aviation Support Company (ASC) and Aviation Maintenance Company (AMC) units the ability to quickly rig battle/crash-damaged non-flyable modernized aircraft or aircraft undergoing maintenance for evacuation. The Aviation Ground Power Units Service Life Extension Program (SLEP) provides the capability of meeting Army helicopter servicing requirements into the next decade. The Standard Aircraft Towing System fills the need for a standard aircraft towing system that has the capability to reposition all U.S. Army rotary wing aircraft. Aviation - Sets, Kits, Outfits and Tools provides standardized tools, kits and outfits which meet transformation modularity, flexibility and mobility requirements for repair of rotary wing aircraft during combat, contingency and training operations. The Aviation Shop Equipment Contact Maintenance provides the combat maintainer a contact maintenance vehicle for transporting a crew and mission essential equipment, expendable supplies, spares and repair parts to repair or recover downed helicopters. The Aviation Vibration Analyzer Enhancement Modification Kits provide a rugged, portable and safe means of performing helicopter vibration reduction for both main and tail rotors and also upgrades the hardware and firmware which provides significant improvements to the Aviation Vibration Analyzer Control and Display Unit (CADU). The Flexible Engine Diagnostic System is a Turboshaft Engine Test Stand to verify flight readiness/safety of engines removed from aircraft maintenance. The FEDS supports the CH-47, OH-58, AH-64, and UH-60. | | | | | | |
| FY 10 OCO Funding in the amount of \$24 million will procure Aviation - Sets, Kits, Outfits and Tools (Alpha 92, AVUM #2) providing standardized tools, kits and outfits which meet | | | | | | |

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| Exhibit P-40, Budget Item Justification Sheet | | Date: May 2009 |
| Appropriation / Budget Activity / Serial No: Aircraft Procurement, Army / 4 / Support equipment and facilities | | P-1 Item Nomenclature AVIATION GROUND SUPPORT EQUIPMENT (AZ3520) |
| Program Elements for Code B Items: | Code: | Other Related Program Elements: 63801/B32, SSN AZ3510 |
| <p>transformation modularity, flexibility and mobility requirements for repair of rotary wing aircraft during combat and contingency operations. Aviation Intermediate Maintenance (AVIM) Shop Set provides modernization of current tools, replacing obsolete tools with Aerospace Standard tools and the Reset of existing systems deployed in OIF/OEF contingency operations.</p> | | |

| ACFT Cost Elements | | ID | FY 08 | | | FY 09 | | | FY 10 | | |
|---|--|----|--------------|-------|-----------|---------------|-------|-----------|---------------|-------|-----------|
| | | CD | Total Cost | Qty | Unit Cost | Total Cost | Qty | Unit Cost | Total Cost | Qty | Unit Cost |
| | | | \$000 | Units | \$000 | \$000 | Units | \$000 | \$000 | Units | \$000 |
| Non-Destructive Test Equipment (NDTE) | | | 17912 | | | 6255 | | | | | |
| Unit Maint Aerial Recovery Kit (UMARK) | | | 1751 | | | 759 | | | 782 | | |
| Aviation Vibration Analyzer (AVA) Kits | | | 244 | | | 359 | | | 461 | | |
| Aviation Ground Power Unit (AGPU) SLEP | | | 21230 | | | 41257 | | | 42187 | | |
| Standard Aircraft Towing System (SATS) | | | | | | 10858 | | | 15678 | | |
| Shop Equipment Contact Maint (SECM) | | | | | | 1835 | | | 1863 | | |
| Avn-Sets, Kits, Outfits, Tools (A-SKOT) | | | 11707 | | | 32323 | | | 20652 | | |
| Avn Intermediate Maint (AVIM) Shop Sets | | | 11176 | | | 7976 | | | 12534 | | |
| Flexible Engine Diagnostics Sys (FEDS) | | | 892 | | | 2327 | | | 12331 | | |
| Generic Aircraft Nitro Generator (GANG) | | | 11197 | | | 947 | | | | | |
| Digital Aircraft Weight Scales (DAWS) | | | 3914 | | | | | | | | |
| Program Management Support | | | 5018 | | | 3680 | | | 4898 | | |
| Subtotal | | | 85041 | | | 108576 | | | 111386 | | |
| Total: | | | 85041 | | | 108576 | | | 111386 | | |

| | | | | | | |
|---|-------------|---------|--|--|-------------|----------------|
| Exhibit P-40, Budget Item Justification Sheet | | | | | | Date: May 2009 |
| Appropriation / Budget Activity / Serial No: Aircraft Procurement, Army / 4 / Support equipment and facilities | | | | P-1 Item Nomenclature AIRCREW INTEGRATED SYSTEMS (AZ3110) | | |
| Program Elements for Code B Items: | | Code: | Other Related Program Elements: RDTE 0603801(DB45), 0604801(DC45), 0603827(S51), 0604601(S61) | | | |
| | Prior Years | FY 2008 | FY 2009 | FY 2010 | To Complete | Total Prog |
| Proc Qty | | | | | | |
| Gross Cost | 533.1 | 54.2 | 48.1 | 77.5 | | 713.0 |
| Less PY Adv Proc | | | | | | |
| Plus CY Adv Proc | | | | | | |
| Net Proc P1 | 533.1 | 54.2 | 48.1 | 77.5 | | 713.0 |
| Initial Spares | | | | | | |
| Total Proc Cost | 533.1 | 54.2 | 48.1 | 77.5 | | 713.0 |
| Flyaway U/C | | | | | | |
| Weapon System Proc U/C | | | | | | |
| Description: | | | | | | |
| <p>The Air Warrior (AW) system is a modular systems solution to aviation crewmember life support equipment, integrating survival and mission equipment into an aircrew ensemble that improves the combat effectiveness of the Army aircrew member. AW leverages joint-service technologies to increase situational awareness, enhances mobility to safely operate aircraft systems, reduces physiological stress and injuries, and provides survival gear in the event of a downed aircraft over land or water. Block 1 components include integrated Aviation Clothing and Individual Equipment, a Microclimate Cooling System (MCS) that significantly reduces heat stress and injuries, the Aircrew Integrated Helmet System with laser eye protection, chemical-biological (CB) protection, tailored body armor, overwater survival gear, and survival, escape, and evasion tools. Block 2, plus new capabilities required in the Air Warrior Capability Production Document (CPD) dated Aug 07, include the Electronic Data Manager (EDM), a lightweight touch screen computer that provides mission planning, digital moving map w/tactical overlays, and interface to Blue Force Tracking capabilities in the form of a digital kneeboard. The Aircraft Wireless Intercom System (AWIS) eliminates the mobility problems and snag hazards inherent to the current tethered cord systems. The Portable Helicopter Oxygen Delivery System (PHODS) is a lightweight system worn by the crewmember that automatically delivers oxygen to the crew member to safely conduct high altitude missions. The Integrated Survival Kit is an individual crewmember supplemental survival equipment Go Bag with integrated on-the-go Hydration capability. The Helmet Hear Through system provides an external audio capability without the need to remove the flight helmet. Cockpit Air Bags (CABS) is a crash-activated, inflatable protection system designed to supplement the current restraint systems on UH-60 and OH-58D helicopters. The Personnel Recovery Support Equipment (PRSE) program includes the modification, integration, procurement, and fielding of both unclassified and classified systems to provide a significantly enhanced ability to respond to occurrences of isolated, missing, detained or captured Soldiers. The Flat Panel Display is an enhanced helmet-mounted Heads Up Display system that projects critical flight data symbology through night vision goggles for UH-60 Blackhawk and CH-47 Chinook pilots flying low level night missions to significantly increase their situational awareness and safety.</p> | | | | | | |
| Justification: | | | | | | |
| <p>FY2010 Base procurement dollars in the amount of \$53 million supports production and fielding the Air Warrior Block 1 System, including A Kit and B Kit production and installations, the Increment III Electronic Data Manager (EDM) for deploying units and procurement of encrypted Aircraft Wireless Intercom System (AWIS). These funds also procure PRSE platforms interoperability hardware and software improvements.</p> <p>FY2010 OCO procurement dollars in the amount of \$25 million supports the Flat Panel Display which is an enhanced helmet-mounted Heads Up Display system that provides critical flight data through night vision goggles for pilots flying low level night missions.</p> | | | | | | |

| Exhibit P-5, Weapon ACFT Cost Analysis | | Appropriation/Budget Activity/Serial No: Aircraft Procurement, Army / 4 / Support equipment and facilities | | | P-1 Line Item Nomenclature: AIRCREW INTEGRATED SYSTEMS (AZ3110) | | | Weapon System Type: | | Date: May 2009 | |
|---|--|---|--------------|-------|--|--------------|-------|---------------------|--------------|-------------------|-----------|
| ACFT Cost Elements | | ID CD | FY 08 | | | FY 09 | | | FY 10 | | |
| | | | Total Cost | Qty | Unit Cost | Total Cost | Qty | Unit Cost | Total Cost | Qty | Unit Cost |
| | | | \$000 | Units | \$000 | \$000 | Units | \$000 | \$000 | Units | \$000 |
| Hardware | | | | | | | | | | | |
| - | | | | | | | | | | | |
| Air Warrior Block 1 | | | | | | | | | | | |
| Air Warrior Block 1 Ensembles | | | 14868 | 7998 | 1.9 | 5217 | 2745 | 1.9 | 3084 | 1623 | 1.9 |
| Air Warrior A Kits | | | 818 | 62 | 13.2 | 4831 | 366 | 13.2 | | | |
| A Kit Installs | | | 1421 | | | 1984 | | | | | |
| Air Warrior Microclimate Cooling Garment | | | 1489 | 5002 | 0.3 | 750 | 2501 | 0.3 | 276 | 920 | 0.3 |
| Air Warrior Microclimate Cooling Units | | | 9594 | 1246 | 7.7 | 9840 | 1278 | 7.7 | 15199 | 1974 | 7.7 |
| - | | | | | | | | | | | |
| Air Warrior Block 2 | | | | | | | | | | | |
| Electronic Data Mgr (EDM) | | | 6557 | 745 | 8.8 | 4400 | 500 | 8.8 | 4409 | 500 | 8.8 |
| EDM A Kits | | | 1914 | 500 | 3.8 | 1900 | 500 | 3.8 | | | |
| Acft Wireless Intercom Sys (AWIS) | | | 149 | 78 | 1.9 | 480 | 12 | 40.0 | 2723 | 136 | 20.0 |
| AWIS A Kits | | | 189 | 24 | 7.9 | 118 | 15 | 7.9 | | | |
| EDM/AWIS Installs | | | 1114 | | | 1150 | | | | | |
| Airframe Kits | | | | | | | | | 6606 | 904 | 7.3 |
| Airframe Kit Installs | | | | | | | | | 6593 | | |
| - | | | | | | | | | | | |
| Cockpit Air Bags (CABS) System & Install | | | | | | | | | | | |
| CABS A Kits | | | 240 | 40 | 6.0 | 90 | 15 | 6.0 | | | |
| CABS B Kits | | | 1000 | 40 | 25.0 | 375 | 15 | 25.0 | | | |
| CABS Installs | | | 200 | | | 135 | | | | | |
| CABS B-Kit Retrofit | | | 160 | 50 | 3.2 | 1000 | 312 | 3.2 | | | |
| - | | | | | | | | | | | |
| Personel Recovery Support Equipment | | | | | | | | | | | |
| PRSE Platform Modifications | | | | | | 1585 | 2 | 792.5 | | | |
| - | | | | | | | | | | | |
| Total Hardware Costs | | | 39713 | | | 33855 | | | 38890 | | |
| Other Costs | | | | | | | | | | | |
| Manuals | | | 115 | | | 117 | | | 119 | | |
| New Equipment Training | | | 212 | | | 215 | | | 218 | | |

