UNCLASSIFIED
Department of Defense
Fiscal Year (FY) 2022 Budget Estimates
May 2021


Air Force
Justification Book Volume 2 of 2
Aircraft Procurement, Air Force

## Vol-2 Mods

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# UNCLASSIFIED <br> Air Force • Budget Estimates FY 2022 • Procurement 

## Volume 2 Table of Contents

Comptroller Exhibit P-1. Volume 2 - iii
Master Line Item Table of Contents (by Appropriation then Line Number) ..... Volume 2 - xiii
Master Line Item Table of Contents (Alphabetically by Line Item Title) ..... Volume 2-xxi
Exhibit P-1M, Procurement Programs - Modification Summary ..... Volume 2-xxvii
Acronyms ..... Volume 2 - Ixxvii
Exhibit P-40s ..... Volume 2-1

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Department of the Air Force
FY 2022 President's Budget
Exhibit P-1 FY 2022 President's Budget
Total Obligational Authority 05 May 2021 (Dollars in Thousands)

Appropriation
--------------

Aircraft Procurement, Air Force
Missile Procurement, Air Force
Space Procurement, Air Force
Procurement of Ammunition, Air Force
Procurement, Space Force
Other Procurement, Air Force
Total Department of the Air Force

| FY 2020 <br> Actual* | FY 2021 <br> Enacted** | FY 2022 <br> Request |
| :---: | :---: | :---: |
| 17,550,262 | 19,985,491 | 15,727,669 |
| 2,777,558 | 2,365,953 | 2,669,811 |
| 2,353,383 |  |  |
| 2,535,419 | 1,336,461 | 795,168 |
|  | 2,310,994 | 2,766,854 |
| 25,199,603 | 23,796,987 | 25,251,137 |
| 50,416,225 | 49,795,886 | 47,210,639 |

## UNCLASSIFIED

Department of the Air Force
FY 2022 President's Budget
Exhibit P-1 FY 2022 President's Budget
Total Obligational Authority
05 May 2021
(Dollars in Thousands)
Appropriation: Aircraft Procurement, Air Force

Budget Activity

1. Combat Aircraft

| FY 2020 <br> Actual* | FY 2021 <br> Enacted** | FY 2022 <br> Request |
| :---: | :---: | :---: |
| 6,524,659 | 7,584,746 | 5,963,085 |
| 3,407,498 | 3,847,537 | 2,729,260 |
|  |  | 10,397 |
| 1,616,357 | 2,209,274 | 1,038,926 |
| 3,491,587 | 3,756,095 | 3,788,775 |
| 763,680 | 930,899 | 923,573 |
| 1,746,481 | 1,656,940 | 1,273,653 |
| 17,550,262 | 19,985,491 | 15,727,669 |

## UNCLASSIFIED

Department of the Air Force
FY 2022 President's Budget
Exhibit P-1 FY 2022 President's Budget
Total Obligational Authority

Appropriation: 3010F Aircraft Procurement, Air Force


## UNCLASSIFIED

Department of the Air Force
FY 2022 President's Budget
Exhibit P-1 FY 2022 President's Budget
Total Obligational Authority

Appropriation: 3010F Aircraft Procurement, Air Force

| Line <br> No | Item Nomenclature | FY 2020 |  |  | FY 2021 |  | FY 2022 |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Ident | Actual* |  | Enacted** |  | Request |  |
|  |  | Code | Quantity | Cost | Quantity | Cost | Quantity | Cost |

Budget Activity 02: Airlift Aircraft

Tactical Airlift
$7 \mathrm{KC}-46 \mathrm{~A}$ MDAP
Other Airlift
$8 \mathrm{C}-130 \mathrm{~J}$
9 MC-130J
Less: Advance Procurement (PY)

10 MC-130J
Advance Procurement (CY)
C (FY 2020 for FY 2021) (M)
C (FY 2021 for FY 2022) (M)
Total Airlift Aircraft
Budget Activity 03: Trainer Aircraft

UPT Trainers
11 Advanced Trainer Replacement T-X
Total Trainer Aircraft
A
2,139,705
15
2,665,299
14
$2,380,315 \mathrm{U}$
377,156 8

| 797,131 | 1 | 128,896 |
| :---: | :---: | :---: |
| $(411,107)$ | 3 | $(266,049)$ |
| $(-56,000)$ |  | $(-46,000)$ |

40,000
$(40,000)$

3,407,498
$(30,000)$
-------
$3,847,537$
3,847,537
2,729,260

Budget Activity 04: Other Aircraft

Helicopters

| $12 \mathrm{MH}-139 \mathrm{~A}$ | A |  |  | 8 | 194,016 |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 13 Combat Rescue Helicopter | A | 12 | 850,535 | 19 | 1,083,909 | 14 | 792,221 |
| 14 CV-22 Osprey | A |  |  | 2 | 206,220 |  |  |

14 CV-22 Osprey
A
P-122BAS: FY 2022 President's Budget (Total Base Published Version), as of May 5, 2021 at $14: 47: 22$

Department of the Air Force
FY 2022 President's Budget
Exhibit P-1 FY 2022 President's Budget
Total Obligational Authority

Appropriation: 3010F Aircraft Procurement, Air Force

| $\begin{aligned} & \text { Line } \\ & \text { No } \end{aligned}$ | Item Nomenclature | Ident Code | FY 2020 |  | FY 2021 |  | FY 2022 |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | Actual* |  | Enacted** |  | Request |  |
|  |  |  | Quantity | Cost | Quantity | Cost | Quantity | Cost |

Mission Support Aircraft
15 C-37A

16 Civil Air Patrol A/C
A

| 2 | 159,14 |
| :--- | ---: |
| 4 | 11,00 |

11,200
Other Aircraft
17 Target Drones

| 35 | 130,837 |
| ---: | ---: |
| 1 | 114,09 |

133,273
159,867

22 116,169 U U
(
A
1 114,095
159,867
63,419
20 Observation Attack Replacement (OA-X)
30,000
21 MQ-9
A
A
22 RQ-20B Puma
Total Other Aircraft
A

Budget Activity 05: Modification of Inservice Aircraft
$\qquad$
Strategic Aircraft

| $23 \mathrm{~B}-2 \mathrm{~A}$ | A | 9,582 | 30,819 | 29,944 |
| :---: | :---: | :---: | :---: | :---: |
| 24 B-1B | A | 12,659 | 21,808 | 30,518 |
| 25 B-52 | A | 41,433 | 27,279 | 74,957 |
| 26 Combat Rescue Helicopter | A |  |  | 61,191 |
| 27 Large Aircraft Infrared Countermeasures | A | 97,093 | 56,320 | 57,001 |
| Tactical Aircraft |  |  |  |  |
| 28 A-10 | A | 125,788 | 135,793 | 83,621 |
| 29 E-11 BACN/HAG | A | 68,027 | 29,645 | 68,955 |

P-122BAS: FY 2022 President's Budget (Total Base Published Version), as of May 5, 2021 at $14: 47: 22$

## UNCLASSIFIED

Department of the Air Force
FY 2022 President's Budget
Exhibit P-1 FY 2022 President's Budget
Total Obligational Authority

Appropriation: 3010F Aircraft Procurement, Air Force

| Line | Ident | FY 2020 Actual* |  | $\begin{aligned} & \text { FY } 2021 \\ & \text { Enacted** } \end{aligned}$ |  | FY 2022 <br> Request |  | S |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| No Item Nomenclature | Code | Quantity | Cost | Quantity | Cost | Quantity | Cost | c |
| $30 \mathrm{~F}-15$ | A |  | 441,091 |  | 203,910 |  | 234,340 | U |
| $31 \mathrm{~F}-16$ | A |  | 252,109 |  | 622,593 |  | 613,166 | U |
| $32 \mathrm{~F}-22 \mathrm{~A}$ | A |  | 189,047 |  | 357,586 |  | 424,722 | U |
| 33 F-35 Modifications | A |  | 329,590 |  | 295,832 |  | 304,135 | U |
| $34 \mathrm{~F}-15$ EPAW | A |  | 125,417 |  |  | 18 | 149,797 | U |
| 35 Increment 3.2b | A |  | 20,213 |  | 5,889 |  |  | U |
| $36 \mathrm{KC}-46 \mathrm{~A}$ MDAP | A |  | 5,213 |  | 4,085 |  | 1,984 | U |
| Airlift Aircraft |  |  |  |  |  |  |  |  |
| $37 \mathrm{C}-5$ | A |  | 56,326 |  | 50,279 |  | 25,431 | U |
| $38 \mathrm{C}-17 \mathrm{~A}$ | A |  | 55,916 |  | 44,798 |  | 59,570 | U |
| $39 \mathrm{C}-21$ | A |  | 216 |  |  |  |  | U |
| $40 \mathrm{C}-32 \mathrm{~A}$ | A |  | 11,511 |  | 2,947 |  | 1,949 | U |
| $41 \mathrm{C}-37 \mathrm{~A}$ | A |  | 435 |  | 12,985 |  | 5,984 | U |
| Trainer Aircraft |  |  |  |  |  |  |  |  |
| 42 Glider Mods | A |  | 138 |  | 977 |  | 142 | U |
| 43 T-6 | A |  | 11,826 |  | 23,929 |  | 8,735 | U |
| $44 \mathrm{~T}-1$ | A |  | 19,147 |  | 4,465 |  | 3,872 | U |
| $45 \mathrm{~T}-38$ | A |  | 37,341 |  | 40,806 |  | 49,851 | U |
| Other Aircraft |  |  |  |  |  |  |  |  |
| $46 \mathrm{U}-2 \mathrm{Mods}$ |  |  | 58,563 |  | 120,218 |  | 126,809 | U |
| $47 \mathrm{KC}-10 \mathrm{~A}$ (ATCA) | A |  | 2,108 |  | 117 |  | 1,902 | U |

[^0]Department of the Air Force
FY 2022 President's Budget
Exhibit P-1 FY 2022 President's Budget
Total Obligational Authority

Appropriation: 3010F Aircraft Procurement, Air Force

| $\begin{gathered} \text { Line } \\ \text { No } \end{gathered}$ | Item Nomenclature | Ident FY 2020 |  |  | $\begin{gathered} \text { FY } 2021 \\ \text { Enacted** } \end{gathered}$ |  | FY 2022 Request |  | S |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Code | Quantity | Cost | Quantity | Cost | Quantity | Cost | C |
| 48 | C-12 | A |  | 3,021 |  |  |  |  | U |
|  | VC-25A Mod | A |  | 48,624 |  | 1,983 |  | 96 | U |
|  | C-40 | A |  | 256 |  | 7,252 |  | 262 | U |
|  | C-130 | A |  | 186,066 |  | 265,580 |  | 29,071 | U |
| 52 | C-130J Mods | A |  | 122,302 |  | 136,632 |  | 110,784 | U |
| 53 | C-135 | A |  | 113,351 |  | 82,350 |  | 61,376 | U |
| 54 | Compass Call | A |  | 110,539 |  | 180,983 |  | 195,098 | U |
|  | combat flight inspection - CFIN | A |  | 508 |  |  |  |  | U |
| 56 | RC-135 | A |  | 227,673 |  | 191,332 |  | 207,596 | U |
| 57 | E-3 | A |  | 102,092 |  | 118,068 |  | 109,855 | U |
| 58 | E-4 | A |  | 52,977 |  | 44,140 |  | 19,081 | U |
| 59 | E-8 | A |  | 48,778 |  | 22,037 |  | 16,312 | U |
| 60 | Airborne Warning and Cntrl Sys (AWACS) 40/45 | A |  | 32,821 |  | 53,343 |  | 30,327 | U |
| 61 | Family of Beyond Line-of-Sight Terminals | A |  | 7,910 |  | 1,573 |  |  | U |
| 62 | H-1 | A |  | 3,817 |  | 4,410 |  | 1,533 | U |
| 63 | H-60 | A |  | 26,879 |  | 34,728 |  | 13,709 | U |
| 64 | RQ-4 Mods | A |  | 1,704 |  | 3,350 |  | 3,205 | U |
| 65 | HC/MC-130 Modifications | A |  | 41,820 |  | 76,573 |  | 150,263 | U |
| 66 | Other Aircraft | A |  | 50,098 |  | 100,774 |  | 54,828 | U |
| 67 | MQ-9 Mods | A |  | 254,414 |  | 155,011 |  | 144,287 | U |
| 68 | MQ-9 UAS Payloads | A |  | 19,800 |  | 63,500 |  | 40,800 | U |

Department of the Air Force
FY 2022 President's Budget
Exhibit P-1 FY 2022 President's Budget
Total Obligational Authority 05 May 2021 (Dollars in Thousands)

Appropriation: 3010F Aircraft Procurement, Air Force


## Budget Activity 06: Aircraft Spares and Repair Parts

Aircraft Spares and Repair Parts
71 Initial Spares/Repair Parts

A

$$
\begin{gathered}
763,680 \\
--------163,
\end{gathered}
$$

$$
\begin{gathered}
930,899 \\
------ \\
930,899
\end{gathered}
$$

$$
\begin{gathered}
923,573 \\
------ \\
923,573
\end{gathered}
$$

Budget Activity 07: Aircraft Supt Equipment \& Facilities

Common Support Equipment

| 72 Aircraft Replacement Support Equip | A | 93,212 | 149,483 | 138,761 | U |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Post Production Support |  |  |  |  |  |
| $73 \mathrm{~B}-2 \mathrm{~A}$ | A | 1,403 | 1,683 | 1,651 | U |
| 74 B-2B | A | 28,900 | 37,310 | 38,811 | U |
| 75 B-52 | A | 2,341 | 1,034 | 5,602 | U |
| $76 \mathrm{C}-17 \mathrm{~A}$ | A | 132,634 |  |  | U |
| $77 \mathrm{RC}-135$ | A | 170,075 |  |  | U |
| $78 \mathrm{~F}-15$ | A | 2,589 | 2,632 | 2,324 | U |
| $79 \mathrm{~F}-16$ | A | 11,402 | 14,163 | 10,456 | U |
| 80 Other Aircraft | A |  | 4,595 |  | U |
| 81 RQ-4 Post Production Charges | A | 47,246 | 1,750 | 24,592 | U |

## UNCLASSIFIED

Department of the Air Force
FY 2022 President's Budget
Exhibit P-1 FY 2022 President's Budget
Total Obligational Authority 05 May 2021 (Dollars in Thousands)

Appropriation: 3010F Aircraft Procurement, Air Force


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# UNCLASSIFIED <br> Air Force • Budget Estimates FY 2022 • Procurement 

## Master Line Item Table of Contents (by Appropriation then Line Number)

## Appropriation 3010F: Aircraft Procurement, Air Force



## UNCLASSIFIED

Air Force • Budget Estimates FY 2022 • Procurement

Appropriation 3010F: Aircraft Procurement, Air Force

| Line \# | BA | BSA | Line Item Number | Line Item Title |
| :--- | :--- | :--- | :--- | :--- |
| 11 | 03 | 01 | APT000 | Advanced Trainer Replacement T-X......................................................................................... Volume 1 - 71 |
|  |  |  |  |  |
|  |  |  |  |  |
| Appropriation 3010F: Aircraft Procurement, Air Force |  |  |  |  |