| Exhibit P-5, Weapon ACFT Cost Analysis | Appropriation/Budget Activity/Serial No: Aircraft Procurement, Army / 4 / Support equipment and facilities | P-1 Line Item Nomenclature: AIRCREW INTEGRATED SYSTEMS (AZ3110) | | | Weapon System Type: | Date: May 2009 | | | | | |
|---|---|--|--------------|-------|---------------------|-------------------|-------|-----------|--------------|-------|-----------|
| ACFT Cost Elements | | ID | FY 08 | | | FY 09 | | | FY 10 | | |
| | | CD | Total Cost | Qty | Unit Cost | Total Cost | Qty | Unit Cost | Total Cost | Qty | Unit Cost |
| | | | \$000 | Units | \$000 | \$000 | Units | \$000 | \$000 | Units | \$000 |
| Initial Spares and Repair Parts | | | 535 | | | 537 | | | 601 | | |
| Support Equipment | | | 213 | | | 216 | | | 219 | | |
| Systems Test and Evaluation | | | 803 | | | 807 | | | 811 | | |
| Total Other Costs | | | 1878 | | | 1892 | | | 1968 | | |
| Nonrecurring Costs | | | | | | | | | | | |
| Nonrecurring Engineering | | | 899 | | | 909 | | | 918 | | |
| PRSE Interoperability Engineering | | | 3859 | | | | | | 3990 | | |
| Total Nonrecurring Costs | | | 4758 | | | 909 | | | 4908 | | |
| Air Warrior ECP | | | 594 | | | 608 | | | 611 | | |
| Systems Integration Engineering | | | 2307 | | | 2314 | | | 717 | | |
| Project Management Admin | | | 3124 | | | 3130 | | | 4067 | | |
| Total ECP, Sys Int, & Admin Costs | | | 6025 | | | 6052 | | | 5395 | | |
| Support Costs | | | | | | | | | | | |
| Fielding | | | 829 | | | 833 | | | 837 | | |
| Contract Logistics Support | | | 1019 | | | 1024 | | | 727 | | |
| Total Support Costs | | | 1848 | | | 1857 | | | 1564 | | |
| FY 2009 OCO Request | | | | | | | | | | | |
| Portable Helicopter Oxygen Delivey Syst | | | | | | 1556 | 116 | 13.4 | | | |
| Hydration System | | | | | | 322 | 2740 | 0.1 | | | |
| Integrated Survival Kit | | | | | | 537 | 2742 | 0.2 | | | |
| Helmet Hear Through System | | | | | | 1169 | 7700 | 0.2 | | | |
| Total FY 2009 OCO Request | | | | | | 3584 | | | | | |
| FY 2010 OCO Request | | | | | | | | | | | |
| Flat Panel Display | | | | | | | | | 24800 | 1240 | 20.0 |
| Total FY 2010 OCO Request | | | | | | | | | 24800 | | |
| Total: | | | 54222 | | | 48149 | | | 77525 | | |

Exhibit P-5a, Budget Procurement History and Planning

Date:
May 2009

| Appropriation/Budget Activity/Serial No: Aircraft Procurement, Army/ 4/ Support equipment and facilities | Weapon System Type: | P-1 Line Item Nomenclature: AIRCREW INTEGRATED SYSTEMS (AZ3110) | | | | | | | | |
|---|---|--|-------------------------|------------|------------------------|----------|-----------------|------------------|------------------|----------------|
| WBS Cost Elements: | Contractor and Location | Contract Method and Type | Location of PCO | Award Date | Date of First Delivery | QTY Each | Unit Cost \$000 | Specs Avail Now? | Date Revsn Avail | RFP Issue Date |
| Air Warrior Block 1 Ensembles | | | | | | | | | | |
| FY 2008 | BAE Phoenix, AZ | C/FFP | Redstone Arsenal, AL | Dec 07 | Feb 08 | 7998 | 1.9 | Yes | | Feb 03 |
| FY 2009 | CONAX St. Petersburg, FL | C/FFP | Aberdeen Proving Ground | Dec 08 | Feb 09 | 2745 | 1.9 | Yes | | Dec 07 |
| FY 2010 | CONAX St. Petersburg, FL | C/FFP | Aberdeen Proving Ground | Dec 09 | Feb 10 | 1623 | 1.9 | Yes | | |
| Air Warrior A Kits | | | | | | | | | | |
| FY 2008 | Westwind Corporation Huntsville, AL | C/FFP | Redstone Arsenal, AL | Jul 08 | Oct 08 | 62 | 13.2 | Yes | | Nov 07 |
| FY 2009 | Westwind Corporation Huntsville, AL | C/FFP | Redstone Arsenal, AL | Dec 08 | Mar 09 | 366 | 13.2 | Yes | | |
| Air Warrior Microclimate Cooling Units | | | | | | | | | | |
| FY 2008 | Carleton Technologies, Inc. Orchard Park, NY | C/FFP | Redstone Arsenal, AL | Dec 07 | Mar 08 | 1246 | 7.7 | Yes | | Aug 02 |
| FY 2009 | TBS TBS | C/FFP | Redstone Arsenal, AL | May 09 | Sep 09 | 1278 | 7.7 | Yes | | Dec 08 |
| FY 2010 | TBS TBS | C/FFP | Redstone Arsenal, AL | Dec 09 | Mar 10 | 1974 | 7.7 | Yes | | |
| Electronic Data Mgr (EDM) | | | | | | | | | | |
| FY 2008 | JVYS Huntsville, AL | C/FFP | Redstone Arsenal, AL | Dec 07 | Apr 08 | 745 | 8.8 | Yes | | Jan 05 |
| FY 2009 | Raytheon Indianapolis, IN | C/FFP | Redstone Arsenal, AL | Dec 08 | Apr 09 | 500 | 8.8 | Yes | | Jan 08 |
| FY 2010 | Raytheon Indianapolis, IN | C/FFP | Redstone Arsenal, AL | Dec 09 | Apr 10 | 500 | 8.8 | Yes | | |
| EDM A Kits | | | | | | | | | | |
| FY 2008 | Westwind Corporation Huntsville, AL | C/FFP | Redstone Arsenal, AL | Jul 08 | Oct 08 | 500 | 3.8 | Yes | | Nov 07 |
| FY 2009 | Westwind Corporation Huntsville, AL | C/FFP | Redstone Arsenal, AL | Dec 08 | Mar 09 | 500 | 3.8 | Yes | | |
| Acft Wireless Intercom Sys (AWIS) | | | | | | | | | | |
| FY 2008 | Telephonics Farmingdale, NY | S/FFP | Redstone Arsenal, AL | Jul 08 | Oct 08 | 78 | 1.9 | Yes | | Sep 07 |

Exhibit P-5a, Budget Procurement History and Planning

Date:
May 2009

| Appropriation/Budget Activity/Serial No: Aircraft Procurement, Army/ 4/ Support equipment and facilities | | Weapon System Type: | P-1 Line Item Nomenclature: AIRCREW INTEGRATED SYSTEMS (AZ3110) | | | | | | | | |
|---|--|---------------------|--|----------------------|------------|------------------------|----------|-----------------|------------------|------------------|----------------|
| WBS Cost Elements: | Contractor and Location | | Contract Method and Type | Location of PCO | Award Date | Date of First Delivery | QTY Each | Unit Cost \$000 | Specs Avail Now? | Date Revsn Avail | RFP Issue Date |
| FY 2009 | Telephonics Farmingdale, NY | | S/FFP | Redstone Arsenal, AL | Jul 09 | Oct 09 | 12 | 40.0 | Yes | | |
| FY 2010 | Telephonics Farmingdale, NY | | S/FFP | Redstone Arsenal, AL | Jul 10 | Oct 10 | 136 | 20.0 | Yes | | |
| AWIS A Kits | | | | | | | | | | | |
| FY 2008 | Westwind Corporation Huntsville, AL | | C/FFP | Redstone Arsenal, AL | Jul 08 | Oct 08 | 24 | 7.9 | Yes | | Nov 07 |
| FY 2009 | Westwind Corporation Huntsville, AL | | C/FFP | Redstone Arsenal, AL | Dec 08 | Mar 09 | 15 | 7.9 | Yes | | |
| Airframe Kits | | | | | | | | | | | |
| FY 2010 | Westwind Corporation Huntsville, AL | | C/FFP | Redstone Arsenal, AL | Dec 09 | Mar 10 | 904 | 7.3 | Yes | | Nov 07 |
| CABS A Kits | | | | | | | | | | | |
| FY 2008 | Westwind Corporation Huntsville, AL | | C/FFP | Redstone Arsenal, AL | Jun 08 | Oct 08 | 40 | 6.0 | Yes | | Mar 08 |
| FY 2009 | Westwind Corporation Huntsville, AL | | C/FFP | Redstone Arsenal, AL | Jun 09 | Oct 09 | 15 | 6.0 | Yes | | |
| CABS B Kits | | | | | | | | | | | |
| FY 2008 | BAE Phoenix, AZ | | C/FFP | Redstone Arsenal, AL | Aug 08 | Dec 08 | 40 | 25.0 | Yes | | Jun 08 |
| FY 2009 | BAE Phoenix, AZ | | C/FFP | Redstone Arsenal, AL | Aug 09 | Dec 09 | 15 | 25.0 | Yes | | |
| CABS B-Kit Retrofit | | | | | | | | | | | |
| FY 2008 | BAE Phoenix, AZ | | C/FFP | Redstone Arsenal, AL | May 08 | Jun 08 | 50 | 3.2 | Yes | | Feb 08 |
| FY 2009 | BAE Phoenix, AZ | | C/FFP | Redstone Arsenal, AL | May 09 | Jun 09 | 312 | 3.2 | Yes | | |
| PRSE Platform Modifications | | | | | | | | | | | |
| FY 2009 | TBS TBS | | C/FFP | Redstone Arsenal, AL | Mar 10 | Mar 11 | 2 | 792.5 | Yes | | |
| Portable Helicopter Oxygen Delivey Syst | | | | | | | | | | | |
| FY 2009 | U.S. Divers Co Inc Vista, CA | | C/FFP | Aberdeen Proving Grd | Sep 09 | Jun 10 | 116 | 13.4 | Yes | | Jun 08 |
| Hydration System | | | | | | | | | | | |
| FY 2009 | TBS TBS | | C/FFP | TBS | Sep 09 | Jun 10 | 2740 | 0.1 | Yes | | Aug 09 |

Exhibit P-5a, Budget Procurement History and Planning

Date:
May 2009

| Appropriation/Budget Activity/Serial No: Aircraft Procurement, Army/ 4/ Support equipment and facilities | | Weapon System Type: | P-1 Line Item Nomenclature: AIRCREW INTEGRATED SYSTEMS (AZ3110) | | | | | | | |
|---|---------------------------|--------------------------|--|------------|------------------------|----------|-----------------|------------------|------------------|----------------|
| WBS Cost Elements: | Contractor and Location | Contract Method and Type | Location of PCO | Award Date | Date of First Delivery | QTY Each | Unit Cost \$000 | Specs Avail Now? | Date Revsn Avail | RFP Issue Date |
| Integrated Survival Kit FY 2009 | TBS TBS | C/FFP | TBS | Sep 09 | Jun 10 | 2742 | 0.2 | Yes | | Aug 09 |
| Helmet Hear Through System FY 2009 | TBS TBS | C/FFP | TBS | Sep 09 | Mar 10 | 7700 | 0.2 | Yes | | Aug 09 |
| Flat Panel Display FY 2010 | EFW Inc. Ft. Worth, TX | S/FFP | Redstone Arsenal, AL | Jan 10 | Oct 10 | 1240 | 20.0 | Yes | | Jun 05 |