UNCLASSIFIED

## UNCLASSIFIED

## Air Force • Budget Estimates FY 2022 • Procurement



UNCLASSIFIED

## UNCLASSIFIED

Air Force • Budget Estimates FY 2022 • Procurement

## Appropriation 3010F: Aircraft Procurement, Air Force

| Line \# | BA | BSA | Line Item Number | Line Item Title | Page |
| :---: | :---: | :---: | :---: | :---: | :---: |
| 35 | 05 | 02 | F2232B | Increment 3.2b.. | . Volume 2-241 |
| 36 | 05 | 02 | KC046A | KC-46A MDAP.. | .Volume 2-247 |
| 37 | 05 | 03 | C00500 | C-5.. | ..Volume 2-249 |
| 38 | 05 | 03 | C01700 | C-17A. | . Volume 2-263 |
| 39 | 05 | 03 | C02100 | C-21. | ..Volume 2-275 |
| 40 | 05 | 03 | C03200 | C-32A. | . Volume 2-277 |
| 41 | 05 | 03 | C03700 | C-37A.. | . Volume 2-279 |
| 42 | 05 | 04 | GLID00 | Glider Mods. | ..Volume 2-285 |
| 43 | 05 | 04 | JPAT00 | T-6. | .Volume 2-287 |
| 44 | 05 | 04 | T00100 | T-1. | ..Volume 2-289 |
| 45 | 05 | 04 | T03800 | T-38.. | ..Volume 2-291 |
| 46 | 05 | 05 | 11 U 200 | U-2 Mods. | . Volume 2-301 |
| 47 | 05 | 05 | C01000 | KC-10A (ATCA). | ..Volume 2-309 |
| 48 | 05 | 05 | C01200 | C-12. | ..Volume 2-311 |
| 49 | 05 | 05 | C02500 | VC-25A Mod.. | ..Volume 2-313 |
| 50 | 05 | 05 | C04000 | C-40.. | ..Volume 2-315 |
| 51 | 05 | 05 | C13000 | C-130.. | ..Volume 2-317 |
| 52 | 05 | 05 | C1300J | C-130J Mods.. | ..Volume 2-327 |

UNCLASSIFIED

## UNCLASSIFIED <br> Air Force • Budget Estimates FY 2022 • Procurement

Appropriation 3010F: Aircraft Procurement, Air Force

| Line \# | BA | BSA | Line Item Number | Line Item Title | Page |
| :---: | :---: | :---: | :---: | :---: | :---: |
| 53 | 05 | 05 | C13500 | C-135.. | .Volume 2-339 |
| 54 | 05 | 05 | CALL00 | Compass Call. | Volume 2-349 |
| 55 | 05 | 05 | CFINOO | combat flight inspection - CFIN.. | Volume 2-357 |
| 56 | 05 | 05 | DARP01 | RC-135. | Volume 2-359 |
| 57 | 05 | 05 | E00300 | E-3. | Volume 2-371 |
| 58 | 05 | 05 | E00400 | E-4. | Volume 2-389 |
| 59 | 05 | 05 | E00800 | E-8.. | Volume 2-395 |
| 60 | 05 | 05 | E34045 | Airborne Warning and Cntrl Sys (AWACS) 40/45... | . Volume 2-405 |
| 61 | 05 | 05 | FBLOST | Family of Beyond Line-of-Sight Terminals... | Volume 2-411 |
| 62 | 05 | 05 | H00100 | H-1... | .Volume 2-413 |
| 63 | 05 | 05 | H06000 | H-60. | .Volume 2-415 |
| 64 | 05 | 05 | HAWK00 | RQ-4 Mods... | Volume 2-425 |
| 65 | 05 | 05 | нСМСО0 | HC/MC-130 Modifications.... | . Volume 2-453 |
| 66 | 05 | 05 | OTHACF | Other Aircraft. | .Volume 2-503 |
| 67 | 05 | 05 | PRDTB2 | MQ-9 Mods. | Volume 2-511 |
| 68 | 05 | 05 | PRDTB3 | MQ-9 UAS Payloads......... | .Volume 2-541 |
| 69 | 05 | 05 | SLC3SA | Senior Leader C3, System - Aircraft. | .Volume 2-547 |
| 70 | 05 | 05 | V02200 | CV-22 Mods.. | . Volume 2-555 |

## UNCLASSIFIED

## UNCLASSIFIED

## Air Force • Budget Estimates FY 2022 • Procurement

Appropriation 3010F: Aircraft Procurement, Air Force

| Line \# | BA | BSA | Line Item Number | Line Item Title | Page |
| :---: | :---: | :---: | :---: | :---: | :---: |
| 71 | 06 | 10 | 000999 | Initial Spares/Repair Parts. | Volume 1-141 |
| Appropriation 3010F: Aircraft Procurement, Air Force |  |  |  |  |  |
| Line \# | BA | BSA | Line Item Number | Line Item Title | Page |
| 72 | 07 | 01 | 000071 | Aircraft Replacement Support Equip.. | . Volume 1-149 |
| 73 | 07 | 02 | B00200 | B-2A. | Volume 1-191 |
| 74 | 07 | 02 | B002B0 | B-2B.. | Volume 1-193 |
| 75 | 07 | 02 | B05200 | B-52. | .Volume 1-197 |
| 76 | 07 | 02 | C01700 | C-17A.. | ...Volume 1-201 |
| 77 | 07 | 02 | DARP01 | RC-135.. | ...Volume 1-203 |
| 79 | 07 | 02 | F01500 | F-15.. | ...Volume 1-205 |
| 80 | 07 | 02 | F0160P | F-16... | ...Volume 1-207 |
| 81 | 07 | 02 | OthacF | Other Aircraft......................... | ...Volume 1-211 |
| 82 | 07 | 02 | RQ4DIS | RQ-4 Post Production Charges...... | ...Volume 1-213 |

UNCLASSIFIED

## UNCLASSIFIED

Air Force • Budget Estimates FY 2022 • Procurement

Appropriation 3010F: Aircraft Procurement, Air Force


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## UNCLASSIFIED

Air Force • Budget Estimates FY 2022 • Procurement

## Master Line Item Table of Contents (Alphabetically by Line Item Title)

| Line Item Title | Line Item Number | Line \# | BA | BSA | Page |
| :---: | :---: | :---: | :---: | :---: | :---: |
| A-10 | A01000 | 28 | 05 |  | ...Volume 2-63 |
| Advanced Trainer Replacement T-X | APT000 | 11 | 03 | 01. | Volume 1-71 |
| Airborne Warning and Cntrl Sys (AWACS) 40/45 | E34045 | 60 | 05 | 05. | Volume 2-405 |
| Aircraft Replacement Support Equip | 000071 | 72 | 07 | 01. | .Volume 1-149 |
| B-1B | B01B00 | 24 | 05 | 01. | Volume 2-13 |
| B-21 Raider, Advance Procurement | B02100 | 1 | 01 | 01. | .Volume 1-1 |
| B-2A | B00200 | 73 | 07 | 02. | .Volume 1-191 |
| B-2A | B00200 | 23 | 05 | 01. | ...Volume 2-1 |
| B-2B | B002B0 | 74 | 07 | 02... | .Volume 1-193 |
| B-52 | B05200 | 75 | 07 | 02. | .Volume 1-197 |
| B-52 | B05200 | 25 | 05 | 01... | Volume 2-27 |
| C-12 | C01200 | 48 | 05 | 05... | .Volume 2-311 |
| C-130 | C13000 | 51 | 05 | 05... | .Volume 2-317 |
| C-130J | C130J0 | 8 | 02 | 03... | Volume 1-51 |
| C-130J Mods | C1300J | 52 | 05 | 05. | .Volume 2-327 |
| C-135 | C13500 | 53 | 05 | 05... | .Volume 2-339 |
| C-17A | C01700 | 76 | 07 | 02. | .Volume 1-201 |

UNCLASSIFIED

## UNCLASSIFIED

Air Force • Budget Estimates FY 2022 • Procurement

| Line Item Title | Line Item Number | Line \# | BA | BSA | Page |
| :---: | :---: | :---: | :---: | :---: | :---: |
| C-17A | C01700 | 38 | 05 | 03... | Volume 2-263 |
| C-21 | C02100 | 39 | 05 | 03. | Volume 2-275 |
| C-32A | C03200 | 40 | 05 | 03. | Volume 2-277 |
| C-37A | C03700 | 15 | 04 | 04. | .Volume 1-101 |
| C-37A | C03700 | 41 | 05 | 03. | Volume 2-279 |
| C-40 | C04000 | 50 | 05 | 05. | Volume 2-315 |
| C-5 | C00500 | 37 | 05 | 03. | Volume 2-249 |
| CV-22 (MYP) | V022A0 | 14 | 04 | 01. | Volume 1-91 |
| CV-22 Mods | V02200 | 70 | 05 | 05. | Volume 2-555 |
| Civil Air Patrol A/C | CAPAC0 | 16 | 04 | 04. | Volume 1-103 |
| Compass Call | CALLOO | 18 | 04 |  | Volume 1-125 |
| Compass Call | CALLOO | 54 | 05 | 05. | Volume 2-349 |
| E-11 BACN/HAG | E011A1 | 19 | 04 | 05. | Volume 1-127 |
| E-11 BACN/HAG | E011A0 | 29 | 05 | 02. | Volume 2-83 |
| E-3 | E00300 | 57 | 05 |  | Volume 2-371 |
| E-4 | E00400 | 58 | 05 | 05. | Volume 2-389 |
| E-8 | E00800 | 59 | 05 | 05. | Volume 2-395 |
| F-15 | F01500 | 79 | 07 | 02... | Volume 1-205 |
| F-15 | F01500 | 30 | 05 |  | ...Volume 2-95 |
| F-15 EPAW | F15EWS | 34 | 05 | 02. | Volume 2-235 |

UNCLASSIFIED

## UNCLASSIFIED

Air Force • Budget Estimates FY 2022 • Procurement

| Line Item Title | Line Item Number | Line \# | BA | BSA Page |
| :---: | :---: | :---: | :---: | :---: |
| F-15EX | F015EX | 5 | 01 | 03.................. Volume 1-23 |
| F-15EX, Advance Procurement | F015EX | 6 | 01 | 03..................V Volume 1-33 |
| F-15e | F015E0 | 4 | 01 | 03.................. Volume 1-21 |
| F-16 | F0160P | 80 | 07 | 02.................Volume 1-207 |
| F-16 | F01600 | 31 | 05 | 02.................Volume 2-121 |
| F-22A | F02200 | 32 | 05 | 02.................Volume 2-157 |
| F-35 | ATA000 | 2 | 01 | 03....................V Volume 1-5 |
| F-35, Advance Procurement | ATA000 | 3 | 01 | 03..................V Volume 1-17 |
| F-35 Modifications | F03500 | 33 | 05 | 02.................Volume 2-177 |
| Family of Beyond Line-of-Sight Terminals | FBLOST | 61 | 05 | 05................ Volume 2-411 |
| Glider Mods | GLID00 | 42 | 05 | 04................ Volume 2-285 |
| H-1 | H00100 | 62 | 05 | 05.................Volume 2-413 |
| H-60 | H06000 | 63 | 05 | 05................ Volume 2-415 |
| HC/MC-130 Modifications | HCMCOO | 65 | 05 | 05.................Volume 2-453 |
| HH-60W | H060WH | 13 | 04 | 01..................Volume 1-79 |
| HH-60W Modifications | H060WH | 26 | 05 | 01..................V Volume 2-47 |
| Increment 3.2b | F2232B | 35 | 05 | 02.................Volume 2-241 |
| Industrial Responsiveness | 000073 | 83 | 07 | 03................. Volume 1-219 |
| Initial Spares/Repair Parts | 000999 | 71 | 06 | 10................ Volume 1-141 |
| KC-10A (ATCA) | C01000 | 47 | 05 | 05.................Volume 2-309 |

UNCLASSIFIED

## UNCLASSIFIED

Air Force • Budget Estimates FY 2022 • Procurement

| Line Item Title | Line Item Number | Line \# | BA | BSA Page |
| :---: | :---: | :---: | :---: | :---: |
| KC-46A MDAP | KC046A | 7 | 02 | 02.................. Volume 1-37 |
| KC-46A MDAP | KC046A | 36 | 05 | 02................. Volume 2-247 |
| Large Aircraft Infrared Countermeasures | LAIRCM | 27 | 05 | 01..................V Volume 2-53 |
| MC-130J | C130JM | 9 | 02 | 03.................. Volume 1-55 |
| MC-130J, Advance Procurement | C130JM | 10 | 02 | 03...................Volume 1-67 |
| MH-139A | H0106O | 12 | 04 | 01.................. Volume 1-75 |
| MQ-9 | PRDTB1 | 21 | 04 | 05................. Volume 1-133 |
| MQ-9 Mods | PRDTB2 | 67 | 05 | 05................. Volume 2-511 |
| MQ-9 UAS Payloads | PRDTB3 | 68 | 05 | 05................. Volume 2-541 |
| Military Personnel Management | 11SPEC | 87 | 07 | 05................. Volume 1-247 |
| Observation Attack Replacement (OA-X) | OAX000 | 20 | 04 | 05................ Volume 1-131 |
| Other Aircraft | OTHACF | 81 | 07 | 02................. Volume 1-211 |
| Other Aircraft | OTHACF | 66 | 05 | 05................. Volume 2-503 |
| Other Production Charges | 000075 | 85 | 07 | 05................. Volume 1-227 |
| RC-135 | DARP01 | 77 | 07 | 02................. Volume 1-203 |
| RC-135 | DARP01 | 56 | 05 | 05................. Volume 2-359 |
| RQ-20B Puma | Q020BR | 22 | 04 | 05................. Volume 1-139 |
| RQ-4 Mods | HAWK00 | 64 | 05 | 05................. Volume 2-425 |
| RQ-4 Post Production Charges | RQ4DIS | 82 | 07 | 02................ Volume 1-213 |
| Senior Leader C3, System - Aircraft | SLC3SA | 69 | 05 | 05................ Volume 2-547 |

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Air Force • Budget Estimates FY 2022 • Procurement

| Line Item Title | Line Item Number | Line \# | BA | BSA | Page |
| :---: | :---: | :---: | :---: | :---: | :---: |
| T-1 | T00100 | 44 | 05 | 04... | . Volume 2-289 |
| T-38 | T03800 | 45 | 05 | 04. | ..Volume 2-291 |
| T-6 | JPAT00 | 43 | 05 | 04... | ..Volume 2-287 |
| Target Drones | 10TRGT | 17 | 04 | 05. | .Volume 1-105 |
| U-2 Mods | 11 U200 | 46 | 05 | 05... | .Volume 2-301 |
| VC-25A Mod | C02500 | 49 | 05 | 05. | .Volume 2-313 |
| War Consumables | 000074 | 84 | 07 | 04... | .Volume 1-223 |
| combat flight inspection - CFIN | CFIN00 | 55 | 05 | 05.. | ..Volume 2-357 |

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(Listing by Model)

## Lookup Matrix by Model



| Model: | B-2A |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Modification P-40a Aggregated Items Title: |  |  | B-2A |  |  |
|  | tem Number |  |  | Item Title | Applies to Multiple Models |
| Uncategorized |  |  |  |  |  |
|  | 110061 | IFF Mode 5/S |  |  | No |
|  | 110062 | Crash Survivab | Memory Unit (CSMU) |  | No |

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| B-2A |  |  |  |
| :---: | :---: | :---: | :---: |
| Modification P-40a Aggregated Items Title: |  | B-2A |  |
| Item Number |  | Item Title | Applies to Multiple Models |
| 110065 | B-2 GBU-57 MOP | P Integration | No |


| B-1B |  |  |  |
| :---: | :---: | :---: | :---: |
| Modification P-40a Aggregated Items Title: B -1B |  |  |  |
| Item Number |  | Item Title | Applies to Multiple Models |
| Uncategorized |  |  |  |
| 4291 | B-1 TRAINING SUPPORT |  | No |
| 92294 | LAPTOP CONTROLLED TARGETING POD |  | No |
| 99999X | Low Cost Modifications |  | No |
| P-3a Individual Modifications |  |  |  |
| Modification Number |  | Modification Title | Applies to Multiple Models |
| 4280 | Fully Integrated Data Links |  | No |
| 4284 | CITS UPGRADE |  | No |
| 8971 | VERTICAL SITUATION DISPLAYS |  | No |


| Model: | B-1 |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Modification P-40a Aggregated Items Title: |  |  | B-1B |  |  |
|  | tem Number |  |  | Item Title | Applies to Multiple Models |
| Uncategorized |  |  |  |  |  |
|  | 92316 | Radio Crypto Compliance |  |  | No |
|  | 92317 | IFF Mode 5/S |  |  | No |

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(Listing by Model)

| B-52H |  |  |
| :---: | :---: | :---: |
| P-3a Individual Modifications |  |  |
| Modification Number | Modification Title | Applies to Multiple Models |
| 6889 | Bomber Tactical Data link | No |
| 6896 | B-52 VLF/LF Modernization | No |


| Model: | NA |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Modification P-40a Aggregated Items Title: |  |  | B-52 |  |  |
|  | tem Number |  |  | Item Title | Applies to Multiple Models |
| Uncategorized |  |  |  |  |  |
|  | 6891 | B-52 WST AR Upgrade Trainer |  |  | No |


| Model: | B-52 |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Modification P-40a Aggregated Items Title: Other Aircraft |  |  |  |  |  |
| Item Number |  | Item Title |  |  | Applies to Multiple Models |
| Uncategorized |  |  |  |  |  |
|  | 8674 | ATP upgrade Legacy to SE |  |  | Yes |
| P-3a Individual Modifications |  |  |  |  |  |
| Modification Number |  | Modification Title |  |  | Applies to Multiple Models |
|  | 6892 | B-52 Low Cost Improvements |  |  | No |
|  | 8675 | ATP-SE Technology Insertion |  |  | Yes |

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(Listing by Model)

| HH-60W |  |  |
| :---: | :---: | :---: |
| P-3a Individual Modifications |  |  |
| Modification Number | Modification Title | Applies to Multiple Models |
| 1 | Distributed Aperture Infrared Countermeasures | No |


| Model: | C-130 |  |  |
| :---: | :---: | :---: | :---: |
| Modification P-40a Aggregated Items Title: Large Aircraft Infrared Countermeasures |  |  |  |
| Item Number |  |  | Item Title |
| Uncategorized |  |  |  |
|  | 8629C130 | LARGE AIRCRAFT INFRARED COUNTERMEASURES C-130 |  |
| Modification P-40a Aggregated Items Title: $\mathbf{C - 1 3 0}$ |  |  |  |
| Item Number |  |  | Item Title |
| Uncategorized |  |  |  |
|  | 99999M | MISC SIMULATOR UPDATES |  |
|  | 99999X | Low Cost Modifications |  |


| Model: | C-5B |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Modification P-40a Aggregated Items Title: |  |  | Large Aircraft Infrared Countermeasures |  |  |
|  | tem Number |  |  | Item Title | Applies to Multiple Models |
| Uncategorized |  |  |  |  |  |
|  | 8629C5 | LARGE AIRCRAFT INFRARED COUNTERMEASURES C-5 |  |  | Yes |
| Modification P-40a Aggregated Items Title: C-5 |  |  |  |  |  |
|  | tem Number |  |  | Item Title | Applies to Multiple Models |
| Uncategorized |  |  |  |  |  |

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| C-5B |  |  |  |
| :---: | :---: | :---: | :---: |
| Modification P-40a Aggregated Items Title: C-5 |  |  |  |
| Item Number |  | Item Title | Applies to Multiple Models |
| 8965 | C-5 Fleet BIk Up | grade 01 | Yes |


| Model: | C-5C |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
| Modification P-40a Aggregated Items Title: |  |  | Large Aircraft Infrared Countermeasures |  |
|  | tem Number |  | Item Title | Applies to Multiple Models |
| Uncategorized |  |  |  |  |
|  | 8629C5 | LARGE AIRCRAFT INFRARED COUNTERMEASURES C-5 |  | Yes |
| Modification P-40a Aggregated Items Title: C-5 |  |  |  |  |
|  | tem Number |  | Item Title | Applies to Multiple Models |
| Uncategorized |  |  |  |  |
|  | 8965 | C-5 Fleet Blk Upgrade 01 |  | Yes |


| Model: | C-5M |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
| Modification P-40a Aggregated Items Title: Large Aircraft Infrared Countermeasures |  |  |  |  |
|  | tem Number |  | Item Title | Applies to Multiple Models |
| Uncategorized |  |  |  |  |
|  | 8629C5 | LARGE AIRCRAFT INFRARED COUNTERMEASURES C-5 |  | Yes |
| Modification P-40a Aggregated Items Title: C -5 |  |  |  |  |
| Item Number |  |  | Item Title | Applies to Multiple Models |
| Uncategorized |  |  |  |  |
|  | 8965 | C-5 Fleet Blk Upgrade 01 |  | Yes |
|  | 8966 | C-5 Mission Systems Equipment- Lavatory |  | No |

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| C-5M |  |  |  |
| :---: | :---: | :---: | :---: |
| Modification P-40a Aggregated Items Title: C-5 |  |  |  |
| Item Number |  | Item Title | Applies to Multiple Models |
| 8969 | C-5 Training Systems (Training Mods) |  | No |
| P-3a Individual Modifications |  |  |  |
| Modification Number |  | Modification Title | Applies to Multiple Models |
| 8967 | Mission Computer and Weather Radar |  | No |
| 8968 | C-5M Communication Navigation Surveillance/Air Traffic Management (CNS/ATM) |  | No |


| Model: | C-17 |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
| Modification P-40a Aggregated Items Title: Large Aircraft Infrared Countermeasures |  |  |  |  |
|  | Item Number |  | Item Title | Applies to Multiple Models |
| Uncategorized |  |  |  |  |
|  | 8629C17 | LARGE AIRCRAFT INFRARED COUNTERMEASURES C-17 |  | No |
| Modification P-40a Aggregated Items Title: C -17A |  |  |  |  |
| Item Number |  |  | Item Title | Applies to Multiple Models |
| Uncategorized |  |  |  |  |
|  | _2000 | Pylon Stub FFLZ, FF, Translating Fairing |  | No |
|  | _2590 | ELT Frequency Change |  | No |
|  | _2633 | MFOQA |  | No |
|  | 1508 | IFF GATM |  | No |
|  | 2901 | Automatic Dependent Surveillance - Broadcast Out (ADS-B Out) |  | No |
|  | 6403 | Filter Fire Mitigation |  | No |
|  | 9740 | Fixed Installation Satellite Antenna (FISA) |  | No |
|  | 9742 | C-17 Simulator Lateral Motion Maneuver Enhancement |  | No |

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(Listing by Model)

| C-17 |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
| Modification P-40a Aggregated Items Title: |  | C-17A |  |  |
| Item Number |  |  | Item Title | Applies to Multiple Models |
| 9744 | C-17 Visual System Field of View |  |  | No |
| 9747 | C-17 Training System (Other Mods) |  |  | No |
| 99999X | Low Cost Modifications |  |  | No |
| P-3a Individual Modifications |  |  |  |  |
| Modification Number |  |  | Modification Title | Applies to Multiple Models |
| 3080 | Replacement Heads Up Display (RHUD) |  |  | No |
| 9741 | Beyond Line of Sight (BLOS) |  |  | No |



| C130J |  |  |
| :---: | :---: | :---: |
| P-3a Individual Modifications |  |  |
| Modification Number | Modification Title | Applies to Multiple Models |
| 1 | LARGE AIRCRAFT INFRARED COUNTERMEASURES C-130J | No |

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(Listing by Model)


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(Listing by Model)

| A-10 |  |  |
| :---: | :---: | :---: |
| P-3a Individual Modifications |  |  |
| Modification Number | Modification Title | Applies to Multiple Models |
| 9601 | ONBOARD OXYGEN GENERATING SYSTEM (OBOGS) | No |
| 8675 | ATP-SE Technology Insertion | Yes |


| A01000A |  |  |  |
| :---: | :---: | :---: | :---: |
| Modification P-40a Aggregated Items Title: A-10 |  |  |  |
| Item Number |  | Item Title | Applies to Multiple Models |
| Uncategorized |  |  |  |
| 9816 | A-10 Conversion | Fuel Tanks | No |


| E-11A |  |  |
| :---: | :---: | :---: |
| P-3a Individual Modifications |  |  |
| Modification Number | Modification Title | Applies to Multiple Models |
| 1 | E-11 Mods | No |


| Model: | F-15C |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Modification P-40a Aggregated Items Title: |  |  | F-15 |  |  |
|  | tem Number |  |  | Item Title | Applies to Multiple Models |
| Uncategorized |  |  |  |  |  |
|  | 1203 | F-15 C/D Secondary Power System (SPS) |  |  | Yes |
|  | 1205 | :Advanced Display Core Processor, ADCP II-C |  |  | Yes |
|  | 1206 | F-15C Infrared Search and Track (IRST) |  |  | Yes |
|  | 1209 | F-15 C/D Flight Data Recorder (FDR) |  |  | Yes |

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(Listing by Model)

| Model: | F-15D |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
| Modification P-40a Aggregated Items Title: |  |  | F-15 |  |
| Item Number |  | Item Title |  | Applies to Multiple Models |
| Uncategorized |  |  |  |  |
|  | 1203 | F-15 C/D Secondary Power System (SPS) |  | Yes |
|  | 1205 | :Advanced Display Core Processor, ADCP II-C |  | Yes |
|  | 1206 | F-15C Infrared Search and Track (IRST) |  | Yes |
|  | 1209 | F-15 C/D Flight Data Recorder (FDR) |  | Yes |
|  | 6158 | F-15C/D APG-63(V)3 radar upgrade |  | Yes |
|  | 8754 | F-15C/D IFF Mode 5 |  | Yes |
|  | 8755 | F-15E IFF MODE 5 |  | Yes |
|  | 8756 | F-15C/D Link 16 Cryptographic Modernization |  | Yes |
|  | 8798 | 5th to 4th Gen Gateway |  | Yes |
|  | 8816 | F-15C/D APG-63(V)3 Common Config |  | Yes |
|  | 99999X | Low Cost Modifications |  | Yes |
| P-3a Individual Modifications |  |  |  |  |
| Modification Number |  |  | Modification Title | Applies to Multiple Models |
|  | 8801 | F-15 C/D SLEP Longerons |  | Yes |
|  |  |  |  |  |
| Model: ${ }^{\text {F-15E }}$ |  |  |  |  |
|  |  |  |  |  |
| Item Number |  |  | Item Title | Applies to Multiple Models |
| Uncategorized |  |  |  |  |
|  | 1210 | F-15E Flight Data Recorder (FDR) |  | No |
|  | 8353 | F-15E -JOINT HELMET-MOUNTED CUEING SYSTEM |  | No |

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(Listing by Model)

| F15CD |  |  |  |
| :---: | :---: | :---: | :---: |
| Modification P-40a Aggregated Items Title: F-15 |  |  |  |
| Item Number |  | Item Title | Applies to Multiple Models |
| Uncategorized |  |  |  |
| 8806 | F-15 C/D Cabin | Pressure Indicator | No |


| Model: | F15E |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Modification P-40a Aggregated Items Title: |  |  | F-15 |  |  |
|  | tem Number |  |  | Item Title | Applies to Multiple Models |
| Uncategorized |  |  |  |  |  |
|  | 8807 | F-15 E Cabin Pr | essure Indicator |  | No |


| Model: | F-15A |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Modification P-40a Aggregated Items Title: F-15 |  |  |  |  |  |
|  | tem Number |  |  | Item Title | Applies to Multiple Models |
| Uncategorized |  |  |  |  |  |
|  | 99999X | Low Cost Modifi | cations |  | Yes |


| F-15B |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
| Modification P-40a Aggregated Items Title: F-15 |  |  |  |  |
| Item Number |  |  | Item Title | Applies to Multiple Models |
| Uncategorized |  |  |  |  |
| 99999X | Low Cost Modifi | cations |  | Yes |

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| Model: | F-16 |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
| Modification P-40a Aggregated Items Title: |  |  | F-16 |  |
|  | tem Number |  | Item Title | Applies to Multiple Models |
| Uncategorized |  |  |  |  |
|  | 633030 | Aggressors Update |  | No |
|  | 633041 | Anti Jam |  | No |
|  | 633042 | Missile Warning Systems |  | No |
|  | 661652 | Link 16 Crypto |  | No |
|  | 661653 | MIDS-JTRS |  | No |
|  | 8662 | AETC MTD UPGRADES-FIELD TRAINING DETACHMENTS |  | No |
|  | 866251 | Full Combat Mission Training |  | No |
|  | 99999X | Low Cost Modifications |  | No |
| Modification P-40a Aggregated Items Title: $⿻$ Other Aircraft |  |  |  |  |
|  | tem Number |  | Item Title | Applies to Multiple Models |
| Uncategorized |  |  |  |  |
|  | 8669 | Full Combat Mission Training |  | No |
|  | 8674 | ATP upgrade Legacy to SE |  | Yes |
| P-3a Individual Modifications |  |  |  |  |
| Mod | ification Number |  | Modification Title | Applies to Multiple Models |
|  | 602148 | MMC and Display Generator Upgrade |  | No |
|  | 602600 | F-16 LEGACY STRUCTURAL SLEP |  | No |
|  | 618250 | Comm Suite Upgrade |  | No |
|  | 633031 | HFLCC AGCAS |  | No |
|  | 633032 | AIFF MODE 5 |  | No |

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Exhibit P-1M, Procurement Programs - Modification Summary

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Air Force • Budget Estimates FY 2022 • Procurement Exhibit P-1M, Procurement Programs - Modification Summary
(Listing by Model)

| F-16 |  |  |
| :---: | :---: | :---: |
| P-3a Individual Modifications |  |  |
| Modification Number | Modification Title | Applies to Multiple Models |
| 694050 | AESA Radars | No |
| 704050 | Digital Radar Warning Receiver (RWR) | No |
| 866250 | F-16 TRAINING SYSTEMS | No |
| 8675 | ATP-SE Technology Insertion | Yes |


| F-22 |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
| Modification P-40a Aggregated Items Title: F -22A |  |  |  |  |
| Item Number | Item Title |  |  | Applies to Multiple Models |
| Uncategorized |  |  |  |  |
| F22014 | F119 Engine Modifications |  |  | No |
| F22022 | Structures Retrofit Plan |  |  | No |
| F22027 | Crypto Modernization |  |  | No |
| F22030 | Mode 5 Identification Friend or Foe (IFF) |  |  | No |
| P-3a Individual Modifications |  |  |  |  |
| Modification Number |  |  | Modification Title | Applies to Multiple Models |
| 1 | Reliability and Maintainability Program |  |  | No |
| 2 | Link 16 |  |  | No |
| 3 | Trainers Modernization |  |  | No |
| 4 | Sensor Enhancement |  |  | No |
| 11100 | INCREMENT 3.2B |  |  | No |