REMARKS: 1

| | | |
|--|--|-------------------|
| FY 09 / 10 BUDGET PRODUCTION SCHEDULE | P-1 ITEM NOMENCLATURE AIRCREW INTEGRATED SYSTEMS (AZ3110) | Date: May 2009 |
|--|--|-------------------|

| COST ELEMENTS | | | | | | Fiscal Year 09 | | | | | | | | | | | | Fiscal Year 10 | | | | | | | | | | | | Later |
|---------------|----|------------------|----------------------|-------------------------------|------------------------------|------------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|------------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------|
| M F R | FY | S E R V | PROC QTY Units | ACCEP PRIOR TO 1 OCT | BAL DUE AS OF 1 OCT | Calendar Year 09 | | | | | | | | | | | | Calendar Year 10 | | | | | | | | | | | | |
| | | | | | | O C T | N O V | D E C | J A N | F E B | M A R | A P R | M A Y | J U N | J U L | A U G | S E P | O C T | N O V | D E C | J A N | F E B | M A R | A P R | M A Y | J U N | J U L | A U G | S E P | |

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-------------------------------|-------|---|------|------|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Air Warrior Block 1 Ensembles | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 11 | FY 08 | A | 7998 | 5330 | 2668 | 667 | 667 | 667 | 667 | | | | | | | | | | | | | | | | | | | 0 |
| 5 | FY 09 | A | 2745 | 0 | 2745 | | | A | | 228 | 228 | 228 | 229 | 229 | 229 | 229 | 229 | 229 | 229 | 229 | 229 | | | | | | | 0 |
| 5 | FY 10 | A | 1623 | 0 | 1623 | | | | | | | | | | | | | | A | | 135 | 135 | 135 | 135 | 135 | 135 | 135 | 543 |

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------------|-------|---|-----|---|-----|----|----|---|--|----|----|----|----|----|----|----|----|----|----|----|----|--|--|--|--|--|--|---|
| Air Warrior A Kits | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | FY 08 | A | 62 | 0 | 62 | 31 | 31 | | | | | | | | | | | | | | | | | | | | | 0 |
| 1 | FY 09 | A | 366 | 0 | 366 | | | A | | 30 | 30 | 30 | 30 | 30 | 30 | 31 | 31 | 31 | 31 | 31 | 31 | | | | | | | 0 |

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|-------|---|------|-----|------|-----|-----|-----|-----|-----|--|--|---|--|--|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Air Warrior Microclimate Cooling Units | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | FY 08 | A | 1246 | 726 | 520 | 104 | 104 | 104 | 104 | 104 | | | | | | | | | | | | | | | | | | 0 |
| 10 | FY 09 | A | 1278 | 0 | 1278 | | | | | | | | A | | | 106 | 106 | 106 | 106 | 106 | 106 | 106 | 107 | 107 | 107 | 107 | 107 | 0 |
| 10 | FY 10 | A | 1974 | 0 | 1974 | | | | | | | | | | | | | | A | | | | 164 | 164 | 164 | 164 | 164 | 990 |

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---------------------------|-------|---|-----|-----|-----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|-----|
| Electronic Data Mgr (EDM) | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3 | FY 08 | A | 745 | 372 | 373 | 62 | 62 | 62 | 62 | 62 | 63 | | | | | | | | | | | | | | | | | 0 |
| 6 | FY 09 | A | 500 | 0 | 500 | | | A | | | | 41 | 41 | 41 | 41 | 42 | 42 | 42 | 42 | 42 | 42 | 42 | 42 | 42 | 42 | 42 | 42 | 0 |
| 6 | FY 10 | A | 500 | 0 | 500 | | | | | | | | | | | | | | A | | | | 41 | 41 | 41 | 41 | 42 | 252 |

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|------------|--|--|--|--|--|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|--|
| EDM A Kits | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | O C T | N O V | D E C | J A N | F E B | M A R | A P R | M A Y | J U N | J U L | A U G | S E P | O C T | N O V | D E C | J A N | F E B | M A R | A P R | M A Y | J U N | J U L | A U G | S E P | |

| M F R | Name - Location | PRODUCTION RATES | | | Reached D+ | MFR | ADMIN LEAD TIME | | MFR After 1 Oct | TOTAL After 1 Oct | REMARKS | | |
|-------------|---|------------------|-------|------|---------------|-----|-----------------|---------|--------------------|----------------------|---------|-------------|-------------|
| | | MIN | 1-8-5 | MAX | | | 1 | Initial | | | | Prior 1 Oct | After 1 Oct |
| | | | | | | | | | | | | | |
| 1 | Westwind Corporation, Huntsville, AL | 50 | 400 | 1500 | | 1 | Initial | 5 | 9 | 3 | 12 | | |
| | | | | | | | Reorder | 0 | 2 | 3 | 5 | | |
| 2 | Carleton Technologies, Inc., Orchard Park, NY | 84 | 2000 | 4000 | | 2 | Initial | 4 | 2 | 3 | 5 | | |
| | | | | | | | Reorder | 0 | 2 | 3 | 5 | | |
| 3 | JVYS, Huntsville, AL | 41 | 600 | 1000 | | | Initial | 5 | 4 | 4 | 8 | | |
| | | | | | | | Reorder | 0 | 2 | 4 | 6 | | |
| 4 | Telephonics, Farmingdale, NY | 6 | 250 | 500 | | 3 | Initial | 5 | 9 | 3 | 12 | | |
| | | | | | | | Reorder | 0 | 9 | 3 | 12 | | |
| 5 | CONAX, St. Petersburg, FL | 83 | 300 | 1000 | | | Initial | 5 | 9 | 3 | 12 | | |
| | | | | | | | Reorder | 0 | 9 | 3 | 12 | | |
| 6 | Raytheon, Indianapolis, IN | 41 | 600 | 1000 | | 4 | Initial | 5 | 9 | 3 | 12 | | |
| | | | | | | | Reorder | 0 | 9 | 3 | 12 | | |
| 7 | BAE, Phoenix, AZ | 10 | 60 | 250 | | | Initial | 6 | 4 | 4 | 8 | | |
| | | | | | | | Reorder | 0 | 2 | 2 | 4 | | |
| 8 | U.S. Divers Co Inc, Vista, CA | 30 | 100 | 150 | | 5 | Initial | 6 | 4 | 4 | 8 | | |
| | | | | | | | Reorder | 0 | 2 | 2 | 4 | | |
| 9 | EFW Inc., Ft. Worth, TX | 50 | 104 | 120 | | | Initial | 6 | 4 | 4 | 8 | | |
| | | | | | | | Reorder | 0 | 2 | 2 | 4 | | |

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|-------------------|--|--|--|--|
| FY 09 / 10 BUDGET PRODUCTION SCHEDULE | | | | | | | | | | | | | | | P-1 ITEM NOMENCLATURE AIRCREW INTEGRATED SYSTEMS (AZ3110) | | | | | | | | | | Date: May 2009 | | | | |
|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|-------------------|--|--|--|--|

| COST ELEMENTS | | | | | Fiscal Year 09 | | | | | | | | | | | | | Fiscal Year 10 | | | | | | | | | | | | | Later | | | | | | |
|-----------------------------------|-------|------------------|----------------------|-------------------------------|------------------------------|------------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|----------------|------------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|----|-------|----|----|-----|----|-----|---|
| M F R | FY | S E R V | PROC QTY Units | ACCEP PRIOR TO 1 OCT | BAL DUE AS OF 1 OCT | Calendar Year 09 | | | | | | | | | | | | | Calendar Year 10 | | | | | | | | | | | | | | | | | | |
| | | | | | | O C T | N O V | D E C | J A N | F E B | M A R | A P R | M A Y | J U N | J U L | A U G | S E P | O C T | N O V | D E C | J A N | F E B | M A R | A P R | M A Y | J U N | J U L | A U G | S E P | | | | | | | | |
| 1 | FY 08 | A | 500 | 0 | 500 | 41 | 41 | 41 | 41 | 42 | 42 | 42 | 42 | 42 | 42 | 42 | | | | | | | | | | | | | | | | | | | | | 0 |
| 1 | FY 09 | A | 500 | 0 | 500 | | | A | | | 41 | 41 | 41 | 41 | 42 | 42 | 42 | 42 | 42 | 42 | 42 | 42 | 42 | 42 | 42 | 42 | 42 | 42 | | | | | | | | 0 | |
| Acft Wireless Intercom Sys (AWIS) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4 | FY 08 | A | 78 | 0 | 78 | 6 | 6 | 6 | 6 | 6 | 6 | 7 | 7 | 7 | 7 | 7 | | | | | | | | | | | | | | | | | | | 0 | | |
| 4 | FY 09 | A | 12 | 0 | 12 | | | | | | | | | A | | | 12 | | | | | | | | | | | | | | | | | | 0 | | |
| 4 | FY 10 | A | 136 | 0 | 136 | | | | | | | | | | | | | | | | | | | | | | | | | | | A | | 136 | | | |
| AWIS A Kits | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | FY 08 | A | 24 | 0 | 24 | 12 | 12 | | | | | | | | | | | | | | | | | | | | | | | | | | | | 0 | | |
| 1 | FY 09 | A | 15 | 0 | 15 | | | A | | | 15 | | | | | | | | | | | | | | | | | | | | | | | | 0 | | |
| Airframe Kits | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | FY 10 | A | 904 | 0 | 904 | | | | | | | | | | | | | | | | | | | | A | | | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 379 | |
| CABS A Kits | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | FY 08 | A | 40 | 0 | 40 | 10 | 10 | 10 | 10 | | | | | | | | | | | | | | | | | | | | | | | | | | 0 | | |
| 1 | FY 09 | A | 15 | 0 | 15 | | | | | | | | | A | | | 15 | | | | | | | | | | | | | | | | | | 0 | | |
| CABS B Kits | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 7 | FY 08 | A | 40 | 0 | 40 | | | 10 | 10 | 10 | 10 | | | | | | | | | | | | | | | | | | | | | | | | 0 | | |

| M F R | Name - Location | PRODUCTION RATES | | | Reached D+ | MFR | ADMIN LEAD TIME | | MFR After 1 Oct | TOTAL After 1 Oct | REMARKS |
|-------------|---|------------------|-------|------|---------------|-----|-----------------|-------------|--------------------|----------------------|---------|
| | | MIN | 1-8-5 | MAX | | | Prior 1 Oct | After 1 Oct | | | |
| | | | | | | | | | | | |
| 1 | Westwind Corporation, Huntsville, AL | 50 | 400 | 1500 | | 1 | 5 | 9 | 3 | 12 | |
| | | | | | | | 0 | 2 | 3 | 5 | |
| 2 | Carleton Technologies, Inc., Orchard Park, NY | 84 | 2000 | 4000 | | 2 | 4 | 2 | 3 | 5 | |
| 3 | JVYS, Huntsville, AL | 41 | 600 | 1000 | | | 0 | 2 | 3 | 5 | |
| 4 | Telephonics, Farmingdale, NY | 6 | 250 | 500 | | 3 | 5 | 4 | 4 | 8 | |
| 5 | CONAX, St. Petersburg, FL | 83 | 300 | 1000 | | | 0 | 2 | 4 | 6 | |
| 6 | Raytheon, Indianapolis, IN | 41 | 600 | 1000 | | 4 | 5 | 9 | 3 | 12 | |
| 7 | BAE, Phoenix, AZ | 10 | 60 | 250 | | | 0 | 9 | 3 | 12 | |
| 8 | U.S. Divers Co Inc, Vista, CA | 30 | 100 | 150 | | 5 | 6 | 4 | 4 | 8 | |
| 9 | EFW Inc., Ft. Worth, TX | 50 | 104 | 120 | | | 0 | 2 | 2 | 4 | |