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(Listing by Model)

| Model: | F-35A |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
| P-3a Individual Modifications |  |  |  |  |
| Mod | fication Number |  | Modification Title | Applies to Multiple Models |
|  | 1 | Block 3i LRIP 2-5 Upgrade |  | No |
|  | 2 | Block 3F LRIP 2-5 Upgrade |  | No |
|  | 3 | Block 3F LRIP 6-8 Upgrade |  | No |
|  | 4 | Concurrency |  | No |
|  | 5 | Correction of Deficiencies |  | No |
|  | 6 | Block 4 Modifications |  | No |


| C-37 |  |  |  |
| :---: | :---: | :---: | :---: |
| Modification P-40a Aggregated Items Title: C-37A |  |  |  |
| Item Number |  | Item Title | Applies to Multiple Models |
| Uncategorized |  |  |  |
| 1117 | WIDEBAND SATCOM |  | No |
| 1118 | CNS/ATM Compliance |  | No |
| P-3a Individual Modifications |  |  |  |
| Modification Number |  | Modification Title | Applies to Multiple Models |
| 1122 | SAT 906 |  | No |
| 2 | C-37-SLC3SA |  | No |


| Model: | C-37A |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Modification P-40a Aggregated Items Title: |  |  | C-37A |  |  |
| Item Number |  |  |  | Item Title | Applies to Multiple Models |
| Uncategorized |  |  |  |  |  |

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Exhibit P-1M, Procurement Programs - Modification Summary

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Air Force • Budget Estimates FY 2022 • Procurement Exhibit P-1M, Procurement Programs - Modification Summary
(Listing by Model)

| C-37A |  |  |  |
| :---: | :---: | :---: | :---: |
| Modification P-40a Aggregated Items Title: $\mathrm{C}-37 \mathrm{~A}$ |  |  |  |
| Item Number |  | Item Title | Applies to Multiple Models |
| 99999 S | SERVICE BULL | ETINS | Yes |
| 99999X | Low Cost Modifi | cations | Yes |


| Model: | C-37B |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Modification P-40a Aggregated Items Title: |  |  | C-37A |  |  |
|  | em Number |  |  | Item Title | Applies to Multiple Models |
| Uncategorized |  |  |  |  |  |
|  | 99999S | SERVICE BULLETINS |  |  | Yes |
|  | 99999X | Low Cost Modifications |  |  | Yes |


| Model: | T-6A |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Modification P-40a Aggregated Items Title: |  |  | T-6 |  |  |
|  | tem Number |  |  | Item Title | Applies to Multiple Models |
| Uncategorized |  |  |  |  |  |
|  | 9871 | T-6A Crash Survivable Recorder |  |  | No |
|  | 9873 | Canopy Fracture Initiation System |  |  | No |
|  | 9877 | Avionics Upgrades FAA Compliance |  |  | No |
|  | 9878 | Aircrew Training Device (ATD) Modernization |  |  | No |
|  | 9893 | Crew System Modernization Program |  |  | No |
|  | 999995 | SERVICE BULLETINS |  |  | No |
|  | 99999X | Low Cost Modifications |  |  | No |

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Exhibit P-1M, Procurement Programs - Modification Summary

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(Listing by Model)

| T03800 |  |  |  |
| :---: | :---: | :---: | :---: |
| Modification P-40a Aggregated Items Title: |  | T-38 |  |
| Item Number |  | Item Title | Applies to Multiple Models |
| 6093 | T-38 Canopy |  | No |


| Model: | U-2 |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
| P-3a Individual Modifications |  |  |  |  |
| Modi | fication Number |  | Modification Title | Applies to Multiple Models |
|  | 4494 | U-2 Mod |  | No |
|  | 4496 | ASARS-2B Procurement for U-2 |  | No |


| Model: | $\mathrm{C}-130 \mathrm{H}$ |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
| Modification P-40a Aggregated Items Title: C -130 |  |  |  |  |
|  | tem Number |  | Item Title | Applies to Multiple Models |
| Uncategorized |  |  |  |  |
|  | 3773 | C-130 8-Bladed Propeller Upgrade |  | No |
|  | 8221 | C-130 ALR-69A Radar Warning Receiver (RWR) |  | No |
|  | 8578 | C-130 SYSTEMS/STRUCTURE (PHASE II MODERNIZATION) |  | Yes |
|  | 9139 | MOD V IFF |  | No |
|  | 9149 | C-130 Aux Hyd Pump |  | Yes |
|  | 92302 | C-130H Avionics Modernization Program (AMP) Increment 1 |  | No |
|  | 92308 | T-56 3.5 Engine Mod |  | No |
|  | 92311 | Electronic Propeller Control System (EPCS) |  | No |
|  | 92312 | In-Flight Propeller Balancing System (IPBS) |  | No |
|  | 92315 | C-130H Simulator |  | No |

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Exhibit P-1M, Procurement Programs - Modification Summary

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| C-130H |  |  |  |
| :---: | :---: | :---: | :---: |
| Modification P-40a Aggregated Items Title: C-130 |  |  |  |
| Item Number |  | Item Title | Applies to Multiple Models |
| 92322 | MAFFS |  | No |
| 99999A | LOW COST SA | EETY MODIFICATIONS | No |
| P-3a Individual Modifications |  |  |  |
| Modification Number |  | Modification Title | Applies to Multiple Models |
| 8518 | C-130H Avionic | Modernization Program (AMP) Increment 2 | No |


| Model: | MC-130H |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
| Modification P-40a Aggregated Items Title: C -130 |  |  |  |  |
|  | tem Number |  | Item Title | Applies to Multiple Models |
| Uncategorized |  |  |  |  |
|  | 8578 | C-130 SYSTEMS/STRUCTURE (PHASE II MODERNIZATION) |  | Yes |
|  | 9149 | C-130 Aux Hyd Pump |  | Yes |
|  | 92316 | AFSOC C-130 Mods |  | No |


| Model: | HC-130P |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
| Modification P-40a Aggregated Items Title: $\mathrm{C-130}$ |  |  |  |  |
|  | tem Number |  | Item Title | Applies to Multiple Models |
| Uncategorized |  |  |  |  |
|  | 8578 | C-130 SYSTEMS/STRUCTURE (PHASE II MODERNIZATION) |  | Yes |

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Exhibit P-1M, Procurement Programs - Modification Summary

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| Model: | HC-130N |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Modification P-40a Aggregated Items Title: $\mathbf{C - 1 3 0}$ |  |  |  |  |  |
| Item Number |  |  |  | Item Title | Applies to Multiple Models |
| Uncategorized |  |  |  |  |  |
|  | 8578 | C-130 SYSTEMS/STRUCTURE (PHASE II MODERNIZATION) |  |  | Yes |
| Model: ${ }^{\text {EC-130H }}$ |  |  |  |  |  |
| Modification P-40a Aggregated Items Title: C -130 |  |  |  |  |  |
| Item Number |  | Item Title |  |  | Applies to Multiple Models |
| Uncategorized |  |  |  |  |  |
|  | 8578 | C-130 SYSTEMS/STRUCTURE (PHASE II MODERNIZATION) |  |  | Yes |
| Modification P-40a Aggregated Items Title: Compass Call |  |  |  |  |  |
| Item Number |  |  |  | Item Title | Applies to Multiple Models |
| Uncategorized |  |  |  |  |  |
|  | 1001 | COMPASS CALL |  |  | No |
| Model: ${ }^{\text {AC-130U }}$ |  |  |  |  |  |
| Modification P-40a Aggregated Items Title: $\mathrm{C-130}$ |  |  |  |  |  |
| Item Number |  |  |  | Item Title | Applies to Multiple Models |
| Uncategorized |  |  |  |  |  |
|  | 8578 | C-130 SYSTEMS/STRUCTURE (PHASE II MODERNIZATION) |  |  | Yes |

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Exhibit P-1M, Procurement Programs - Modification Summary

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(Listing by Model)

| Model: | No text provided. |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Modification P-40a Aggregated Items Title: $\mathbf{C - 1 3 0}$ |  |  |  |  |  |
| Item Number |  |  |  | Item Title | Applies to Multiple Models |
| Uncategorized |  |  |  |  |  |
|  | 9141 | C-130 CRASHWORTHY LOADMASTER SEAT |  |  | No |
| Modification P-40a Aggregated Items Title: Other Aircraft |  |  |  |  |  |
| Item Number |  |  |  | Item Title | Applies to Multiple Models |
| Uncategorized |  |  |  |  |  |
|  | 8736 | Counterdrug USSOUTHCOM Support |  |  | No |
| Model: ${ }^{\text {M }}$ M -130W |  |  |  |  |  |
| Modification P-40a Aggregated Items Title: C -130 |  |  |  |  |  |
| Item Number |  |  |  | Item Title | Applies to Multiple Models |
| Uncategorized |  |  |  |  |  |
|  | 9149 | C-130 Aux Hyd Pump |  |  | Yes |
| Model: ${ }^{\text {HC-130H }}$ |  |  |  |  |  |
| Modification P-40a Aggregated Items Title: |  |  | C-130 |  |  |
|  | tem Number |  |  | Item Title | Applies to Multiple Models |
| Uncategorized |  |  |  |  |  |
|  | 92309 | Onboard Fire Incident Response Equipment |  |  | No |

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Exhibit P-1M, Procurement Programs - Modification Summary

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(Listing by Model)

| KC-135 |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
| Modification P-40a Aggregated Items Title: |  | C-135 |  |  |
| Item Number |  |  | Item Title | Applies to Multiple Models |
| 9824 | ADS-B |  |  | No |
| 9827 | KC-135 AERO-I SATCOM replacement |  |  | No |
| 9828 | Real Time in the Cockpit (RTIC) |  |  | No |
| 99999A | LOW COST SAFETY MODIFICATIONS |  |  | No |
| 99999X | Low Cost Modifications |  |  | No |
| Modification P-40a Aggregated Items Title: |  |  |  |  |
| Item Number |  |  | Item Title | Applies to Multiple Models |
| Uncategorized |  |  |  |  |
| 8670 | MAF Training |  |  | No |
| 8735 | DAS000 (ROBE) |  |  | Yes |
| P-3a Individual Modifications |  |  |  |  |
| Modification Number |  |  | Modification Title | Applies to Multiple Models |
| 8653 | BLOCK 45 |  |  | No |
| 9826 | Rudder Position | Indicator (RPI) |  | No |


| Model: | EC-37B |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
| P-3a Individual Modifications |  |  |  |  |
| Modi | fication Number |  | Modification Title | Applies to Multiple Models |
|  | 1003 | COMPASS CALL Baseline Modifications |  | No |

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| WC-135R |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
| Modification P-40a Aggregated Items Title: |  | RC-135 |  |  |
| Item Number |  |  | Item Title | Applies to Multiple Models |
| Uncategorized |  |  |  |  |
| 4266 | CONSTANT PH | OENIX |  | No |


| Model: | RC-135S |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
| P-3a Individual Modifications |  |  |  |  |
| Modification Number |  |  | Modification Title | Applies to Multiple Models |
| 2504 |  | COBRA BALL |  | Yes |


| Model: | TC-135W |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
| P-3a Individual Modifications |  |  |  |  |
| Modification Number |  |  | Modification Title | Applies to Multiple Models |
| 2504 |  | COBRA BALL |  | Yes |
| 4263 |  | RIVET JOINT |  | Yes |


| Model: | RC-135V |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
| P-3a Individual Modifications |  |  |  |  |
| Modification Number |  |  | Modification Title | Applies to Multiple Models |
| 4263 |  | RIVET JOINT |  | Yes |

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Exhibit P-1M, Procurement Programs - Modification Summary

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(Listing by Model)

| RC-135W |  |  |
| :---: | :---: | :---: |
| P-3a Individual Modifications |  |  |
| Modification Number | Modification Title | Applies to Multiple Models |
| 4263 | RIVET JOINT | Yes |


| Model: | RC-135U |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
| P-3a Individual Modifications |  |  |  |  |
| Modi | fication Number |  | Modification Title | Applies to Multiple Models |
|  | 4265 | COMBAT SENT |  | No |


| Model: | E-3 |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
| Modification P-40a Aggregated Items Title: E-3 |  |  |  |  |
|  | Item Number |  | Item Title | Applies to Multiple Models |
| Uncategorized |  |  |  |  |
|  | 50001 T | BLOCK 40/45 UPGRADE |  | No |
|  | 7225 | NEXT GENERATION IDENTIFICATION FRIEND OR FOE (IFF) |  | No |
|  | 8662 | AETC MTD UPGRADES-FIELD TRAINING DETACHMENTS |  | No |
|  | 9707 | RM\&A Mod |  | No |
|  | 9716 | VERTICAL STABILIZER AND RUDDER |  | No |
|  | 99999XA | LOW COST MOD - AIRFRAME |  | No |
|  | 99999XB | LOW COST MOD - AVIONICS \& MISSION SYSTEMS |  | No |
|  | 99999XC | Low Cost Mod - Communications |  | No |
|  | 99999XD | Low Cost Mod - Human Systems |  | No |

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(Listing by Model)

| E-3 |  |  |
| :---: | :---: | :---: |
| P-3a Individual Modifications |  |  |
| Modification Number | Modification Title | Applies to Multiple Models |
| 50002 | Communication Networking Upgrade (CNU) | No |
| 9718 | IP-enabled Capability (IPEC) | No |
| 9721 | AWACS Communications Integration Program (ACIP) | No |
| 1 | BLOCK 40/45 BLOCK UPGRADE | No |



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(Listing by Model)


| E-4B |  |  |  |
| :---: | :---: | :---: | :---: |
| Modification P-40a Aggregated Items Title: E-4 |  |  |  |
| Item Number |  | Item Title | Applies to Multiple Models |
| Uncategorized |  |  |  |
| 3410 | NPES (NC2AIS) E-4B |  | No |
| 3411 | Survivable SHF |  | No |
| 4406A | SHF Modernization |  | No |
| 4409 | Low Frequency Transmit System (LFTS) |  | No |
| 9709F | CNS/ATM(ADS-B OUT) |  | No |
| 99999 S | SERVICE BULLETINS |  | No |
| P-3a Individual Modifications |  |  |  |
| Modification Number |  | Modification Title | Applies to Multiple Models |
| 1 | AEHF Compatib | le Terminal/PNVC | No |


| Model: | E-4 |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Modification P-40a Aggregated Items Title: E-4 |  |  |  |  |  |
| Item Number |  | Item Title |  |  | Applies to Multiple Models |
| Uncategorized |  |  |  |  |  |
|  | 4380 | MUOS |  |  | No |

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Exhibit P-1M, Procurement Programs - Modification Summary

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(Listing by Model)

| Model: | E-4 |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Modification P-40a Aggregated Items Title: |  |  | E-4 |  |  |
|  | Item Number |  |  | Item Title | Applies to Multiple Models |
|  | 99999X | Low Cost Modifications |  |  | No |



| Model: | E-8 |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Modification P-40a Aggregated Items Title: E-8 |  |  |  |  |  |
|  | tem Number |  |  | Item Title | Applies to Multiple Models |
| Uncategorized |  |  |  |  |  |
| 38204 JSTARS OCO Requirements |  |  |  |  | No |

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Exhibit P-1M, Procurement Programs - Modification Summary

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| HH-60G |  |  |  |
| :---: | :---: | :---: | :---: |
| Modification P-40a Aggregated Items Title: H-60 |  |  |  |
| Item Number | Item Title |  | Applies to Multiple Models |
| Uncategorized |  |  |  |
| 8564 | Control Display Unit (CDU) |  | No |
| 8565 | Navigation System Upgrade (NSU) |  | No |
| 8844 | Multi-function Color Display |  | No |
| 8850 | MODE 5 |  | No |
| 8852 | CSAR Avionics/Electrical Upgrade |  | No |
| 8854 | HH-60 OLR Mission Modifications |  | No |
| 8856 | Block 162 |  | No |
| 8859 | DVE Sensor |  | No |
| 8861 | HH-60 DATALINKS |  | No |
| 8862 | HH-60G Communication Suite Control Integration |  | No |
| 99999X | Low Cost Modifications |  | No |
| P-3a Individual Modifications |  |  |  |
| Modification Number |  | Modification Title | Applies to Multiple Models |
| 8853 | DEFENSIVE SY | STEM UPGRADE | No |


| Model: | RQ-4 |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
| P-3a Individual Modifications |  |  |  |  |
| Modi | fication Number |  | Modification Title | Applies to Multiple Models |
|  | 470001 | GH Aircraft Mods |  | No |
|  | 470003 | GH Ground Station Mods |  | No |
|  | 470009 | ASIP Increment I |  | No |