| FY 09 / 10 BUDGET PRODUCTION SCHEDULE | | | | | | | | | | P-1 ITEM NOMENCLATURE AIRCREW INTEGRATED SYSTEMS (AZ3110) | | | | | | | | | | Date: May 2009 | | | | | | | | | | | | | | | | | | |
|---|-------|------------------|----------------------|-------------------------------|------------------------------|------------------|-------------|-------------|-------------|--|-------------|-------------|-------------|-------------|-------------|------------------|-------------|-------------|-------------|-------------------|-------------|-------------|-------------|-------------|-------------|-------|-------------|-------------|-------------|-------------|--|--|--|--|---|--|---|---|
| COST ELEMENTS | | | | | | Fiscal Year 09 | | | | | | | | | | Fiscal Year 10 | | | | | | | | | | Later | | | | | | | | | | | | |
| M F R | FY | S E R V | PROC QTY Units | ACCEP PRIOR TO 1 OCT | BAL DUE AS OF 1 OCT | Calendar Year 09 | | | | | | | | | | Calendar Year 10 | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | O C T | N O V | D E C | J A N | F E B | M A R | A P R | M A Y | J U N | J U L | A U G | S E P | O C T | N O V | D E C | J A N | F E B | M A R | A P R | M A Y | | J U N | J U L | A U G | S E P | | | | | | | | |
| 7 | FY 09 | A | 15 | 0 | 15 | | | A | | | 15 | | | | | | | | | | | | | | | | | | | | | | | | | | | 0 |
| CABS B-Kit Retrofit | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 7 | FY 08 | A | 50 | 40 | 10 | 10 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 0 | |
| 7 | FY 09 | A | 312 | 0 | 312 | | | | | | | A | 26 | 26 | 26 | 26 | 26 | 26 | 26 | 26 | 26 | 26 | 26 | 26 | 26 | 26 | 26 | 26 | | | | | | | 0 | | | |
| PRSE Platform Modifications | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 10 | FY 09 | A | 2 | 0 | 2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 2 | |
| Portable Helicopter Oxygen Delivey Syst | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 8 | FY 09 | A | 116 | 0 | 116 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 0 | |
| Hydration System | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 10 | FY 09 | A | 2740 | 0 | 2740 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 0 | |
| Integrated Survival Kit | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 10 | FY 09 | A | 2742 | 0 | 2742 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 0 | |
| Helmet Hear Through System | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 10 | FY 09 | A | 7700 | 0 | 7700 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 0 | |
| Flat Panel Display | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 9 | FY 10 | A | 1240 | 0 | 1240 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 0 | |

| M F R | Name - Location | PRODUCTION RATES | | | Reached D+ | MFR | ADMIN LEAD TIME | | MFR After 1 Oct | TOTAL After 1 Oct | REMARKS | |
|-------------|---|------------------|---------|------|---------------|-----|-----------------|-------------|--------------------|----------------------|---------|--|
| | | MIN | 1-8-5 | MAX | | | Prior 1 Oct | After 1 Oct | | | | |
| | | 1 | Initial | 5 | | | 9 | 3 | 12 | | | |
| 1 | Westwind Corporation, Huntsville, AL | 50 | 400 | 1500 | | 1 | Initial | 5 | 9 | 3 | 12 | |
| | | | | | | | Reorder | 0 | 2 | 3 | 5 | |
| 2 | Carleton Technologies, Inc., Orchard Park, NY | 84 | 2000 | 4000 | | 2 | Initial | 4 | 2 | 3 | 5 | |
| | | | | | | | Reorder | 0 | 2 | 3 | 5 | |
| 3 | JVYS, Huntsville, AL | 41 | 600 | 1000 | | 3 | Initial | 5 | 4 | 4 | 8 | |
| | | | | | | | Reorder | 0 | 2 | 4 | 6 | |
| 4 | Telephonics, Farmingdale, NY | 6 | 250 | 500 | | 4 | Initial | 5 | 9 | 3 | 12 | |
| | | | | | | | Reorder | 0 | 9 | 3 | 12 | |
| 5 | CONAX, St. Petersburg, FL | 83 | 300 | 1000 | | 5 | Initial | 6 | 4 | 4 | 8 | |
| | | | | | | | Reorder | 0 | 2 | 2 | 4 | |
| 6 | Raytheon, Indianapolis, IN | 41 | 600 | 1000 | | | Initial | 5 | 9 | 3 | 12 | |
| | | | | | | | Reorder | 0 | 9 | 3 | 12 | |
| 7 | BAE, Phoenix, AZ | 10 | 60 | 250 | | | Initial | 6 | 4 | 4 | 8 | |
| | | | | | | | Reorder | 0 | 2 | 2 | 4 | |
| 8 | U.S. Divers Co Inc, Vista, CA | 30 | 100 | 150 | | | Initial | 6 | 4 | 4 | 8 | |
| | | | | | | | Reorder | 0 | 2 | 2 | 4 | |
| 9 | EFW Inc., Ft. Worth, TX | 50 | 104 | 120 | | | Initial | 6 | 4 | 4 | 8 | |
| | | | | | | | Reorder | 0 | 2 | 2 | 4 | |

FY 09 / 10 BUDGET PRODUCTION SCHEDULE

P-1 ITEM NOMENCLATURE
AIRCREW INTEGRATED SYSTEMS (AZ3110)

Date: May 2009

| COST ELEMENTS | | | | | | Fiscal Year 09 | | | | | | | | | | | | | | Fiscal Year 10 | | | | | | | | | | | | | | Later |
|---------------|----|------|----------------|----------------------|---------------------|------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------------------|-----|-----|------|------|------|------|------|------|------|-------|--|--|--|-------|
| MFR | FY | SERV | PROC QTY Units | ACCEP PRIOR TO 1 OCT | BAL DUE AS OF 1 OCT | Calendar Year 09 | | | | | | | | | | | | | | Calendar Year 10 | | | | | | | | | | | | | | |
| | | | | | | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | | | | | |
| Total | | | | | 29750 | 943 | 933 | 900 | 900 | 452 | 450 | 389 | 390 | 416 | 417 | 418 | 525 | 503 | 476 | 476 | 476 | 382 | 1026 | 1189 | 1189 | 1657 | 1657 | 1660 | 1513 | 10413 | | | | |
| | | | | | | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | | | | | |

| MFR | Name - Location | PRODUCTION RATES | | | Reached D+ | MFR | ADMIN LEAD TIME | | MFR After 1 Oct | TOTAL After 1 Oct | REMARKS |
|-----|---|------------------|--------------------------------------|------|------------|---------|-----------------|-------------|-----------------|-------------------|---------|
| | | MIN | 1-8-5 | MAX | | | Prior 1 Oct | After 1 Oct | | | |
| | | 1 | Westwind Corporation, Huntsville, AL | 50 | | | 400 | 1500 | 1 | Initial | |
| | | | | | | Reorder | 0 | 2 | 3 | 5 | |
| 2 | Carleton Technologies, Inc., Orchard Park, NY | 84 | 2000 | 4000 | 2 | Initial | 4 | 2 | 3 | 5 | |
| | | | | | | Reorder | 0 | 2 | 3 | 5 | |
| 3 | JVYS, Huntsville, AL | 41 | 600 | 1000 | 3 | Initial | 5 | 4 | 4 | 8 | |
| | | | | | | Reorder | 0 | 2 | 4 | 6 | |
| 4 | Telephonics, Farmingdale, NY | 6 | 250 | 500 | 4 | Initial | 5 | 9 | 3 | 12 | |
| | | | | | | Reorder | 0 | 9 | 3 | 12 | |
| 5 | CONAX, St. Petersburg, FL | 83 | 300 | 1000 | 5 | Initial | 6 | 4 | 4 | 8 | |
| | | | | | | Reorder | 0 | 2 | 2 | 4 | |
| 6 | Raytheon, Indianapolis, IN | 41 | 600 | 1000 | | Initial | 5 | 9 | 3 | 12 | |
| | | | | | | Reorder | 0 | 9 | 3 | 12 | |
| 7 | BAE, Phoenix, AZ | 10 | 60 | 250 | | Initial | 6 | 4 | 4 | 8 | |
| | | | | | | Reorder | 0 | 2 | 2 | 4 | |
| 8 | U.S. Divers Co Inc, Vista, CA | 30 | 100 | 150 | | Initial | 6 | 4 | 4 | 8 | |
| | | | | | | Reorder | 0 | 2 | 2 | 4 | |
| 9 | EFW Inc., Ft. Worth, TX | 50 | 104 | 120 | | Initial | 6 | 4 | 4 | 8 | |
| | | | | | | Reorder | 0 | 2 | 2 | 4 | |

| | | |
|--|--|-------------------|
| FY 11 / 12 BUDGET PRODUCTION SCHEDULE | P-1 ITEM NOMENCLATURE AIRCREW INTEGRATED SYSTEMS (AZ3110) | Date: May 2009 |
|--|--|-------------------|

| COST ELEMENTS | | | | | Fiscal Year 11 | | | | | | | | | | | | Fiscal Year 12 | | | | | | | | | | | | Later | |
|--|-------|------------------|----------------------|-------------------------------|------------------------------|------------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|----------------|------------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| M F R | FY | S E R V | PROC QTY Units | ACCEP PRIOR TO 1 OCT | BAL DUE AS OF 1 OCT | Calendar Year 11 | | | | | | | | | | | | Calendar Year 12 | | | | | | | | | | | | |
| | | | | | | O C T | N O V | D E C | J A N | F E B | M A R | A P R | M A Y | J U N | J U L | A U G | S E P | O C T | N O V | D E C | J A N | F E B | M A R | A P R | M A Y | J U N | J U L | A U G | | S E P |
| Air Warrior Block 1 Ensembles | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 11 | FY 08 | A | 7998 | 7998 | | | | | | | | | | | | | | | | | | | | | | | | | 0 | |
| 5 | FY 09 | A | 2745 | 2745 | | | | | | | | | | | | | | | | | | | | | | | | | 0 | |
| 5 | FY 10 | A | 1623 | 1080 | 543 | 135 | 136 | 136 | 136 | | | | | | | | | | | | | | | | | | | | 0 | |
| Air Warrior A Kits | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | FY 08 | A | 62 | 62 | | | | | | | | | | | | | | | | | | | | | | | | | 0 | |
| 1 | FY 09 | A | 366 | 366 | | | | | | | | | | | | | | | | | | | | | | | | | 0 | |
| Air Warrior Microclimate Cooling Units | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | FY 08 | A | 1246 | 1246 | | | | | | | | | | | | | | | | | | | | | | | | | 0 | |
| 10 | FY 09 | A | 1278 | 1278 | | | | | | | | | | | | | | | | | | | | | | | | | 0 | |
| 10 | FY 10 | A | 1974 | 984 | 990 | 165 | 165 | 165 | 165 | 165 | 165 | | | | | | | | | | | | | | | | | | 0 | |
| Electronic Data Mgr (EDM) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3 | FY 08 | A | 745 | 745 | | | | | | | | | | | | | | | | | | | | | | | | | 0 | |
| 6 | FY 09 | A | 500 | 500 | | | | | | | | | | | | | | | | | | | | | | | | | 0 | |
| 6 | FY 10 | A | 500 | 248 | 252 | 42 | 42 | 42 | 42 | 42 | 42 | | | | | | | | | | | | | | | | | | 0 | |
| EDM A Kits | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | O C T | N O V | D E C | J A N | F E B | M A R | A P R | M A Y | J U N | J U L | A U G | S E P | O C T | N O V | D E C | J A N | F E B | M A R | A P R | M A Y | J U N | J U L | A U G | S E P | |