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Exhibit P-1M, Procurement Programs - Modification Summary

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(Listing by Model)

| Model: | RQ-4 |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
| P-3a Individual Modifications |  |  |  |  |
| Modi | fication Number |  | Modification Title | Applies to Multiple Models |
|  | 470010 | SAR |  | No |
|  | 470011 | ASIP Install/Calibration |  | No |
|  | 470012 | MODE 5/ADS-B |  | No |
|  | 470013 | Sensor Enhancements |  | No |
|  | 470019 | Communication Interoperability/Enhancements |  | No |


| Model: | HCMCAC-130J |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Modification P-40a Aggregated Items Title: |  |  | HC/MC-130 Modifications |  |  |
|  | tem Number |  |  | Item Title | Applies to Multiple Models |
| Uncategorized |  |  |  |  |  |
|  | 8761 | MC/AC-Comm | nications Modernization Phase I |  | No |


| MC-130J |  |  |  |
| :---: | :---: | :---: | :---: |
| Modification P-40a Aggregated Items Title: HC/MC-130 Modifications |  |  |  |
| Item Number |  | Item Title | Applies to Multiple Models |
| Uncategorized |  |  |  |
| 99999Y | MC-Low Cost Modifications |  | No |
| P-3a Individual Modifications |  |  |  |
| Modification Number |  | Modification Title | Applies to Multiple Models |
| 5222 | HC/MC-130J Block 8.1 |  | Yes |
| 8632 | MC-130J Increment 2 |  | No |
| 8642 | (AbMN) Airborne Mission Networking |  | No |

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Exhibit P-1M, Procurement Programs - Modification Summary

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Air Force • Budget Estimates FY 2022 • Procurement Exhibit P-1M, Procurement Programs - Modification Summary
(Listing by Model)

| MC-130J |  |  |
| :---: | :---: | :---: |
| P-3a Individual Modifications |  |  |
| Modification Number | Modification Title | Applies to Multiple Models |
| 8648 | ADS-B out Acceleration | No |
| 8659 | Broadband Antenna | No |
| 8762 | MC-130J Link 16 | No |
| 8764 | Trainer Modifications | No |
| 1 | HC- Low Cost Modifications | Yes |


| Model: | HC-130J |  |  |
| :---: | :---: | :---: | :---: |
| P-3a Individual Modifications |  |  |  |
| Mod | fication Number | Modification Title | Applies to Multiple Models |
|  | 5222 | HC/MC-130J Block 8.1 | Yes |
|  | 8634 | HC-130J Common Configuration | No |
|  | 8635 | HC-130J Personnel Locator System | No |
|  | 8636 | HC-130J Situational Awareness | No |
|  | 8639 | Wireless Intercom | No |
|  | 8652 | (RFCM) Radio Frequency Countermeasures | No |
|  | 8658 | Paratroop Door | No |
|  | 1 | HC- Low Cost Modifications | Yes |

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Exhibit P-1M, Procurement Programs - Modification Summary

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Air Force • Budget Estimates FY 2022 • Procurement Exhibit P-1M, Procurement Programs - Modification Summary
(Listing by Model)


| Model: | KC-46A |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
| Modification P-40a Aggregated Items Title: |  |  | Other Aircraft |  |
|  | tem Number |  | Item Title | Applies to Multiple Models |
| Uncategorized |  |  |  |  |
|  | 8735 | DAS000 (ROBE) |  | Yes |


| Model: | E-9 |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
| Modification P-40a Aggregated Items Title: Other Aircraft |  |  |  |  |
|  | tem Number |  | Item Title | Applies to Multiple Models |
| Uncategorized |  |  |  |  |
|  | 99999J | MISCELLANEOUS LOW COSTS MODS (Combat Developments) |  | No |


| HH-60U |  |  |  |
| :---: | :---: | :---: | :---: |
| Modification P-40a Aggregated Items Title: Other Aircraft |  |  |  |
| Item Number |  | Item Title | Applies to Multiple Models |
| Uncategorized |  |  |  |
| HH-60U | HH-60U |  | No |

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Exhibit P-1M, Procurement Programs - Modification Summary

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Air Force • Budget Estimates FY 2022 • Procurement Exhibit P-1M, Procurement Programs - Modification Summary
(Listing by Model)


| MQ-9 |  |  |
| :---: | :---: | :---: |
| P-3a Individual Modifications |  |  |
| Modification Number | Modification Title | Applies to Multiple Models |
| 9151 | Block 5 | No |
| 9152 | MQ-9 Field | No |
| 9154 | Lynx SAR | No |
| 9155 | GCS Blk 30 | No |
| 9159 | R\&M enhancements | No |
| 9164 | Extended Range MQ-9 | No |
| 9167 | MQ-9 Upgrade | No |
| 1 | MQ-9 Low Cost Mods | No |
| 9169 | Gorgon Stare | No |


| Model: | C-40B |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
| Modification P-40a Aggregated Items Title: |  |  | Senior Leader C3, System - Aircraft |  |
|  | tem Number |  | Item Title | Applies to Multiple Models |
| Uncategorized |  |  |  |  |
|  | -40-SLC3SA | C-40-SLC3SA |  | Yes |

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Exhibit P-1M, Procurement Programs - Modification Summary

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| Model: | C |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
| Modification P-40a Aggregated Items Title: Senior Leader C3, System - Aircraft |  |  |  |  |
|  | Item Number |  | Item Title | Applies to Multiple Models |
| Uncategorized |  |  |  |  |
|  | -40-SLC3SA | C-40-SLC3SA |  | Yes |


| Model: | VC-25A |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
| Modification P-40a Aggregated Items Title: |  |  | Senior Leader C3, System - Aircraft |  |
|  | tem Number |  | Item Title | Applies to Multiple Models |
| Uncategorized |  |  |  |  |
|  | -25A - SLC3SA | VC-25A - SLC3 |  | No |


| Model: | C-32A |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
| P-3a Individual Modifications |  |  |  |  |
| Modification Number |  |  | Modification Title | Applies to Multiple Models |
|  | 1 | C-32-SLC3SA |  | No |


| Model: | CV-22 |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
| P-3a Individual Modifications |  |  |  |  |
| Modification Number |  |  | Modification Title | Applies to Multiple Models |
| 8790 |  | Block 20 Upgrade |  | No |
| 1 |  | Low Cost Modifications |  | No |

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Exhibit P-1M, Procurement Programs - Modification Summary

## UNCLASSIFIED

Air Force • Budget Estimates FY 2022 • Procurement Exhibit P-1M, Procurement Programs - Modification Summary (Funding for Modifications)

## Funding (\$ M)

| Modification P-40a Item Title P-3a Modification Title | PYS | FY 2020 | FY 2021 | FY 2022 <br> Base | $\begin{gathered} \text { FY } 2022 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \text { FY } 2022 \\ \text { Total } \end{gathered}$ | FY 2023 | FY 2024 | FY 2025 | FY 2026 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Exhibit P-40a |  |  |  |  |  |  |  |  |  |  |
| LINK 16/CID/IFR | 4.903 | 0.200 | 0.203 | 0.203 | - | 0.203 | - | - | - | - |
| B-2 Adaptable Communications Suite (ACS) | 23.422 | 0.296 | 0.300 | 0.300 | - | 0.300 | - | - | - | - |
| B-2 Flex Strike Phase 1 | 23.730 | 4.894 | 2.172 | - | - | - | - | - | - | - |
| B61-12 Integration | 39.549 | - | - | - | - | - | - | - | - | - |
| MGUE | 21.156 | 0.990 | 1.096 | 0.314 | - | 0.314 | - | - | - | - |
| IFF Mode 5/S | - | - | - | 2.843 | - | 2.843 | - | - | - | - |
| Crash Survivable Memory Unit (CSMU) | - | - | - | 1.568 | - | 1.568 | - | - | - | - |
| B-2 GBU-57 MOP Integration | 21.494 | - | - | - | - | - | - | - | - | - |
| Common Very Low Frequency Terminal | 58.760 | 2.376 | - | - | - | - | - | - | - | - |
| B-2 Low Cost Engine Modifications | 18.186 | 0.236 | 0.749 | 0.917 | - | 0.917 | - | - | - | - |
| Low Cost Modifications | 19.878 | 0.314 | 0.640 | 0.837 | - | 0.837 | - | - | - | - |
| B-1 TRAINING SUPPORT | 3.879 | 0.458 | 0.575 | 0.071 | - | 0.071 | - | - | - | - |
| LAPTOP CONTROLLED TARGETING POD | 87.969 | 1.594 | - | - | - | - | - | - | - | - |
| Radio Crypto Compliance | - | - | 0.493 | 3.112 | - | 3.112 | - | - | - | - |
| IFF Mode 5/S | 0.796 | 5.953 | 5.994 | 0.000 | - | 0.000 | - | - | - | - |
| Low Cost Modifications | 5.637 | 0.249 | - | 0.100 | - | 0.100 | - | - | - | - |
| B-52 Anti-Skid Replacement | 21.374 | 0.932 | 0.948 | - | - | - | - | - | - | - |
| B-52 Internal Weapons Bay Upgrade | 77.119 | 0.000 | - | - | - | - | - | - | - | - |
| AETC Trainers (B-52) | 11.940 | 2.524 | 0.226 | 0.389 | - | 0.389 | - | - | - | - |
| B-52 Radar Modernization | - | - | - | 0.000 | - | 0.000 | - | - | - | - |

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Exhibit P-1M, Procurement Programs - Modification Summary

## UNCLASSIFIED

Air Force • Budget Estimates FY 2022 • Procurement Exhibit P-1M, Procurement Programs - Modification Summary
(Funding for Modifications)

| Modification P-40a Item Title P-3a Modification Title | PYS | FY 2020 | FY 2021 | $\text { FY } 2022$ <br> Base | $\begin{gathered} \text { FY } 2022 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \text { FY } 2022 \\ \text { Total } \end{gathered}$ | FY 2023 | FY 2024 | FY 2025 | FY 2026 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| B-52 WST AR Upgrade Trainer | - | 0.855 | - | - | - | - | - | - | - | - |
| GPS-IU Replacement | - | 6.730 | 12.014 | - | - | - | - | - | - | - |
| B-52 Crypto Modernization | - | - | - | 3.452 | - | 3.452 | - | - | - | - |
| B-52 IR Missile Warning System | 16.400 | - | - | - | - | - | - | - | - | - |
| Other Mods | 17.796 | 3.969 | 0.470 | 0.476 | - | 0.476 | - | - | - | - |
| LARGE AIRCRAFT INFRARED COUNTERMEASURES C-130 | 15.685 | - | - | - | - | - | - | - | - | - |
| LARGE AIRCRAFT INFRARED COUNTERMEASURES C-5 | 44.896 | 8.177 | - | - | - | - | - | - | - | - |
| LARGE AIRCRAFT INFRARED COUNTERMEASURES C-17 | 214.894 | 35.581 | 9.999 | 0.000 | - | 0.000 | - | - | - | - |
| LAIRCM CFIN | - | - | 7.500 | - | - | - | - | - | - | - |
| MODE S/5 | 14.520 | 0.000 | 0.980 | - | - | - | - | - | - | - |
| A-10 Wing Replacement Program | 268.306 | 93.755 | 99.863 | 0.044 | - | 0.044 | - | - | - | - |
| A-10 Helmet Mounted Cueing System | 0.890 | 1.170 | 1.300 | 3.004 | - | 3.004 | - | - | - | - |
| A-10 Conversion Fuel Tanks | 8.700 | - | - | - | - | - | - | - | - | - |
| 2ND GIGABIT ETHERNET SWITCH (2GES) | - | 5.000 | 4.800 | 2.900 | - | 2.900 | - | - | - | - |
| SDB-1 | - | 8.000 | - | 4.400 | - | 4.400 | - | - | - | - |
| Low Cost Modifications | - | - | - | 2.000 | - | 2.000 | - | - | - | - |
| F-15 C/D Secondary Power System (SPS) | 7.492 | - | - | - | - | - | - | - | - | - |
| :Advanced Display Core Processor, ADCP II-C | 107.349 | 72.094 | - | 0.000 | - | 0.000 | - | - | - | - |
| F-15C Infrared Search and Track (IRST) | 125.545 | 0.000 | 0.000 | 0.000 | - | 0.000 | - | - | - | - |
| F-15 C/D Flight Data Recorder (FDR) | 24.828 | - | - | - | - | - | - | - | - | - |
| F-15E Flight Data Recorder (FDR) | 142.473 | - | - | - | - | - | - | - | - | - |

## UNCLASSIFIED

Exhibit P-1M, Procurement Programs - Modification Summary

## UNCLASSIFIED

Air Force • Budget Estimates FY 2022 • Procurement Exhibit P-1M, Procurement Programs - Modification Summary
(Funding for Modifications)

| Modification P-40a Item Title P-3a Modification Title | PYS | FY 2020 | FY 2021 | $\begin{gathered} \text { FY } 2022 \\ \text { Base } \end{gathered}$ | $\begin{gathered} \text { FY } 2022 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \text { FY } 2022 \\ \text { Total } \end{gathered}$ | FY 2023 | FY 2024 | FY 2025 | FY 2026 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| F-15C/D APG-63(V)3 radar upgrade | 1,341.961 | 14.678 | - | - | - | - | - | - | - | - |
| F-15E -JOINT HELMET-MOUNTED CUEING SYSTEM | 104.524 | - | - | - | - | - | - | - | - | - |
| AETC MTD UPGRADES-FIELD TRAINING DETACHMENTS | 6.796 | 1.147 | 0.103 | 0.181 | - | 0.181 | - | - | - | - |
| F-15C/D IFF Mode 5 | 24.909 | 26.624 | - | - | - | - | - | - | - | - |
| F-15E IFF MODE 5 | 53.711 | 7.627 | 2.080 | 0.177 | - | 0.177 | - | - | - | - |
| F-15C/D Link 16 Cryptographic Modernization | 0.002 | - | - | - | - | - | - | - | - | - |
| F-15C/D Beyond Line Of Sight Communications | 54.428 | - | - | - | - | - | - | - | - | - |
| F-15C Passive Attack Sensor System | 28.577 | - | - | - | - | - | - | - | - | - |
| 5th to 4th Gen Gateway | 3.698 | - | - | - | - | - | - | - | - | - |
| F-15C MIDS JTRS | 26.700 | 41.640 | - | - | - | - | - | - | - | - |
| F-15 C/D Cabin Pressure Indicator | 2.773 | - | - | - | - | - | - | - | - | - |
| F-15 E Cabin Pressure Indicator | 15.893 | - | - | - | - | - | - | - | - | - |
| F-15E APG-82(V)1 Common Config | 35.097 | 14.706 | 12.000 | 4.954 | - | 4.954 | - | - | - | - |
| F-15E SATCOM UON | 17.700 | - | - | - | - | - | - | - | - | - |
| F-15E B61 A/C Umbilical | 0.542 | - | - | - | - | - | - | - | - | - |
| F-15C Simulator Upgrade | 15.000 | - | - | - | - | - | - | - | - | - |
| F-15C/D APG-63(V)3 Common Config | 4.326 | 0.971 | 0.338 | 0.896 | - | 0.896 | - | - | - | - |
| LOW COST RETROFIT MODS | 7.266 | 0.001 | 0.001 | - | - | - | - | - | - | - |
| Low Cost Modifications | 5.789 | 0.001 | - | 0.001 | - | 0.001 | - | - | - | - |
| Aggressors Update | 9.360 | 0.000 | 3.131 | 0.000 | 0.000 | 0.000 | - | - | - | - |
| Anti Jam | 5.000 | - | - | - | - | - | - | - | - | - |
| Missile Warning Systems | 12.000 | - | - | - | - | - | - | - | - | - |

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Exhibit P-1M, Procurement Programs - Modification Summary

## UNCLASSIFIED

Air Force • Budget Estimates FY 2022 • Procurement Exhibit P-1M, Procurement Programs - Modification Summary
(Funding for Modifications)

| Modification P-40a Item Title P-3a Modification Title | PYS | FY 2020 | FY 2021 | $\text { FY } 2022$ <br> Base | $\begin{gathered} \text { FY } 2022 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \text { FY } 2022 \\ \text { Total } \end{gathered}$ | FY 2023 | FY 2024 | FY 2025 | FY 2026 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Link 16 Crypto | 0.139 | - | - | - | - | - | - | - | - | - |
| MIDS-JTRS | 237.644 | 0.269 | 33.093 | 0.000 | - | 0.000 | - | - | - | - |
| AETC MTD UPGRADES-FIELD TRAINING DETACHMENTS | 112.272 | 5.431 | 0.487 | 0.840 | - | 0.840 | - | - | - | - |
| Full Combat Mission Training | 3.128 | 0.000 | - | 0.000 | - | 0.000 | - | - | - | - |
| Low Cost Modifications | 11.750 | 0.010 | 0.010 | 0.146 | - | 0.146 | - | - | - | - |
| F119 Engine Modifications | 83.024 | 4.847 | 4.861 | 4.981 | - | 4.981 | - | - | - | - |
| Structures Retrofit Plan | 275.192 | 0.000 | - | - | - | - | - | - | - | - |
| Crypto Modernization | 12.220 | 4.259 | 2.854 | - | - | - | - | - | - | - |
| Mode 5 Identification Friend or Foe (IFF) | 48.596 | - | - | 0.000 | - | 0.000 | - | - | - | - |
| C-5 Fleet BIk Upgrade 01 | 13.093 | - | - | - | - | - | - | - | - | - |
| C-5 Mission Systems Equipment- Lavatory | 20.404 | 8.742 | 12.866 | 0.638 | - | 0.638 | - | - | - | - |
| C-5 Training Systems (Training Mods) | - | - | - | 7.848 | - | 7.848 | - | - | - | - |
| Pylon Stub FFLZ, FF, Translating Fairing | 94.544 | - | 0.948 | 0.627 | - | 0.627 | - | - | - | - |
| ELT Frequency Change | 5.182 | - | - | - | - | - | - | - | - | - |
| MFOQA | 14.070 | - | - | - | - | - | - | - | - | - |
| IFF GATM | 124.543 | - | 0.050 | - | - | - | - | - | - | - |
| Automatic Dependent Surveillance - Broadcast Out (ADSB Out) | 83.887 | - | - | - | - | - | - | - | - | - |
| Filter Fire Mitigation | - | 1.870 | - | 1.780 | - | 1.780 | - | - | - | - |
| Fixed Installation Satellite Antenna (FISA) | 7.079 | - | 0.000 | - | - | - | - | - | - | - |
| C-17 Simulator Lateral Motion Maneuver Enhancement | 1.438 | - | - | - | - | - | - | - | - | - |
| C-17 Visual System Field of View | 1.008 | - | - | - | - | - | - | - | - | - |
| C-17 Training System (Other Mods) | 3.739 | 0.860 | 7.728 | 9.585 | - | 9.585 | - | - | - | - |

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Exhibit P-1M, Procurement Programs - Modification Summary

## UNCLASSIFIED

Air Force • Budget Estimates FY 2022 • Procurement Exhibit P-1M, Procurement Programs - Modification Summary
(Funding for Modifications)

| Modification P-40a Item Title P-3a Modification Title | PYS | FY 2020 | FY 2021 | $\begin{gathered} \text { FY } 2022 \\ \text { Base } \end{gathered}$ | $\begin{aligned} & \text { FY } 2022 \\ & \text { OcO } \end{aligned}$ | $\begin{gathered} \text { FY } 2022 \\ \text { Total } \end{gathered}$ | FY 2023 | FY 2024 | FY 2025 | FY 2026 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Low Cost Modifications | 3.246 | 3.617 | 1.106 | 0.100 | - | 0.100 | - | - | - | - |
| WIDEBAND SATCOM | - | - | 12.985 | - | - | - | - | - | - | - |
| CNS/ATM Compliance | 17.606 | - | - | - | - | - | - | - | - | - |
| SERVICE BULLETINS | - | 0.100 | - | - | - | - | - | - | - | - |
| Low Cost Modifications | 0.449 | 0.335 | - | - | - | - | - | - | - | - |
| T-6A Crash Survivable Recorder | - | - | 18.865 | 4.342 | - | 4.342 | - | - | - | - |
| Canopy Fracture Initiation System | 1.131 | - | - | - | - | - | - | - | - | - |
| Avionics Upgrades FAA Compliance | 22.974 | 6.225 | - | - | - | - | - | - | - | - |
| Aircrew Training Device (ATD) Modernization | 37.541 | 3.601 | 3.093 | 3.193 | - | 3.193 | - | - | - | - |
| Reliability \& Maintainability (R\&M) Safety Mods | - | 0.100 | 0.071 | 0.100 | - | 0.100 | - | - | - | - |
| Crew System Modernization Program | 30.600 | 0.100 | 0.100 | 0.100 | - | 0.100 | - | - | - | - |
| SERVICE BULLETINS | - | 0.100 | 0.100 | 0.100 | - | 0.100 | - | - | - | - |
| Low Cost Modifications | 3.232 | 1.700 | 1.700 | 0.900 | - | 0.900 | - | - | - | - |
| T-38 Avionics | 96.247 | 0.769 | - | 1.554 | - | 1.554 | - | - | - | - |
| T-38 A/B ADS-B Out | 8.269 | - | - | - | - | - | - | - | - | - |
| T-38 Canopy | 0.000 | 0.237 | 1.573 | 1.543 | - | 1.543 | - | - | - | - |
| T-38A/B ESUP II | - | - | 5.000 | - | - | - | - | - | - | - |
| LOW COST SAFETY MODIFICATIONS | 0.039 | 0.005 | 0.005 | 0.005 | - | 0.005 | - | - | - | - |
| Low Cost Modifications | 0.043 | 0.006 | 0.006 | 0.006 | - | 0.006 | - | - | - | - |
| C-130 8-Bladed Propeller Upgrade | 196.004 | 55.000 | 180.000 | - | - | - | - | - | - | - |
| C-130 ALR-69A Radar Warning Receiver (RWR) | 36.000 | - | - | - | - | - | - | - | - | - |
| C-130 SYSTEMS/STRUCTURE (PHASE II MODERNIZATION) | 673.495 | 14.512 | - | 0.000 | - | 0.000 | - | - | - | - |

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Exhibit P-1M, Procurement Programs - Modification Summary

## UNCLASSIFIED

Air Force • Budget Estimates FY 2022 • Procurement Exhibit P-1M, Procurement Programs - Modification Summary
(Funding for Modifications)

| Modification P-40a Item Title P-3a Modification Title | PYS | FY 2020 | FY 2021 | $\begin{gathered} \text { FY } 2022 \\ \text { Base } \end{gathered}$ | $\begin{gathered} \text { FY } 2022 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \text { FY } 2022 \\ \text { Total } \end{gathered}$ | FY 2023 | FY 2024 | FY 2025 | FY 2026 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| MOD V IFF | 42.100 | - | - | - | - | - | - | - | - | - |
| C-130 CRASHWORTHY LOADMASTER SEAT | 1.853 | - | - | - | - | - | - | - | - | - |
| C-130 Aux Hyd Pump | 16.599 | - | - | - | - | - | - | - | - | - |
| C-130H Avionics Modernization Program (AMP) Increment 1 | 83.943 | 7.185 | - | 0.000 | - | 0.000 | - | - | - | - |
| T-56 3.5 Engine Mod | 261.000 | 79.000 | 79.000 | - | - | - | - | - | - | - |
| Onboard Fire Incident Response Equipment | 144.429 | 5.538 | - | 0.100 | - | 0.100 | - | - | - | - |
| HC-130P/N Variable Speed Drogue (VSD) | 1.410 | - | - | - | - | - | - | - | - | - |
| Electronic Propeller Control System (EPCS) | 141.770 | - | - | - | - | - | - | - | - | - |
| In-Flight Propeller Balancing System (IPBS) | 1.500 | - | - | - | - | - | - | - | - | - |
| C-130H Simulator | 25.000 | 15.675 | - | 7.128 | - | 7.128 | - | - | - | - |
| AFSOC C-130 Mods | 14.705 | 7.937 | - | - | - | - | - | - | - | - |
| MAFFS | - | - | 4.600 | - | - | - | - | - | - | - |
| LOW COST SAFETY MODIFICATIONS | 3.034 | - | - | - | - | - | - | - | - | - |
| HC-130 Low Cost Mods | 1.907 | - | - | - | - | - | - | - | - | - |
| MISC SIMULATOR UPDATES | 0.703 | - | - | - | - | - | - | - | - | - |
| Low Cost Modifications | 11.648 | 1.219 | 1.980 | 1.839 | - | 1.839 | - | - | - | - |
| Avionics System and Structural Modifications | 27.628 | 4.990 | 0.750 | 0.200 | - | 0.200 | - | - | - | - |
| Wind Gust Brake | 39.849 | - | - | - | - | - | - | - | - | - |
| WST Threat Generators | 0.796 | - | 5.948 | - | - | - | - | - | - | - |
| Low Cost Modifications | 10.210 | 0.650 | 0.750 | 0.200 | - | 0.200 | - | - | - | - |
| VOR/ILS ANTENNAE | 9.285 | 0.001 | 0.001 | 0.001 | - | 0.001 | - | - | - | - |
| ADS-B | 14.019 | - | - | - | - | - | - | - | - | - |

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Exhibit P-1M, Procurement Programs - Modification Summary

## UNCLASSIFIED

Air Force • Budget Estimates FY 2022 • Procurement Exhibit P-1M, Procurement Programs - Modification Summary
(Funding for Modifications)

| Modification P-40a Item Title P-3a Modification Title | PYS | FY 2020 | FY 2021 | $\text { FY } 2022$ <br> Base | $\begin{gathered} \text { FY } 2022 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \text { FY } 2022 \\ \text { Total } \end{gathered}$ | FY 2023 | FY 2024 | FY 2025 | FY 2026 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| KC-135 AERO-I SATCOM replacement | 0.000 | 28.581 | 16.274 | 1.782 | - | 1.782 | - | - | - | - |
| Real Time in the Cockpit (RTIC) | 26.200 | 18.200 | 0.000 | 0.000 | - | 0.000 | - | - | - | - |
| LOW COST SAFETY MODIFICATIONS | 0.025 | 0.025 | 0.025 | 0.025 | - | 0.025 | - | - | - | - |
| Low Cost Modifications | 13.479 | 0.995 | 1.995 | 1.995 | - | 1.995 | - | - | - | - |
| COMPASS CALL | 36.366 | - | 11.300 | - | - | - | - | - | - | - |
| CONSTANT PHOENIX | 208.290 | 7.937 | - | - | - | - | - | - | - | - |
| BLOCK 40/45 UPGRADE | 658.246 | - | - | 0.000 | - | 0.000 | - | - | - | - |
| AWACS Mode 5 Acceleration | - | 1.907 | 0.823 | 1.132 | - | 1.132 | - | - | - | - |
| NEXT GENERATION IDENTIFICATION FRIEND OR FOE (IFF) | 56.833 | - | - | - | - | - | - | - | - | - |
| AETC MTD UPGRADES-FIELD TRAINING DETACHMENTS | 8.406 | 0.719 | 0.700 | 0.700 | - | 0.700 | - | - | - | - |
| RM\&A Mod | 22.294 | 0.328 | 0.320 | - | - | - | - | - | - | - |
| VERTICAL STABILIZER AND RUDDER | 1.816 | - | - | - | - | - | - | - | - | - |
| LOW COST MOD - AIRFRAME | 4.448 | 1.999 | 1.999 | 0.999 | - | 0.999 | - | - | - | - |
| LOW COST MOD - AVIONICS \& MISSION SYSTEMS | 4.448 | 1.999 | 1.999 | 0.999 | - | 0.999 | - | - | - | - |
| Low Cost Mod - Communications | - | - | 1.999 | 0.999 | - | 0.999 | - | - | - | - |
| Low Cost Mod - Human Systems | - | - | 1.999 | 0.999 | - | 0.999 | - | - | - | - |
| NPES (NC2AIS) E-4B | 2.730 | - | - | - | - | - | - | - | - | - |
| Survivable SHF | - | - | 0.045 | 1.556 | - | 1.556 | - | - | - | - |
| MUOS | 0.000 | 3.307 | 0.233 | 4.559 | - | 4.559 | - | - | - | - |
| SHF Modernization | 120.088 | - | - | - | - | - | - | - | - | - |
| Low Frequency Transmit System (LFTS) | 78.235 | 34.248 | 20.018 | - | - | - | - | - | - | - |
| CNS/ATM(ADS-B OUT) | 9.978 | 0.000 | - | - | - | - | - | - | - | - |

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Air Force • Budget Estimates FY 2022 • Procurement Exhibit P-1M, Procurement Programs - Modification Summary
(Funding for Modifications)

| Modification P-40a Item Title P-3a Modification Title | PYS | FY 2020 | FY 2021 | $\text { FY } 2022$ <br> Base | $\begin{gathered} \text { FY } 2022 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \text { FY } 2022 \\ \text { Total } \end{gathered}$ | FY 2023 | FY 2024 | FY 2025 | FY 2026 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| SERVICE BULLETINS | 12.864 | 0.067 | 5.719 | 1.186 | - | 1.186 | - | - | - | - |
| Low Cost Modifications | 12.340 | 1.990 | 1.990 | 1.990 | - | 1.990 | - | - | - | - |
| Distributed Mission Ops Center (DMOC) | - | 4.029 | - | - | - | - | - | - | - | - |
| JSTARS OCO Requirements | 13.000 | - | - | - | - | - | - | - | - | - |
| JSTARS Re-engining | - | 20.000 | - | - | - | - | - | - | - | - |
| Control Display Unit (CDU) | 31.744 | - | - | - | - | - | - | - | - | - |
| Navigation System Upgrade (NSU) | 65.492 | 1.298 | 1.310 | - | - | - | - | - | - | - |
| Multi-function Color Display | 43.301 | 2.610 | 4.210 | 1.600 | - | 1.600 | - | - | - | - |
| MODE 5 | 32.262 | 2.148 | 3.624 | 0.310 | - | 0.310 | - | - | - | - |
| CSAR Avionics/Electrical Upgrade | 18.037 | 0.324 | 0.160 | - | 0.000 | 0.000 | - | - | - | - |
| HH-60 OLR Mission Modifications | 452.721 | 12.643 | 1.710 | 1.570 | - | 1.570 | - | - | - | - |
| Block 162 | 48.420 | 3.370 | 0.250 | - | - | - | - | - | - | - |
| DVE Sensor | 26.580 | 3.186 | 18.200 | - | - | - | - | - | - | - |
| HH-60 DATALINKS | 27.839 | 0.550 | 3.344 | - | - | - | - | - | - | - |
| HH-60G Communication Suite Control Integration | 5.490 | - | - | - | - | - | - | - | - | - |
| Low Cost Modifications | 7.772 | 0.750 | 0.120 | 2.429 | - | 2.429 | - | - | - | - |
| MC/AC-Communications Modernization Phase I | - | - | - | 1.937 | - | 1.937 | - | - | - | - |
| MC-Low Cost Modifications | - | - | - | 0.500 | - | 0.500 | - | - | - | - |
| Full Combat Mission Training | 76.404 | 0.000 | 4.595 | 0.000 | - | 0.000 | - | - | - | - |
| MAF Training | 33.686 | 0.100 | 16.505 | 0.097 | - | 0.097 | - | - | - | - |
| ATP upgrade Legacy to SE | 106.217 | 29.861 | 25.926 | 0.227 | - | 0.227 | - | - | - | - |
| DAS000 (ROBE) | 10.400 | - | - | - | - | - | - | - | - | - |
| Counterdrug USSOUTHCOM Support | 1.200 | - | - | - | - | - | - | - | - | - |