| M F R | Name - Location | PRODUCTION RATES | | | Reached D+ | MFR | ADMIN LEAD TIME | | MFR After 1 Oct | TOTAL After 1 Oct | REMARKS | |
|-------------|---|------------------|-------|------|---------------|-----|-----------------|---------|--------------------|----------------------|---------|-------------|
| | | MIN | 1-8-5 | MAX | | | 1 | Initial | | | | After 1 Oct |
| | | | | | | | | | | | | |
| 1 | Westwind Corporation, Huntsville, AL | 50 | 400 | 1500 | | 1 | Initial | 5 | 9 | 3 | 12 | |
| | | | | | | | Reorder | 0 | 2 | 3 | 5 | |
| 2 | Carleton Technologies, Inc., Orchard Park, NY | 84 | 2000 | 4000 | | 2 | Initial | 4 | 2 | 3 | 5 | |
| | | | | | | | Reorder | 0 | 2 | 3 | 5 | |
| 3 | JVYS, Huntsville, AL | 41 | 600 | 1000 | | | Initial | 5 | 4 | 4 | 8 | |
| | | | | | | | Reorder | 0 | 2 | 4 | 6 | |
| 4 | Telephonics, Farmingdale, NY | 6 | 250 | 500 | | 3 | Initial | 5 | 4 | 4 | 8 | |
| | | | | | | | Reorder | 0 | 2 | 4 | 6 | |
| 5 | CONAX, St. Petersburg, FL | 83 | 300 | 1000 | | | Initial | 5 | 9 | 3 | 12 | |
| | | | | | | | Reorder | 0 | 9 | 3 | 12 | |
| 6 | Raytheon, Indianapolis, IN | 41 | 600 | 1000 | | 4 | Initial | 5 | 9 | 3 | 12 | |
| | | | | | | | Reorder | 0 | 9 | 3 | 12 | |
| 7 | BAE, Phoenix, AZ | 10 | 60 | 250 | | | Initial | 6 | 4 | 4 | 8 | |
| | | | | | | | Reorder | 0 | 2 | 2 | 4 | |
| 8 | U.S. Divers Co Inc, Vista, CA | 30 | 100 | 150 | | 5 | Initial | 6 | 4 | 4 | 8 | |
| | | | | | | | Reorder | 0 | 2 | 2 | 4 | |
| 9 | EFW Inc., Ft. Worth, TX | 50 | 104 | 120 | | | Initial | 6 | 4 | 4 | 8 | |
| | | | | | | | Reorder | 0 | 2 | 2 | 4 | |

| | | |
|--|--|-------------------|
| FY 11 / 12 BUDGET PRODUCTION SCHEDULE | P-1 ITEM NOMENCLATURE AIRCREW INTEGRATED SYSTEMS (AZ3110) | Date: May 2009 |
|--|--|-------------------|

| COST ELEMENTS | | | | | Fiscal Year 11 | | | | | | | | | | | | Fiscal Year 12 | | | | | | | | | | | | Later | | | | | |
|-----------------------------------|-------|---------|-------------------|-------------------------|------------------------|------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------------|------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--|--|---|---|
| MFR | FY | S E R V | PROC QTY Units | ACCEP PRIOR TO 1 OCT | BAL DUE AS OF 1 OCT | Calendar Year 11 | | | | | | | | | | | | Calendar Year 12 | | | | | | | | | | | | | | | | |
| | | | | | | O C T | N O V | D E C | J A N | F E B | M A R | A P R | M A Y | J U N | J U L | A U G | S E P | O C T | N O V | D E C | J A N | F E B | M A R | A P R | M A Y | J U N | J U L | A U G | | S E P | | | | |
| 1 | FY 08 | A | 500 | 500 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 0 |
| 1 | FY 09 | A | 500 | 500 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 0 | |
| Acft Wireless Intercom Sys (AWIS) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4 | FY 08 | A | 78 | 78 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 0 | |
| 4 | FY 09 | A | 12 | 12 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 0 | |
| 4 | FY 10 | A | 136 | 0 | 136 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 12 | 12 | 12 | 12 | | | | | | | | | | | | | | | | 0 | |
| AWIS A Kits | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | FY 08 | A | 24 | 24 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 0 | |
| 1 | FY 09 | A | 15 | 15 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 0 | |
| Airframe Kits | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | FY 10 | A | 904 | 525 | 379 | 75 | 76 | 76 | 76 | 76 | | | | | | | | | | | | | | | | | | | | | | | 0 | |
| CABS A Kits | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | FY 08 | A | 40 | 40 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 0 | |
| 1 | FY 09 | A | 15 | 15 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 0 | |
| CABS B Kits | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 7 | FY 08 | A | 40 | 40 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 0 | |

| MFR | Name - Location | PRODUCTION RATES | | | Reached D+ | MFR | | ADMIN LEAD TIME | | MFR After 1 Oct | TOTAL After 1 Oct | REMARKS |
|-----|---|------------------|---------|------|------------|-----|---------|-----------------|-------------|-----------------|-------------------|---------|
| | | MIN | 1-8-5 | MAX | | | | Prior 1 Oct | After 1 Oct | | | |
| | | 1 | Initial | 5 | | | | 9 | 3 | 12 | | |
| 1 | Westwind Corporation, Huntsville, AL | 50 | 400 | 1500 | | 1 | Initial | 5 | 9 | 3 | 12 | |
| | | | | | | | Reorder | 0 | 2 | 3 | 5 | |
| 2 | Carleton Technologies, Inc., Orchard Park, NY | 84 | 2000 | 4000 | | 2 | Initial | 4 | 2 | 3 | 5 | |
| | | | | | | | Reorder | 0 | 2 | 3 | 5 | |
| 3 | JVYS, Huntsville, AL | 41 | 600 | 1000 | | | Initial | 5 | 4 | 4 | 8 | |
| | | | | | | | Reorder | 0 | 2 | 4 | 6 | |
| 4 | Telephonics, Farmingdale, NY | 6 | 250 | 500 | | 3 | Initial | 5 | 4 | 4 | 8 | |
| | | | | | | | Reorder | 0 | 2 | 4 | 6 | |
| 5 | CONAX, St. Petersburg, FL | 83 | 300 | 1000 | | | Initial | 5 | 9 | 3 | 12 | |
| | | | | | | | Reorder | 0 | 9 | 3 | 12 | |
| 6 | Raytheon, Indianapolis, IN | 41 | 600 | 1000 | | 4 | Initial | 5 | 9 | 3 | 12 | |
| | | | | | | | Reorder | 0 | 9 | 3 | 12 | |
| 7 | BAE, Phoenix, AZ | 10 | 60 | 250 | | | Initial | 6 | 4 | 4 | 8 | |
| | | | | | | | Reorder | 0 | 2 | 2 | 4 | |
| 8 | U.S. Divers Co Inc, Vista, CA | 30 | 100 | 150 | | 5 | Initial | 6 | 4 | 4 | 8 | |
| | | | | | | | Reorder | 0 | 2 | 2 | 4 | |
| 9 | EFW Inc., Ft. Worth, TX | 50 | 104 | 120 | | | Initial | 6 | 4 | 4 | 8 | |
| | | | | | | | Reorder | 0 | 2 | 2 | 4 | |

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|-------------------|--|--|--|
| FY 11 / 12 BUDGET PRODUCTION SCHEDULE | | | | | | | | | | | | P-1 ITEM NOMENCLATURE AIRCREW INTEGRATED SYSTEMS (AZ3110) | | | | | | | | | | Date: May 2009 | | | |
|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|-------------------|--|--|--|

| COST ELEMENTS | | | | | Fiscal Year 11 | | | | | | | | | | Fiscal Year 12 | | | | | | | | | | Later | | | | |
|---|-------|------------------|----------------------|-------------------------------|------------------------------|------------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|----------------|------------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------|-------------|-------------|-------------|-------------|
| M F R | FY | S E R V | PROC QTY Units | ACCEP PRIOR TO 1 OCT | BAL DUE AS OF 1 OCT | Calendar Year 11 | | | | | | | | | | Calendar Year 12 | | | | | | | | | | | | | |
| | | | | | | O C T | N O V | D E C | J A N | F E B | M A R | A P R | M A Y | J U N | J U L | A U G | S E P | O C T | N O V | D E C | J A N | F E B | M A R | A P R | | M A Y | J U N | J U L | A U G |
| 7 | FY 09 | A | 15 | 15 | | | | | | | | | | | | | | | | | | | | | | | | | 0 |
| CABS B-Kit Retrofit | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 7 | FY 08 | A | 50 | 50 | | | | | | | | | | | | | | | | | | | | | | | | | 0 |
| 7 | FY 09 | A | 312 | 312 | | | | | | | | | | | | | | | | | | | | | | | | | 0 |
| PRSE Platform Modifications | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 10 | FY 09 | A | 2 | 0 | 2 | | | | | | 2 | | | | | | | | | | | | | | | | | | 0 |
| Portable Helicopter Oxygen Delivey Syst | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 8 | FY 09 | A | 116 | 116 | | | | | | | | | | | | | | | | | | | | | | | | | 0 |
| Hydration System | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 10 | FY 09 | A | 2740 | 912 | 1828 | 228 | 228 | 228 | 228 | 229 | 229 | 229 | 229 | | | | | | | | | | | | | | | | 0 |
| Integrated Survival Kit | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 10 | FY 09 | A | 2742 | 912 | 1830 | 228 | 228 | 229 | 229 | 229 | 229 | 229 | 229 | | | | | | | | | | | | | | | | 0 |
| Helmet Hear Through System | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 10 | FY 09 | A | 7700 | 4487 | 3213 | 642 | 642 | 643 | 643 | 643 | | | | | | | | | | | | | | | | | | | 0 |
| Flat Panel Display | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 9 | FY 10 | A | 1240 | 0 | 1240 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 104 | 104 | 104 | 104 | | | | | | | | | | | | 0 |

| M F R | Name - Location | PRODUCTION RATES | | | Reached D+ | MFR | ADMIN LEAD TIME | | MFR After 1 Oct | TOTAL After 1 Oct | REMARKS | |
|-------------|---|------------------|-------|------|---------------|-----|-----------------|-------------|--------------------|----------------------|---------|---|
| | | MIN | 1-8-5 | MAX | | | Prior 1 Oct | After 1 Oct | | | | |
| | | 1 | | 2 | | | 3 | | 4 | | | 5 |
| 1 | Westwind Corporation, Huntsville, AL | 50 | 400 | 1500 | | 1 | Initial | 5 | 9 | 3 | 12 | |
| | | | | | | 1 | Reorder | 0 | 2 | 3 | 5 | |
| 2 | Carleton Technologies, Inc., Orchard Park, NY | 84 | 2000 | 4000 | | 2 | Initial | 4 | 2 | 3 | 5 | |
| | | | | | | 2 | Reorder | 0 | 2 | 3 | 5 | |
| 3 | JVYS, Huntsville, AL | 41 | 600 | 1000 | | | Initial | 5 | 4 | 4 | 8 | |
| | | | | | | 3 | Reorder | 0 | 2 | 4 | 6 | |
| 4 | Telephonics, Farmingdale, NY | 6 | 250 | 500 | | | Initial | 5 | 9 | 3 | 12 | |
| | | | | | | 4 | Reorder | 0 | 9 | 3 | 12 | |
| 5 | CONAX, St. Petersburg, FL | 83 | 300 | 1000 | | | Initial | 6 | 4 | 4 | 8 | |
| | | | | | | 5 | Reorder | 0 | 2 | 2 | 4 | |
| 6 | Raytheon, Indianapolis, IN | 41 | 600 | 1000 | | | Initial | 5 | 9 | 3 | 12 | |
| | | | | | | 4 | Reorder | 0 | 9 | 3 | 12 | |
| 7 | BAE, Phoenix, AZ | 10 | 60 | 250 | | | Initial | 6 | 4 | 4 | 8 | |
| | | | | | | 5 | Reorder | 0 | 2 | 2 | 4 | |

| | | | | | | |
|---|-------------|---------|---|---|-------------|----------------|
| Exhibit P-40, Budget Item Justification Sheet | | | | | | Date: May 2009 |
| Appropriation / Budget Activity / Serial No: Aircraft Procurement, Army / 4 / Support equipment and facilities | | | | P-1 Item Nomenclature AIR TRAFFIC CONTROL (AA0050) | | |
| Program Elements for Code B Items: | | Code: | Other Related Program Elements: 0604633A/586 Air Traffic Control | | | |
| | Prior Years | FY 2008 | FY 2009 | FY 2010 | To Complete | Total Prog |
| Proc Qty | | | | | | |
| Gross Cost | 591.2 | 110.9 | 122.4 | 77.0 | | 901.5 |
| Less PY Adv Proc | | | | | | |
| Plus CY Adv Proc | | | | | | |
| Net Proc P1 | 591.2 | 110.9 | 122.4 | 77.0 | | 901.5 |
| Initial Spares | | | | | | |
| Total Proc Cost | 591.2 | 110.9 | 122.4 | 77.0 | | 901.5 |
| Flyaway U/C | | | | | | |
| Weapon System Proc U/C | | | | | | |
| Description: Tactical Air Traffic Control (ATC) equipment includes Air Traffic Navigation Integration and Coordination System (ATNAVICs), ATNAVICs Environmental Dome, Tactical Airspace Integration System (TAIS), ATNAVICs/TAIS Air Picture Integration, TAIS Airspace Workstation (AWS), Advanced Fusion Tracking System (AFTS), Multifunctional Information Distribution System (MIDS), and Tactical Terminal Control System (TTCS). ATNAVICs provides all weather instrument flight capabilities to include enroute, terminal, radar precision approach and landing services to all Army, Joint, and allied aircraft. ATNAVICs Environmental Dome provides semi-permanent protective shelter for radar under extreme heat and sand environment. ATNAVICs/TAIS Air Picture Integration provides data port out of ATNAVICs to feed the radar picture to TAIS. TAIS is a highly mobile, airspace synchronization and deconfliction system providing Airspace Command and Control (AC2) and Air Traffic Services (ATS) capabilities at the Combat Aviation Brigade, Division and Corps. TAIS AWS provides for AC2 planning and execution at the Brigade Combat Team (BCT) and above. It is the Army's link to the Theater Battle Management Core System (TBMCS) for Joint Airspace Management. TAIS and TAIS AWS provide an automated AC2 and ATS capability for current requirements and Battle Command interfaces. ATNAVICs and TAIS serve as effective risk management tools for aviation safety during night, inclement weather, and combat operations. AFTS for TAIS provides a fused air picture below the coordinating altitude. TAIS MIDS provides Link 16 UHF Comms capability with the convergence of networked sensors and weapons. TAIS will evolve Airspace Integration Improvements Initiatives (AI3) capabilities including the Dynamic Airspace Collaboration Tool (DACT). TTCS provides enhanced ATS communications support to aviation assets conducting reconnaissance, maneuver, medical evacuation, logistics, and intelligence operations across the battlefield. Fixed Base ATC requirements will be met through a vast array of high technology solutions resulting in highly reliable and safe ATC systems in accordance with the Joint DoD/Federal Aviation Administration (FAA) program to modernize the National Airspace System (NAS), Next Gen. This includes upgrading and automating the complete infrastructure, systematically replacing antiquated analog systems (radars and communications switching system) with installation of state of the art digital technology. These systems include Department of Defense (DoD) Advanced Automation System (DAAS), Digital Airport Surveillance Radar (DASR), and navigational control aids which consist of Instrument Landing System (ILS), Voice Recorder Replacement Program (VRRP), Army Airfield Automation System (AAAS), and Radio and Antenna replacement program. Fixed Base Precision Approach Radar (FBPAR) is the Army's primary ground controlled precision approach capability to provide recovery operations for aircraft to fixed base airfields during adverse weather conditions. | | | | | | |
| Justification: FY 10 Base Funding in the amount of \$77 million will procure tactical and fixed base ATC systems and modifications to systems. Funds for tactical ATC systems provide for upgrades and modifications to TAIS, ATNAVICs, and TTCS. ATNAVICs upgrades will address joint interoperability and networking capabilities, as well as Information Assurance requirements, increased operating ranges, and integrating the Air Defense Interrogator to interrogate both Mode S and Mode 5 equipped aircraft. These enhancements will allow the ATNAVICs to transmit critical air | | | | | | |

| | | |
|---|-------|---|
| Exhibit P-40, Budget Item Justification Sheet | | Date: May 2009 |
| Appropriation / Budget Activity / Serial No: Aircraft Procurement, Army / 4 / Support equipment and facilities | | P-1 Item Nomenclature AIR TRAFFIC CONTROL (AA0050) |
| Program Elements for Code B Items: | Code: | Other Related Program Elements: 0604633A/586 Air Traffic Control |
| <p>picture information to TAIS and DOD Command and Control network/systems. TAIS airspace management functions will be modified as web services that will be available throughout the tactical network via a common server to properly credentialed users. TAIS airspace management web services will also support Army Battle Command, ATS, and Airspace Integration Improvements Initiatives (AI3). Current chat messaging capability will be modified to a real time, cross-echelon collaboration capability. TTCS modifications will integrate the TTCS onto an uparmored vehicle in accordance with DA direction for force protection. These modifications to tactical ATC systems ensure Army ATC and Army airspace command and control systems are capable of supporting the path ahead to the Future Force. Fixed base ATC systems (DAAS, DASR, Navigational Control Aids, FBPAR) provide the Army a joint service capability required for the DoD/FAA modernization and upgrade of the NAS via the Next Gen program. These systems will save significant Operational and Support costs by replacing old, obsolete, and antiquated analog radars, switches, and automation systems with new, state of the art, highly reliable ATC systems in towers and approach control facilities. Equipment quantity and configuration is tailored to meet specific site requirements, resulting in varying unit costs. Funding ensures compliance and interoperability between the Army and FAA systems.</p> | | |

| ACFT Cost Elements | | ID CD | FY 08 | | | FY 09 | | | FY 10 | | |
|--|--|----------|---------------|------|-----------|---------------|------|-----------|--------------|------|-----------|
| | | | Total Cost | Qty | Unit Cost | Total Cost | Qty | Unit Cost | Total Cost | Qty | Unit Cost |
| | | | \$000 | Each | \$000 | \$000 | Each | \$000 | \$000 | Each | \$000 |
| Fixed Base Precision Approach Radar | | | | | | 7796 | | | 2078 | | |
| DoD Advanced Automation System (DAAS) | | | 10177 | | | 10876 | | | 5682 | | |
| Digital Airport Surveillance Radar(DASR) | | | 10043 | | | 18847 | | | 18372 | | |
| Tactical Airspace Integration Sys (TAIS) | | | 34512 | | | 34543 | | | 24230 | | |
| Air Traffic Navigation and Integration | | | 37983 | | | 35674 | | | 16910 | | |
| TAIS Airspace Workstation (AWS) | | | 1567 | | | 238 | | | | | |
| Navigational Control Aids | | | 6898 | | | 13586 | | | 6789 | | |
| TTCS Upgrades | | | 9695 | | | 853 | | | 2938 | | |
| Total: | | | 110875 | | | 122413 | | | 76999 | | |

| | | | | | | |
|---|-------------|---------|---|---------|----------------|------------|
| Exhibit P-40, Budget Item Justification Sheet | | | | | Date: May 2009 | |
| Appropriation / Budget Activity / Serial No: Aircraft Procurement, Army / 4 / Support equipment and facilities | | | P-1 Item Nomenclature INDUSTRIAL FACILITIES (AZ3300) | | | |
| Program Elements for Code B Items: | | Code: | Other Related Program Elements: | | | |
| | Prior Years | FY 2008 | FY 2009 | FY 2010 | To Complete | Total Prog |
| Proc Qty | | | | | | |
| Gross Cost | 181.5 | 2.4 | 2.5 | 1.6 | | 187.9 |
| Less PY Adv Proc | | | | | | |
| Plus CY Adv Proc | | | | | | |
| Net Proc P1 | 181.5 | 2.4 | 2.5 | 1.6 | | 187.9 |
| Initial Spares | | | | | | |
| Total Proc Cost | 181.5 | 2.4 | 2.5 | 1.6 | | 187.9 |
| Flyaway U/C | | | | | | |
| Weapon System Proc U/C | | | | | | |
| Description: This program provides funding to the Army Test and Evaluation Command (ATEC), Developmental Test Command (DTC) to establish, modernize, expand or replace test facilities used in production testing of Aircraft and Aircraft components. It sustains Army production test capabilities through upgrade and replacement of instrumentation and equipment that is technologically and/or economically obsolete. Modernization of test instrumentation and equipment provides increased automation and efficiencies, improved data quality and quantity and cost avoidances to Army Program Managers. Programmed funding will be used to upgrade or replace production test instrumentation and equipment at the Aviation Technical Test Center (ATTC), Fort Rucker, AL and Yuma Proving Ground (YPG), Yuma, AZ. Note: Base Realignment and Closure (BRAC) decisions move the ATTC to the Redstone Technical Test Center in Huntsville, AL. All of the instrumentation and equipment to be procured for ATTC will be moved with the Test Center to Huntsville and will be used for Aircraft Testing in the relocation of this mission. | | | | | | |
| Justification: ATEC: At ATTC, FY 2010 procures various types of airborne instrumentation including analog and inertial sensors, Global Positioning System (GPS) receivers, signal conditioning units, data acquisition equipment and cockpit display components used to obtain aircraft performance data. It also funds upgrades to engineering PC based workstations for engineers to use in test data analysis, presentation, and reporting and procurement of calibration and support equipment used to maintain flight test instrumentation. Lastly, it procures instrumentation to stimulate and collect message traffic and message data for aircraft communications testing within actual flight environments. At YPG, FY 2010 procures replacement instrumentation for the time-stamping, on-board recording and telemetering of standard aircraft bus data, analog video from sensors, intercom (voice), and on-board recorders. Funds procure telemetry equipment that can meet the environment performance and data speed requirements needed for production base aviation programs. It will also procure an acoustic or seismic sensor system that will allow the YPG test team to accurately determine impact locations for high rate aerial fired weapon systems, at short and long ranges, during aircraft weapons performance tests. The majority of the instrumentation being upgraded or replaced is obsolete and has met or exceeded its economic life. This instrumentation is required to ensure complete and accurate test data is collected and safety and environmental hazards are minimized. Benefits of this project include increased test efficiencies and decreased costs and risks to Army Program Managers. | | | | | | |

| | | | | | | |
|--|-------------|---------|---------------------------------|---|-------------|----------------|
| Exhibit P-40, Budget Item Justification Sheet | | | | | | Date: May 2009 |
| Appropriation / Budget Activity / Serial No: Aircraft Procurement, Army / 4 / Support equipment and facilities | | | | P-1 Item Nomenclature LAUNCHER, 2.75 ROCKET (A50100) | | |
| Program Elements for Code B Items: | | Code: | Other Related Program Elements: | | | |
| | Prior Years | FY 2008 | FY 2009 | FY 2010 | To Complete | Total Prog |
| Proc Qty | | | | | | |
| Gross Cost | 80.4 | 2.4 | 2.4 | 2.7 | | 87.9 |
| Less PY Adv Proc | | | | | | |
| Plus CY Adv Proc | | | | | | |
| Net Proc P1 | 80.4 | 2.4 | 2.4 | 2.7 | | 87.9 |
| Initial Spares | | | | | | |
| Total Proc Cost | 80.4 | 2.4 | 2.4 | 2.7 | | 87.9 |
| Flyaway U/C | | | | | | |
| Weapon System Proc U/C | | | | | | |
| Description: The M261 19-tube and M260 7-tube rocket launchers are used to fire 2.75 Inch HYDRA 70 rockets from the following platforms: AH-64 Apache, OH-58D Kiowa Warrior, MH-60L Blackhawk, and AH-6J helicopters. The launchers are non-repairable yet durable enough to withstand at least 16 rocket firings per tube before being discarded. The empty weight of the M260 launcher is approximately 35 pounds, and the empty weight of the M261 launcher is approximately 82 pounds. The launcher permits fuze-timing selection from the cockpit and will launch rockets using either the MK 40 or the MK 66 motors. | | | | | | |
| Justification: FY2010 procures both the M260 7-tube rocket launcher for OH-58D Kiowa Warrior and AH-6J helicopters and the M261 19-tube launcher for the AH-64 Apache, MH-60L Blackhawk, and AH-6J helicopters. Procurement replaces launchers expended as a result of annual rocket firings for training and replenishes the limited issuable stockage that has been depleted below levels acceptable to support training and war reserve requirements of Active Army, Special Operations Forces and Reserve Component usage. | | | | | | |