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Air Force • Budget Estimates FY 2022 • Procurement Exhibit P-1M, Procurement Programs - Modification Summary
(Funding for Modifications)

| Modification P-40a Item Title P-3a Modification Title | PYS | FY 2020 | FY 2021 | $\text { FY } 2022$ <br> Base | $\begin{gathered} \text { FY } 2022 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \text { FY } 2022 \\ \text { Total } \end{gathered}$ | FY 2023 | FY 2024 | FY 2025 | FY 2026 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| MISCELLANEOUS LOW COSTS MODS (Combat Developments) | 142.935 | 4.616 | 0.154 | 0.157 | - | 0.157 | - | - | - | - |
| HH-60U | 3.608 | 1.900 | 1.897 | 1.861 | - | 1.861 | - | - | - | - |
| C-40-SLC3SA | - | - | - | 3.570 | - | 3.570 | - | - | - | - |
| VC-25A - SLC3SA | - | - | - | 0.098 | - | 0.098 | - | - | - | - |
| Exhibit P-3a |  |  |  |  |  |  |  |  |  |  |
| B-2 Trainer System Upgrade | 52.712 | 0.000 | 6.465 | 6.573 | 0.000 | 6.573 | - | - | - | - |
| LOW OBSERVABLE SIGNATURE AND SUPPORTABILITY MODS | 72.405 | 0.276 | 19.194 | 16.389 | 0.000 | 16.389 | - | - | - | - |
| Fully Integrated Data Links | 406.100 | 4.405 | 1.190 | 6.999 | 0.000 | 6.999 | - | - | - | - |
| CITS UPGRADE | 124.162 | 0.000 | 1.093 | 5.046 | 0.000 | 5.046 | - | - | - | - |
| VERTICAL SITUATION DISPLAYS | 292.106 | 0.000 | 0.943 | 8.213 | 0.000 | 8.213 | - | - | - | - |
| MIDS-JTRS | 0.000 | 0.000 | 11.520 | 6.977 | 0.000 | 6.977 | - | - | - | - |
| B-52 Combat Network Communications Technology | 605.536 | 14.489 | 0.000 | 15.737 | 0.000 | 15.737 | - | - | - | - |
| Bomber Tactical Data link | 0.000 | 11.934 | 11.164 | 25.841 | 0.000 | 25.841 | - | - | - | - |
| B-52 Low Cost Improvements | 7.071 | 0.000 | 2.457 | 8.925 | 0.000 | 8.925 | - | - | - | - |
| B-52 VLF/LF Modernization | 0.000 | 0.000 | 0.000 | 20.137 | 0.000 | 20.137 | - | - | - | - |
| Distributed Aperture Infrared Countermeasures | - | 0.000 | 0.000 | 61.191 | 0.000 | 61.191 | - | - | - | - |
| LARGE AIRCRAFT INFRARED COUNTERMEASURES C-130J | 165.410 | 53.335 | 38.821 | 57.001 | 0.000 | 57.001 | - | - | - | - |
| ONBOARD OXYGEN GENERATING SYSTEM (OBOGS) | 25.981 | 2.500 | 4.700 | 9.500 | 0.000 | 9.500 | - | - | - | - |
| ARC-210 | 0.000 | 8.600 | 18.350 | 32.300 | 0.000 | 32.300 | - | - | - | - |
| A-10 High Resolution Display System (HRDS) | 0.000 | 5.763 | 0.500 | 20.173 | 0.000 | 20.173 | - | - | - | - |
| 3-Dimensional Audio (3DA) | 0.000 | 1.000 | 5.300 | 9.300 | 0.000 | 9.300 | - | - | - | - |

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Exhibit P-1M, Procurement Programs - Modification Summary

## UNCLASSIFIED

Air Force • Budget Estimates FY 2022 • Procurement Exhibit P-1M, Procurement Programs - Modification Summary
(Funding for Modifications)

| Modification P-40a Item Title P-3a Modification Title | PYS | FY 2020 | FY 2021 | FY 2022 Base | $\begin{gathered} \text { FY } 2022 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \text { FY } 2022 \\ \text { Total } \end{gathered}$ | FY 2023 | FY 2024 | FY 2025 | FY 2026 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| E-11 Mods | 0.000 | 68.027 | 29.645 | 68.955 | 0.000 | 68.955 | - | - | - | - |
| F-15E Radar Modernization Program APG-82(V)1 | 1,504.840 | 155.582 | 110.088 | 54.197 | 0.000 | 54.197 | - | - | - | - |
| Advanced Display Core Processor, ADCP II-E | 96.777 | 49.187 | 43.956 | 78.129 | 0.000 | 78.129 | - | - | - | - |
| F-15E MIDS JTRS | 34.023 | 34.576 | 29.011 | 38.588 | 0.000 | 38.588 | - | - | - | - |
| F-15 C/D SLEP Longerons | 12.923 | 21.627 | 6.333 | 25.923 | 0.000 | 25.923 | - | - | - | - |
| F-15 F-15 E/MUOS | - | 0.630 | 0.000 | 8.667 | 0.000 | 8.667 | - | - | - | - |
| F-15E DTM II | - | 0.000 | 0.000 | 7.527 | 0.000 | 7.527 | - | - | - | - |
| F-15E Digital Color Display | - | 0.000 | 0.000 | 15.100 | 0.000 | 15.100 | - | - | - | - |
| MMC and Display Generator Upgrade | 0.000 | 0.000 | 15.386 | 37.754 | 0.000 | 37.754 | - | - | - | - |
| F-16 LEGACY STRUCTURAL SLEP | 49.566 | 45.050 | 85.751 | 100.120 | 0.000 | 100.120 | - | - | - | - |
| Comm Suite Upgrade | 52.142 | 18.610 | 57.689 | 70.021 | 0.000 | 70.021 | - | - | - | - |
| HFLCC AGCAS | 26.688 | 17.043 | 25.917 | 17.577 | 0.000 | 17.577 | - | - | - | - |
| AIFF MODE 5 | 0.273 | 0.000 | 0.000 | 13.088 | 0.000 | 13.088 | - | - | - | - |
| AESA Radars | 274.322 | 159.394 | 342.196 | 317.164 | 0.000 | 317.164 | - | - | - | - |
| Digital Radar Warning Receiver (RWR) | 0.000 | 0.000 | 16.187 | 49.964 | 0.000 | 49.964 | - | - | - | - |
| F-16 TRAINING SYSTEMS | 14.692 | 6.302 | 42.746 | 6.492 | 0.000 | 6.492 | - | - | - | - |
| Reliability and Maintainability Program | 1,461.470 | 53.568 | 68.839 | 153.006 | 0.000 | 153.006 | - | - | - | - |
| Link 16 | 86.229 | 46.031 | 153.883 | 52.702 | 0.000 | 52.702 | - | - | - | - |
| Trainers Modernization | 93.801 | 31.340 | 4.866 | 17.208 | 0.000 | 17.208 | - | - | - | - |
| Sensor Enhancement | - | 49.002 | 122.283 | 196.825 | 0.000 | 196.825 | - | - | - | - |
| Block 3i LRIP 2-5 Upgrade | 208.635 | 8.171 | 0.000 | 0.000 | 0.000 | 0.000 | - | - | - | - |
| Block 3F LRIP 2-5 Upgrade | 9.341 | 0.250 | 0.000 | 0.000 | 0.000 | 0.000 | - | - | - | - |
| Block 3F LRIP 6-8 Upgrade | 0.056 | 2.800 | 0.000 | 0.000 | 0.000 | 0.000 | - | - | - | - |

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Exhibit P-1M, Procurement Programs - Modification Summary

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Air Force • Budget Estimates FY 2022 • Procurement Exhibit P-1M, Procurement Programs - Modification Summary
(Funding for Modifications)

| Modification P-40a Item Title P-3a Modification Title | PYS | FY 2020 | FY 2021 | $\begin{gathered} \text { FY } 2022 \\ \text { Base } \end{gathered}$ | $\begin{aligned} & \text { FY } 2022 \\ & \text { OcO } \end{aligned}$ | $\begin{gathered} \text { FY } 2022 \\ \text { Total } \end{gathered}$ | FY 2023 | FY 2024 | FY 2025 | FY 2026 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Concurrency | 613.443 | 206.324 | 135.576 | 1.060 | 0.000 | 1.060 | - | - | - | - |
| Correction of Deficiencies | 4.612 | 92.965 | 122.194 | 122.518 | 0.000 | 122.518 | - | - | - | - |
| Block 4 Modifications | - | 19.080 | 38.062 | 180.557 | 0.000 | 180.557 | - | - | - | - |
| EPAWSS F-15E | 149.797 | 125.417 | 0.000 | 149.797 | 0.000 | 149.797 | - | - | - | - |
| INCREMENT 3.2B | 275.746 | 20.213 | 5.889 | 0.000 | 0.000 | 0.000 | - | - | - | - |
| Mission Computer and Weather Radar | 64.602 | 16.238 | 10.473 | 11.844 | 0.000 | 11.844 | - | - | - | - |
| C-5M Communication Navigation Surveillance/Air Traffic Management (CNS/ATM) | 17.433 | 31.346 | 26.940 | 5.101 | 0.000 | 5.101 | - | - | - | - |
| Replacement Heads Up Display (RHUD) | 41.270 | 46.630 | 33.599 | 36.307 | 0.000 | 36.307 | - | - | - | - |
| Beyond Line of Sight (BLOS) | 0.513 | 2.939 | 1.367 | 11.171 | 0.000 | 11.171 | - | - | - | - |
| SAT 906 | - | - | - | 5.984 | 0.000 | 5.984 | - | - | - | - |
| Pacer Classic III | 218.019 | 33.363 | 31.537 | 40.379 | 0.000 | 40.379 | - | - | - | - |
| Talon Repair, Inspection and Maintenance | 1.829 | 2.961 | 2.685 | 6.364 | 0.000 | 6.364 | - | - | - | - |
| U-2 Mod | 157.711 | 58.563 | 72.080 | 57.043 | 0.000 | 57.043 | - | - | - | - |
| ASARS-2B Procurement for U-2 | - | - | 48.138 | 69.766 | 0.000 | 69.766 | - | - | - | - |
| C -130H Avionics Modernization Program (AMP) Increment 2 | 0.000 | 0.000 | 0.000 | 20.004 | 0.000 | 20.004 | - | - | - | - |
| BLOCK 8.1 | 329.725 | 90.979 | 115.790 | 87.130 | 0.000 | 87.130 | - | - | - | - |
| C-130J Center Wing Replacement | 117.064 | 25.683 | 13.394 | 23.254 | 0.000 | 23.254 | - | - | - | - |
| BLOCK 45 | 303.592 | 47.617 | 60.185 | 48.794 | 0.000 | 48.794 | - | - | - | - |
| Rudder Position Indicator (RPI) | 6.364 | 17.932 | 3.870 | 8.779 | 0.000 | 8.779 | - | - | - | - |
| COMPASS CALL Baseline Modifications | 464.607 | 110.539 | 169.683 | 195.098 | 0.000 | 195.098 | - | - | - | - |
| COBRA BALL | 26.204 | 12.177 | 12.414 | 12.656 | 0.000 | 12.656 | - | - | - | - |
| RIVET JOINT | 700.594 | 197.574 | 168.952 | 184.749 | 0.000 | 184.749 | - | - | - | - |

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Exhibit P-1M, Procurement Programs - Modification Summary

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Air Force • Budget Estimates FY 2022 • Procurement Exhibit P-1M, Procurement Programs - Modification Summary
(Funding for Modifications)

| Modification P-40a Item Title P-3a Modification Title | PYS | FY 2020 | FY 2021 | FY 2022 Base | $\begin{gathered} \text { FY } 2022 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \text { FY } 2022 \\ \text { Total } \end{gathered}$ | FY 2023 | FY 2024 | FY 2025 | FY 2026 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| COMBAT SENT | 46.956 | 9.985 | 9.966 | 10.191 | 0.000 | 10.191 | - | - | - | - |
| Communication Networking Upgrade (CNU) | 0.000 | 2.879 | 27.589 | 24.395 | 0.000 | 24.395 | - | - | - | - |
| E-3 DRAGON | 155.435 | 68.290 | 69.893 | 48.129 | 0.000 | 48.129 | - | - | - | - |
| IP-enabled Capability (IPEC) | 87.893 | 23.971 | 10.747 | 13.612 | 0.000 | 13.612 | - | - | - | - |
| AWACS Communications Integration Program (ACIP) | - | 0.000 | 0.000 | 17.891 | 0.000 | 17.891 | - | - | - | - |
| AEHF Compatible Terminal/PNVC | 8.124 | 13.365 | 16.135 | 9.790 | 0.000 | 9.790 | - | - | - | - |
| Common Data Link | 5.000 | 24.749 | 14.436 | 8.711 | 0.000 | 8.711 | - | - | - | - |
| SATCOM/MUOS Radios | - | - | 7.601 | 7.601 | 0.000 | 7.601 | - | - | - | - |
| BLOCK 40/45 BLOCK UPGRADE | 805.139 | 32.821 | 53.343 | 30.327 | 0.000 | 30.327 | - | - | - | - |
| DEFENSIVE SYSTEM UPGRADE | 55.589 | 0.000 | 1.800 | 7.800 | 0.000 | 7.800 | - | - | - | - |
| GH Aircraft Mods | 532.794 | 1.704 | 3.350 | 3.205 | 0.000 | 3.205 | - | - | - | - |
| GH Ground Station Mods | 15.523 | - | - | - | - | - | - | - | - | - |
| ASIP Increment I | 37.154 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | - | - | - | - |
| SAR | 0.910 | - | - | - | - | - | - | - | - | - |
| ASIP Install/Calibration | 4.834 | - | - | - | - | - | - | - | - | - |
| MODE 5/ADS-B | 6.267 | 0.000 | 0.000 | - | - | - | - | - | - | - |
| Sensor Enhancements | 29.382 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | - | - | - | - |
| Communication Interoperability/Enhancements | 3.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | - | - | - | - |
| HC/MC-130J Block 8.1 | 9.492 | 0.000 | 0.000 | 15.870 | 0.000 | 15.870 | - | - | - | - |
| MC-130J Increment 2 | 39.379 | 0.000 | 0.000 | 0.285 | 0.000 | 0.285 | - | - | - | - |
| HC-130J Common Configuration | 44.809 | 0.000 | 0.574 | 0.001 | 0.000 | 0.001 | - | - | - | - |
| HC-130J Personnel Locator System | 17.468 | 0.000 | 2.021 | 0.003 | 0.000 | 0.003 | - | - | - | - |
| HC-130J Situational Awareness | 66.966 | 15.349 | 22.521 | 2.837 | 0.000 | 2.837 | - | - | - | - |