| | | | | | | |
|---|-------------|---------|---|---|-------------|----------------|
| Exhibit P-40, Budget Item Justification Sheet | | | | | | Date: May 2009 |
| Appropriation / Budget Activity / Serial No: Aircraft Procurement, Army / 4 / Support equipment and facilities | | | | P-1 Item Nomenclature AIRBORNE COMMUNICATIONS (AA0705) | | |
| Program Elements for Code B Items: | | Code: | Other Related Program Elements: AA0700 | | | |
| | Prior Years | FY 2008 | FY 2009 | FY 2010 | To Complete | Total Prog |
| Proc Qty | | | | | | |
| Gross Cost | 325.2 | | 21.1 | 11.1 | | 357.5 |
| Less PY Adv Proc | | | | | | |
| Plus CY Adv Proc | | | | | | |
| Net Proc P1 | 325.2 | | 21.1 | 11.1 | | 357.5 |
| Initial Spares | | | | | | |
| Total Proc Cost | 325.2 | | 21.1 | 11.1 | | 357.5 |
| Flyaway U/C | | | | | | |
| Weapon System Proc U/C | | | | | | |
| Description: The AN/ARC-220/VRC-100 High Frequency (HF) Radio Program answers Army Aviation's critical long-standing requirement for a Non-Line of Sight (NLOS) communications capability. The HF radio system allows continuous and reliable secure/non-secure communication between Army aircraft flying Nap-of-the-Earth (NOE) maneuvers and at NLOS distances with Aviation Tactical Operations Centers (TOC) and other Army aircraft. The radio incorporates Automatic Link Establishment (ALE) to eliminate manual searches for workable frequencies reducing pilot workload and enhancing communication connectivity. The AN/ARC-220/VRC-100 also provides a frequency hopping capability and is night vision compatible. The AN/ARC-220 provides a position reporting and data capability enhancing situational awareness and command and control. In FY09, this budget line also includes \$21.0 million of Overseas Contingency Operations (OCO) funds for NLOS systems to support OEF operations. | | | | | | |
| Justification: FY10 base funding in the amount of \$11.1 million will procure 66 VRC-100 Ground Radios in support of the Grow the Army Initiative and 44 AN/ARC-220 radios for the Army Reserve. | | | | | | |

| ACFT Cost Elements | | ID CD | FY 08 | | | FY 09 | | | FY 10 | | |
|-------------------------------------|--|----------|--------------|------|-----------|--------------|------|-----------|--------------|------|-----------|
| | | | Total Cost | Qty | Unit Cost | Total Cost | Qty | Unit Cost | Total Cost | Qty | Unit Cost |
| | | | \$000 | Each | \$000 | \$000 | Each | \$000 | \$000 | Each | \$000 |
| RECURRING COSTS | | | | | | | | | | | |
| A. AN/ARC-220 NOE HF Airborne Radio | | | | | | | | | 3601 | 44 | 82 |
| B. AN/VRC-100 Ground Radio | | | | | | 138 | 2 | 69 | 4645 | 66 | 70 |
| C. Misc Non-LOS Equipment (OCO) | | | | | | 20971 | 147 | 143 | | | |
| D. A-Kits | | | | | | | | | 615 | 44 | 14 |
| E. A-Kit Installation | | | | | | | | | 1414 | 44 | 32 |
| SUBTOTAL | | | | | | 21109 | | | 10275 | | |
| SUPPORT COST | | | | | | | | | | | |
| A. Fielding Support | | | | | | | | | 600 | | |
| B. Program Management | | | | | | | | | 234 | | |
| SUBTOTAL | | | | | | | | | 834 | | |
| Total: | | | | | | 21109 | | | 11109 | | |

| | | | | | | |
|---|-------------|---------|---|---------|----------------|------------|
| Exhibit P-40, Budget Item Justification Sheet | | | | | Date: May 2009 | |
| Appropriation / Budget Activity / Serial No: Aircraft Procurement, Army / 1 / Aircraft | | | P-1 Item Nomenclature C-12 CARGO AIRPLANE (A02700) | | | |
| Program Elements for Code B Items: | | Code: | Other Related Program Elements: | | | |
| | Prior Years | FY 2008 | FY 2009 | FY 2010 | To Complete | Total Prog |
| Proc Qty | | | | 6 | | 6 |
| Gross Cost | | | | 45.0 | | 45.0 |
| Less PY Adv Proc | | | | | | |
| Plus CY Adv Proc | | | | | | |
| Net Proc P1 | | | | 45.0 | | 45.0 |
| Initial Spares | | | | | | |
| Total Proc Cost | | | | 45.0 | | 45.0 |
| Flyaway U/C | | | | | | |
| Weapon System Proc U/C | | | | 7.5 | | 7.5 |
| <p>Description: The budget line covers the acquisition of Army C-12 fixed wing aircraft to support operational requirements. The budget line provides acquisition of new commercial-off-the-shelf, non-developmental aircraft, hardware and associated support, military unique avionics, and aircraft survivability equipment.</p> <p>Justification: FY10 OCO Funding in the amount of \$45 million will procure six C-12W fixed wing aircraft with military unique avionics and aircraft survivability equipment.</p> <p>\$ M FY2010 Active QTY 6 Gross Cost 45</p> | | | | | | |

| Exhibit P-5, Weapon ACFT Cost Analysis | | Appropriation/Budget Activity/Serial No: Aircraft Procurement, Army / 1 / Aircraft | | | P-1 Line Item Nomenclature: C-12 CARGO AIRPLANE (A02700) | | | Weapon System Type: | | Date: May 2009 | |
|---|--|---|--------------|------|---|--------------|------|---------------------|--------------|-------------------|-----------|
| ACFT Cost Elements | | ID CD | FY 08 | | | FY 09 | | | FY 10 | | |
| | | | Total Cost | Qty | Unit Cost | Total Cost | Qty | Unit Cost | Total Cost | Qty | Unit Cost |
| | | | \$000 | Each | \$000 | \$000 | Each | \$000 | \$000 | Each | \$000 |
| C-12W Aircraft | | | | | | | | | | | |
| Hardware and Associated Support | | | | | | | | 38300 | 6 | | 6383 |
| Avionics | | | | | | | | 2700 | | | |
| Other GFE | | | | | | | | 4000 | | | |
| Total: | | | | | | | | 45000 | | | |

Exhibit P-5a, Budget Procurement History and Planning

Date:
May 2009

| | | | | | | | | | | | |
|---|-----------------------------|--------------------------|----------------------|------------|---|----------|-----------------|------------------|------------------|----------------|--|
| Appropriation/Budget Activity/Serial No: Aircraft Procurement, Army/ 1/ Aircraft | | | Weapon System Type: | | P-1 Line Item Nomenclature: C-12 CARGO AIRPLANE (A02700) | | | | | | |
| WBS Cost Elements: | Contractor and Location | Contract Method and Type | Location of PCO | Award Date | Date of First Delivery | QTY Each | Unit Cost \$000 | Specs Avail Now? | Date Revsn Avail | RFP Issue Date | |
| Hardware and Associated Support FY 2010 | Hawker Beech Wichita, KS | SS/FFP | Redstone Arsenal, AL | Apr 10 | Oct 11 | 6 | 6383 | Yes | | Dec 09 | |

REMARKS:

FY 12 / 13 BUDGET PRODUCTION SCHEDULE

P-1 ITEM NOMENCLATURE
C-12 CARGO AIRPLANE (A02700)

Date: May 2009

| COST ELEMENTS | | | | | | Fiscal Year 12 | | | | | | | | | | | | | Fiscal Year 13 | | | | | | | | | | | | | Later | | |
|---------------------------------|-------|---------|---------------|----------------------|---------------------|------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--|--|-------|---|--|
| MFR | FY | S E R V | PROC QTY Each | ACCEP PRIOR TO 1 OCT | BAL DUE AS OF 1 OCT | Calendar Year 12 | | | | | | | | | | | | | Calendar Year 13 | | | | | | | | | | | | | | | |
| | | | | | | O C T | N O V | D E C | J A N | F E B | M A R | A P R | M A Y | J U N | J U L | A U G | S E P | O C T | N O V | D E C | J A N | F E B | M A R | A P R | M A Y | J U N | J U L | A U G | S E P | | | | | |
| Hardware and Associated Support | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | FY 10 | A | 6 | 0 | 6 | 1 | 1 | 1 | | 1 | 1 | 1 | | | | | | | | | | | | | | | | | | | | | 0 | |
| Total | | | | | | 6 | 1 | 1 | 1 | | 1 | 1 | 1 | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | O C T | N O V | D E C | J A N | F E B | M A R | A P R | M A Y | J U N | J U L | A U G | S E P | O C T | N O V | D E C | J A N | F E B | M A R | A P R | M A Y | J U N | J U L | A U G | S E P | | | | | |

| MFR | Name - Location | PRODUCTION RATES | | | Reached D+ | MFR | ADMIN LEAD TIME | | MFR After 1 Oct | TOTAL After 1 Oct | REMARKS |
|-----|-----------------|------------------|---------------------------|-----|------------|---------|-----------------|-------------|-----------------|-------------------|---------|
| | | MIN | 1-8-5 | MAX | | | Prior 1 Oct | After 1 Oct | | | |
| | | 1 | Hawker Beech, Wichita, KS | 1 | | | 4 | 18 | 1 | Initial | |
| | | | | | | Reorder | 0 | 0 | 0 | 0 | |
| | | | | | | Initial | | | | | |
| | | | | | | Reorder | | | | | |
| | | | | | | Initial | | | | | |
| | | | | | | Reorder | | | | | |
| | | | | | | Initial | | | | | |
| | | | | | | Reorder | | | | | |
| | | | | | | Initial | | | | | |
| | | | | | | Reorder | | | | | |

| | | | | | | |
|---|-------------|---------|---|---|-------------|----------------|
| Exhibit P-40, Budget Item Justification Sheet | | | | | | Date: May 2009 |
| Appropriation / Budget Activity / Serial No: Aircraft Procurement, Army / 2 / Modification of aircraft | | | | P-1 Item Nomenclature RQ-7 UAS MODS (A00018) | | |
| Program Elements for Code B Items: | | Code: | Other Related Program Elements: 0305204A-RDT&E, BA0330 (OPA) | | | |
| | Prior Years | FY 2008 | FY 2009 | FY 2010 | To Complete | Total Prog |
| Proc Qty | | | | | | |
| Gross Cost | | | | 609.4 | | 609.4 |
| Less PY Adv Proc | | | | | | |
| Plus CY Adv Proc | | | | | | |
| Net Proc P1 | | | | 609.4 | | 609.4 |
| Initial Spares | | | | | | |
| Total Proc Cost | | | | 609.4 | | 609.4 |
| Flyaway U/C | | | | | | |
| Weapon System Proc U/C | | | | | | |
| Description: | | | | | | |
| <p>The Tactical Unmanned Aerial Systems (TUAS) Shadow 200 provides the Army Brigade Commander with dedicated Reconnaissance, Surveillance and Target Acquisition (RSTA), Intelligence, Battle Damage Assessment (BDA) and Force Protection. The Shadow provides the Brigade Commander with critical battlefield intelligence and targeting information in the rapid cycle time required for success at the tactical level. The TUAS Shadow system air vehicle meets the required operating range of 50 kilometers and remains on station for up to five hours. The baseline fielded payload is electro-optic infrared (EO/IR) with a Laser Designator payload (EO/IR/LD) scheduled for retrofit beginning in FY 2008. Congressionally mandated Tactical Common Data Links is also scheduled for retrofit beginning in FY 2010. Intelligence, Surveillance, and Reconnaissance surge funding purchased both re-wing kits that allow the launch of heavier Shadow Aircraft. The TUAS Shadow system consists of four air vehicles, (each configured with an EO/IR sensor payload), launcher and ground control and support equipment including: power generation, communications equipment, automated recovery equipment, one system remote video terminals (OSRVT), vehicle mounted shelters, and High Mobility Multipurpose Wheeled Vehicles with trailer(s). Each system is equipped with one Maintenance Section Multifunctional (MSM) Vehicle and is supported at the division level by a Mobile Maintenance Facility (MMF). The TUAS Shadow has logged over 360,000 flight hours since June FY 2001 most of which were flown in support of Operation Iraqi Freedom and Operation Enduring Freedom.</p> | | | | | | |
| Justification: | | | | | | |
| <p>FY2010 Base funding in the amount of \$283 million will procure Laser Designators (LD) and retrofits of congressionally-mandated Tactical Common Data Link (TCDL); which includes Universal Ground Control Station (GCS), Universal Ground Data Terminal (UGT) and associated Production Quality Testing.</p> <p>FY2010 OCO funding in the amount of \$326 million will procure Pre-planned Product Improvements (P3I), Contractor Support, Encryption of full motion video enhancements and OGA support.</p> | | | | | | |

| Exhibit P-5, Weapon ACFT Cost Analysis | Appropriation/Budget Activity/Serial No: Aircraft Procurement, Army / 2 / Modification of aircraft | P-1 Line Item Nomenclature: RQ-7 UAS MODS (A00018) | | | Weapon System Type: | Date: May 2009 | | | | |
|--|---|---|-------|-----------|---------------------|-------------------|-----------|------------|-------|-----------|
| ACFT Cost Elements | ID | FY 08 | | | FY 09 | | | FY 10 | | |
| | CD | Total Cost | Qty | Unit Cost | Total Cost | Qty | Unit Cost | Total Cost | Qty | Unit Cost |
| | | \$000 | Units | \$000 | \$000 | Units | \$000 | \$000 | Units | \$000 |
| TACTICAL UNMANNED AERIAL VEHICLE SHADOW | | | | | | | | | | |
| Pre-Planned Product Improvement (P3I) | | | | | | | | | | |
| Contractor Support | | | | | | | | | | |
| Subtotal Prime Contractor System | | | | | | | | | | |
| GFE | | | | | | | | | | |
| Program Management | | | | | | | | | | |
| Other Government Agencies Support | | | | | | | | | | |
| Subtotal Government Cost | | | | | | | | | | |
| SHADOW OCO | | | | | | | | | | |
| Pre-Planned Product Improvement (P3I) | | | | | | | | | | |
| Contractor Support | | | | | | | | | | |
| Encryption | | | | | | | | | | |
| Subtotal Prime Contractor System | | | | | | | | | | |
| GFE | | | | | | | | | | |
| Subtotal Government Cost | | | | | | | | | | |
| Total: | | | | | | | | | | |

Exhibit P-5a, Budget Procurement History and Planning

Date:
May 2009

| | | | | | | | | | | |
|---|-------------------------|--------------------------|---|------------|------------------------|-----------|-----------------|------------------|------------------|----------------|
| Appropriation/Budget Activity/Serial No: Aircraft Procurement, Army/ 2/ Modification of aircraft | | Weapon System Type: | P-1 Line Item Nomenclature: RQ-7 UAS MODS (A00018) | | | | | | | |
| WBS Cost Elements: | Contractor and Location | Contract Method and Type | Location of PCO | Award Date | Date of First Delivery | QTY Units | Unit Cost \$000 | Specs Avail Now? | Date Revsn Avail | RFP Issue Date |
| TACTICAL UNMANNED AERIAL VEHICLE SHADOW FY 2010 | AAI Hunt Valley, MD | SS/FPIF | AMCOM | | | | | Y | NA | NA |

REMARKS: FY 2010 funding for retrofits.

| | | | | | | |
|---|-------------|---------|---------------------------------|--|-------------|-------------------|
| Exhibit P-40, Budget Item Justification Sheet | | | | | | Date: May 2009 |
| Appropriation / Budget Activity / Serial No: Aircraft Procurement, Army / 2 / Modification of aircraft | | | | P-1 Item Nomenclature C-12 AIRCRAFT MODS (A01234) | | |
| Program Elements for Code B Items: | | Code: | Other Related Program Elements: | | | |
| | Prior Years | FY 2008 | FY 2009 | FY 2010 | To Complete | Total Prog |
| Proc Qty | | | | | | |
| Gross Cost | | | | 60.0 | | 60.0 |
| Less PY Adv Proc | | | | | | |
| Plus CY Adv Proc | | | | | | |
| Net Proc P1 | | | | 60.0 | | 60.0 |
| Initial Spares | | | | | | |
| Total Proc Cost | | | | 60.0 | | 60.0 |
| Flyaway U/C | | | | | | |
| Weapon System Proc U/C | | | | | | |
| Description: The C-12 fixed wing aircraft platform hosts a number of Army Intelligence, Surveillance and Reconnaissance/Reconnaissance Surveillance and Target Acquisition (ISR/RSTA) sensor systems that support irregular warfare in Overseas Contingency Operations (OCO). Included in those systems are the Aerial Reconnaissance Multi Sensor (ARMS) (Iraq), the Medium Altitude Reconnaissance and Surveillance Systems (MARSS)(Iraq and Afghanistan), and Constant Hawk (Afghanistan). The ARMS system is composed of B-200 (C-12) aircraft equipped with imagery sensors, specialized COMINT sensors, and an array of line of sight and beyond line of sight communications equipment. The aircraft were fielded to Operation Iraqi Freedom (OIF) in FY06 and have been providing daily support to the (Task Force Observe, Detect Identify, Neutralize (TF ODIN) commander. The MARSS aircraft are primarily King Air 300's (C-12 variant) equipped with numerous sensors to include imagery and communications intelligence (COMINT) payloads. They also include several line-of-sight and beyond line of sight communications systems and on board (manned) processing of the imagery and COMINT. The Enhanced MARSS (EMARSS) program provides six additional MARSS systems based on a King Air 350 Extended Range (ER) aircraft. Constant Hawk (CH) in Afghanistan is hosted on King Air 350(C-12) aircraft. CH is a persistent surveillance wide field of view airborne intelligence, surveillance and reconnaissance (AISR) system conducting Counter Improvised Explosive Device (IED) surveillance and forensic force protection missions. CH uses high resolution Electro Optic (EO) cameras mounted on manned aircraft to provide persistent surveillance of a designated Named Area of Interest (NAI). | | | | | | |
| Justification: FY 10 OCO funding in the amount of \$60.000 million will provide the aircraft modifications and integration efforts necessary to field six (6) EMARSS to provide Line of Sight (LOS) and Beyond Line of Sight (BLOS) communications, and Imagery and Communications Intelligence (IMINT and COMINT) capabilities with real-time data dissemination in Operation Enduring Freedom (OEF) ISR operations. | | | | | | |

| | | | | | | |
|---|----------------|--------------|--|---------|---------------------------------|-------------------|
| Exhibit P-40M, Budget Item Justification Sheet | | | | | | Date: May 2009 |
| Appropriation / Budget Activity / Serial No: Aircraft Procurement, Army / 2 / Modification of aircraft | | | P-1 Item Nomenclature C-12 AIRCRAFT MODS (A01234) | | | |
| Program Elements for Code B Items: | | | | Code: | Other Related Program Elements: | |
| Description | | Fiscal Years | | | | |
| OSIP No. | Classification | 2008 & PR | FY 2009 | FY 2010 | TC | Total |
| Enhanced MARSS (EMARSS) | | | | | | |
| 1-10-00-OCO | U | 0.0 | 0.0 | 60.0 | 0.0 | 60.0 |
| Totals | | 0.0 | 0.0 | 60.0 | 0.0 | 60.0 |

INDIVIDUAL MODIFICATION

Date: May 2009

MODIFICATION TITLE: Enhanced MARSS (EMARSS) [MOD 1] 1-10-00-OCO

MODELS OF SYSTEM AFFECTED: EMARSS 1-6

DESCRIPTION / JUSTIFICATION:

The Enhanced MARSS (EMARSS) aircraft will provide six additional planes to perform ISR operations. These systems will be integrated on a King Air 350 Extended Range (ER) aircraft and include Imagery and Communications Intelligence (COMINT) sensors as well as line of sight and beyond line of sight communications equipment. It will allow for two backseat operators performing COMINT and imagery analysis and real time dissemination of the data from the aircraft. PM ACS will procure and perform NRE on two preliminary platforms; PM Fixed Wing will be procuring the balance of the platforms aircraft via Funding line A02700. PM ACS will fund the integration efforts for all six systems.

DEVELOPMENT STATUS / MAJOR DEVELOPMENT MILESTONE(S):

- . 1QFY10: Contract award for Systems Integrator
- . 4QFY10: Receipt of Initial platforms
- . 1QFY12: Completion of Integration, Testing, and Deployment of first Aircraft

Installation Schedule

| Pr Yr Totals | FY 2009 | | | | FY 2010 | | | | FY 2011 | | | | FY 2012 | | | | FY 2013 | | | |
|-----------------|---------|---|---|---|---------|---|---|---|---------|---|---|---|---------|---|---|---|---------|---|---|---|
| | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 |
| Inputs | | | | | | | | | | | | | | | | | | | | |
| Outputs | | | | | | | | | | | | 1 | 1 | 2 | 2 | 2 | | | | |

| 1 | FY 2014 | | | FY 2015 | | | | FY 2016 | | | | FY 2017 | | | | To Complete | Totals |
|---------|---------|---|---|---------|---|---|---|---------|---|---|---|---------|---|---|---|----------------|--------|
| | 2 | 3 | 4 | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 | | |
| Inputs | | | | | | | | | | | | | | | | | |
| Outputs | | | | | | | | | | | | | | | | | 8 |

METHOD OF IMPLEMENTATION:

ADMINISTRATIVE LEADTIME:

0 months

PRODUCTION LEADTIME: 0 months

Contract Dates:

FY 2010 -

FY 2011 -

FY 2012 -

Delivery Dates:

FY 2010 -

FY 2011 -

FY 2012 -

INDIVIDUAL MODIFICATION

Date: May 2009

MODIFICATION TITLE (cont): Enhanced MARSS (EMARSS) [MOD 1] 1-10-00-OCO

FINANCIAL PLAN: (\$ in Millions)

| | FY 2008 and Prior | | 2009 | | 2010 | | TC | | Total | |
|---------------------------------|----------------------|-----|------|-----|------|------|-----|-----|-------|------|
| | Qty | \$ | Qty | \$ | Qty | \$ | Qty | \$ | Qty | \$ |
| | RDT&E | | | | | | | | | |
| Procurement | | | | | | | | | | |
| Initial NRE Platforms & Mods | | | | | 2 | 21.0 | | | 2 | 21.0 |
| NonRecur Engineering | | | | | | 4.6 | | | | 4.6 |
| Recurring Sensor HW (6 & 1) | | | | | 7 | 15.6 | | | 7 | 15.6 |
| Spt Equipment | | | | | | 1.0 | | | | 1.0 |
| Integration | | | | | 6 | 14.6 | | | 6 | 14.6 |
| Program Mgt Costs | | | | | | 1.5 | | | | 1.5 |
| Fldg & Initial Spt | | | | | | 1.7 | | | | 1.7 |
| Installation of Hardware | | | | | | | | | | |
| FY 2008 & Prior Equip -- Kits | | | | | | | | | | |
| FY 2009 -- Kits | | | | | | | | | | |
| FY 2010 Equip -- Kits | | | | | | | | | | |
| FY 2011 Equip -- Kits | | | | | | | | | | |
| FY 2012 Equip -- Kits | | | | | | | | | | |
| FY 2013 Equip -- Kits | | | | | | | | | | |
| FY 2014 Equip -- Kits | | | | | | | | | | |
| FY 2015 Equip -- Kits | | | | | | | | | | |
| TC Equip- Kits | | | | | | | | | | |
| Total Installment | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 |
| Total Procurement Cost | | 0.0 | | 0.0 | | 60.0 | | 0.0 | | 60.0 |