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Exhibit P-1M, Procurement Programs - Modification Summary

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Air Force • Budget Estimates FY 2022 • Procurement Exhibit P-1M, Procurement Programs - Modification Summary
(Funding for Modifications)

| Modification P-40a Item Title P-3a Modification Title | PYS | FY 2020 | FY 2021 | $\begin{gathered} \text { FY } 2022 \\ \text { Base } \end{gathered}$ | $\begin{gathered} \text { FY } 2022 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \text { FY } 2022 \\ \text { Total } \end{gathered}$ | FY 2023 | FY 2024 | FY 2025 | FY 2026 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Wireless Intercom | 11.759 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | - | - | - | - |
| (AbMN) Airborne Mission Networking | 25.576 | 26.471 | 16.771 | 45.195 | 0.000 | 45.195 | - | - | - | - |
| ADS-B out Acceleration | 2.175 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | - | - | - | - |
| (RFCM) Radio Frequency Countermeasures | 62.529 | 0.000 | 28.900 | 0.000 | 0.000 | 0.000 | - | - | - | - |
| Paratroop Door | 24.500 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | - | - | - | - |
| Broadband Antenna | 9.400 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | - | - | - | - |
| MC-130J Link 16 | 0.000 | 0.000 | 4.420 | 0.000 | 0.000 | 0.000 | - | - | - | - |
| Trainer Modifications | - | 0.000 | 0.000 | 83.617 | 0.000 | 83.617 | - | - | - | - |
| HC- Low Cost Modifications | 8.503 | 0.000 | 1.366 | 0.018 | 0.000 | 0.018 | - | - | - | - |
| ATP-SE Technology Insertion | 87.376 | 13.621 | 13.846 | 13.851 | 0.000 | 13.851 | - | - | - | - |
| Battlefield ABN Comm Node (BACN) | 15.115 | 0.000 | 37.851 | 38.635 | 0.000 | 38.635 | - | - | - | - |
| Block 5 | 74.752 | 1.515 | 0.000 | 0.000 | 0.000 | 0.000 | - | - | - | - |
| MQ-9 Field | 299.052 | 13.222 | 26.244 | 0.275 | 0.000 | 0.275 | - | - | - | - |
| Lynx SAR | 96.137 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | - | - | - | - |
| GCS BIk 30 | 184.815 | 2.707 | 17.648 | 0.000 | 0.000 | 0.000 | - | - | - | - |
| R\&M enhancements | 74.304 | 9.114 | 7.782 | 4.690 | 0.000 | 4.690 | - | - | - | - |
| Extended Range MQ-9 | 290.276 | 51.362 | 11.695 | 6.350 | 0.000 | 6.350 | - | - | - | - |
| MQ-9 Upgrade | 289.155 | 176.494 | 89.642 | 130.972 | 0.000 | 130.972 | - | - | - | - |
| MQ-9 Low Cost Mods | 14.570 | 0.000 | 2.000 | 2.000 | 0.000 | 2.000 | - | - | - | - |
| Gorgon Stare | 50.905 | 19.800 | 63.500 | 40.800 | 0.000 | 40.800 | - | - | - | - |
| C-32-SLC3SA | - | 0.000 | 0.000 | 6.437 | 0.000 | 6.437 | - | - | - | - |
| C-37-SLC3SA | - | 0.000 | 0.000 | 13.449 | 0.000 | 13.449 | - | - | - | - |
| Block 20 Upgrade | 318.962 | 63.349 | 117.397 | 156.163 | 0.000 | 156.163 | - | - | - | - |

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Exhibit P-1M, Procurement Programs - Modification Summary

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Air Force • Budget Estimates FY 2022 • Procurement
Exhibit P-1M, Procurement Programs - Modification Summary
(Funding for Modifications)

| Modification P-40a Item Title P-3a Modification Title | PYS | FY 2020 | FY 2021 | $\begin{aligned} & \text { FY } 2022 \\ & \text { Base } \end{aligned}$ | $\begin{gathered} \text { FY } 2022 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \text { FY } 2022 \\ \text { Total } \end{gathered}$ | FY 2023 | FY 2024 | FY 2025 | FY 2026 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Low Cost Modifications | 21.405 | 1.999 | 1.999 | 1.999 | 0.000 | 1.999 | - | - | - | - |
| Totals (Total Obligation Authority) |  |  |  |  |  |  |  |  |  |  |
| Total Obligation Authority | 21,886.794 | 3,389.118 | 3,728.286 | 3,777.035 | 0.000 | 3,777.035 | 0.000 | 0.000 | 0.000 | 0.000 |

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## ACRONYMS

| GENERAL ACRONYMS |  |
| :--- | :--- |
| A\&AS | - Advisory \& Assistance Services |
| ABIDES | - Automated Budget Interactive Data Environment System |
| ACAT | - Acquisition Category |
| ACTD | - Advanced Concept Technology Demonstration |
| AGM | - Air-to-Ground Missile |
| AIM | - Air Intercept Missile |
| AIS | - Avionics Intermediate Shop |
| ACMI | - Aircraft Combat Maneuvering Instrumentation |
| AMRAAM | - Advanced Medium-Range Air-to-Air Missile |
| APPN | - Appropriation |
| ATD | - Advanced Technology Development |
| BA | - Budget Activity |
| BES | - Budget Estimate Submission |
| BY | - Budget Year |
| C3 | - Command, Control, and Communication System |
| CFE | - Concept of Opernished Equipment |
| CONOPS | - Continental United States |
| CONUS | - Comprehensive Power Management System |
| CPMS | - Cockpit Procedures Trainer |
| CPT | - Continuing Resolution Authority |
| CRA | - Countermeasures Test Set |
| CTS | - Current Year |
| CY | - Electronic Counter Counter-Measures |
| ECCM | - Electronic Counter Measures |
| ECM | - Engineering Change Orders |
| ECO | - Economic Order Quantity |
| EOQ | - Engineering Change Proposal |
| ECP | - Economic Price Adjustment |
| EPA | - Electronic Warfare |
| EW | - Electronic Warfare Avionics Integration Support Facility |
| EWAISP | - Forward Looking Infra Red |
| FLIR |  |
|  |  |


| FOT\&E | - Follow-on Test and Evaluation |
| :--- | :--- |
| FOC | - Fully Operational Capability |
| FLTS | - Flight Line Test Set |
| FPIF | - Fixed Price Incentive Firm |
| FPIS | - Fixed Price Incentive Fee, Successive Targets |
| FY | - Fiscal Year |
| GANS | - Global Access Navigation \& Safety |
| GATM | - Global Air Traffic Management |
| GFE | - Government Furnished Equipment |
| GFP | - Government Furnished Property |
| GPS | - Global Positioning System |
| GSE | - Ground Support Equipment |
| ICS | - Interim Contractor Support |
| IOC | - Initial Operating Capability |
| IT | - Information Technology |
| JUON | - Joint Urgent Operational Need |
| MAIS | - Major Automated Information System Program |
| MDAP | - Major Defense Acquisition Program |
| METS | - Mobile Electronic Test Stations |
| MYP | - Multiyear Procurement |
| NAVWAR | - Navigation Warfare |
| NMC Rate | - Not Mission Capable Rate |
| OCO | - Overseas Contingency Operations |
| OT\&E | - Operational Test and Evaluation |
| OWRM | - Other War Reserve Material |
| PAGEL | - Priced Aerospace Ground Equipment List |
| PB | - President's Budget |
| PBR | - Program Budget Review |
| PMA | - Program Management Administration |
| PMC | - Procurement Method Code |
| PNO | - Acquisition Program Number (MDAP Codes) |
| PR | - Purchase Request |
| PRCP | - Program Resource Collection Process |
| PTT | - Part Task Trainer |
| PY | - Prior Year |
| R\&M | - Reliability and Maintainability |
|  |  |


| RAA | - Rapid Acquisition Authority |
| :--- | :--- |
| RDT\&E | - Research, Development, Test and Evaluation |
| RWR | - Radar Warning Receiver |
| ROM | - Rough Order of Magnitude |
| SS | - Sole Source |
| SOF | - Special Operation Force |
| TAF | - Tactical Air Force |
| TCAS | - Tactic Collision Alert and Avoctronic Warfare System |
| TEWS | - TEWS Intermediate Support System |
| TISS | - Total Obligation Authority |
| TOA | - Working Capital Fund |
| WCF | - War Reserve Material |
| WRM | - Weapon System Trainer |
| WST | - Unmanned Aerial Vehicle |
| UAV | - Extensible Markup Language |
| XML |  |

## BASE / ORGANIZATIONAL ACRONYMNS

| ACC | - Air Combat Command |
| :--- | :--- |
| AETC | - Air Education \& Training Command |
| AFCAO | - Air Force Computer Acquisition Office |
| AFCESA | - Air Force Civil Engineering Support Agency |
| AFCIC | - AF Communications \& Information Center |
| AFCSC | - Air Force Cryptologic Service Center |
| AFESC | - Air Force Engineering Services Center |
| AFGWC | - Air Force Global Weather Central |
| AFIT | - Air Force Institute of Technology |
| AFLCMC | - Air Force Life Cycle Management Center |
| AFMC | - Air Force Materiel Command |
| AFMETCAL | - Air Force Metrology and Calibration Office |
| AFMLO | - Air Force Medical Logistics Office |
| AFOSI | - Air Force Office of Special Investigation |
| AFOTEC | - Air Force Operational Test \& Evaluation Center |
| AFPC | - Air Force Personnel Center |
| AFPSL | - AF Primary Standards Lab |


| AFR | - Air Force Reserve |
| :--- | :--- |
| AFSOC | - AF Special Operations Command |
| AFSPC | - Air Force Space Command |
| AIA | - Air Intelligence Agency |
| ALC | - Air Logistics Center |
| AMC | - Air Mobility Command |
| ANG | - Air National Guard |
| ASC | - Aeronautical Systems Center |
| AETC | - Air Education Training Command |
| AU | - Air University |
| AWS | - Air Weather Service |
| CIA | - Central Intelligence Agency |
| DGSC | - Defense General Support Center |
| DLA | - Department of Energy |
| DOE | - Defense Personnel Support Center |
| DPSC | - Defense Supply Center, Columbus |
| DSCC | - Defense Technical Information Center |
| DTIC | - Eastern Range |
| ER | - Electronic Systems Center |
| ESC | - Federal Aviation Agency |
| FAA | - Gederal Bureau of Investigation |
| FBI | - Jeineral Services Administration |
| GSA | - North Atlantic Traff |
| JCS | - Office of the Secretary Organization Defense |
| NATO | - Pacific Air Forces |
| OSD | - United States Air Force |
| PACAF | - United States Air Force Academy |
| USAF | - United States Air Force Europe |
| USAFA | - United States Central Command |
| USAFE | - United States European Command |
| USCENTCOM | - United States Marine Corps |
| USEUCOM | - United States Strategic Command |
| USMC | - Wright-Patterson AFB, OH |
| USSTRATCOM |  |

## UNCLASSIFIED

| CONTRACT METHOD / TYPE ACRONYMNS |  |
| :--- | :--- |
| C | - Competitive |
| BA | - Basic Agreement |
| BOA | - Basic Ordering Agreement |
| BPA | - Blanket Purchasing Agreement |
| CS | - Cost Sharing |
| IDDQ | - Indefinite Delivery, Definite Quantity |
| IDIQ | - Indefinite Delivery, Indefinite Quantity |
| IDRT | - Indefinite Delivery, Requirements |
| Letter | - Letter |
| LH | - Labor-hour |
| MIPR | - Military Interdepartmental Purchase Request |
| MIPR-C | - Military Interdepartmental Purchase Request - Competitive |
| MIPR-OPT | - Military Interdepartmental Purchase Request - Option |
| MIPR-OTH | - Military Interdepartmental Purchase Request - Other |
| MPR-SS | - Military Interdepartmental Purchase Request - Sole Source |
| OPT | - Option |
| OTH | - Other |
| PO | - Project Order |
| REQN | - Requisition |
| SS | - Sole Source |
| T\&M | - Time and Materials |
| UCA | - Undefinitized Contract Action |
| WP | - Work Project |

## CONTRACTED BY ACRONYMNS

| 11 WING | - 11th Support Wing, Washington, DC |
| :--- | :--- |
| ACC | - Air Combat Command, Langley AFB, VA |
| AEDC | - Arnold Engineering Development Center, Arnold AFB, TN |
| AAC | - Air Armament Center, Eglin AFB, FL |
| AEDC | - Arnold Engineering Development Center, Arnold AFB, TN |
| AETC | - Air Education and Training Command, Randolph AFB, TX |
| AFCIC | - Air Force Communications and Information Center, Washington, DC |
| AFCESA | - Air Force Civil Engineering Support Agency, Tyndall AFB, FL |
| AFFTC | - Air Force Flight Test Center, Edwards AFB, CA |

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## UNCLASSIFIED

| AFLCMC | - Air Force Life Cycle Management Center, Wright-Patterson AFB, OH |
| :--- | :--- |
| AFMC | - Air Force Materiel Command, Wright-Patterson AFB, OH |
| AFMETCAL | - Air Force Metrology and Calibration Office, Heath, Ohio |
| AFMLO | - Air Force Medical Logistics Office, Ft Detrick, MD |
| AIA | - Air Intelligence Agency, Kelly AFB, TX |
| AMC | - Air Mobility Command, Scott AFB, IL |
| ASC | - Aeronautical Systems Center, Wright-Patterson AFB, OH \& Eglin AFB, FL |
| AFWA | - Air Force Weather Agency, Offutt AFB, NE |
| DGSC | - Defense General Support Center, Richmond, VA |
| DPSC | - Eastern Range, Patrick AFB, FL |
| ER | - Electronic Systems Center, Hanscom AFB, MA |
| ESC | - Human Services Center, Brook AFB, TX |
| HSC | - Oklahoma City Air Logistics Center, Tinker AFB, OK |
| OC-ALC | - Sgden Air Logistics Center, Hill AFB, UT |
| OO-ALC | - US Strategisic Command, Oystems Center, Los Angeles AFB, CA |
| SMC | - Washington Area Contracting Center, NE |
| US STRATCOMington DC |  |
| WACC | - Western Range, Vandenberg AFB, CA |
| WR | - Warner-Robins Air Logistics Center, Robins AFB, GA |
| WR-ALC | - Air Force Space Command, Peterson AFB, CO |
| AFSPC | - Headquarters, Air National Guard, Washington, DC |
| HQ ANG | - United States Air Force Europe, Ramstein AB, GE |
| USAFE | - United States Air Force Academy, Colorado Springs, CO |
| USAFA |  |

## IDENTIFICATION CODES

| Code "A" | - Line items of material which have been approved for Air Force service use. |
| :--- | :--- |
| Code "B" | - Line items of material that have not been approved for Service use |
| OBAN | - Operating Budget Account Number, 2-digit code for unit allocated funds |

UNCLASSIFIED

Exhibit P-40, Budget Line Item Justification: PB 2022 Air Force

| Appropriation / Budget Activity / Budget Sub Activity: |
| :--- |
| 3010F: Aircraft Procurement, Air Force / BA 05: Modification of Inservice Aircraft / |
| BSA 1: Strategic Aircraft |

## P-1 Line Item Number / Title: B00200 / B-2A

ID Code (A=Service Ready, B=Not Service Ready):
Line Item MDAP/MAIS Code: N/A

| Resource Summary | Prior <br> Years | FY 2020 | FY 2021 | FY 2022 Base | $\begin{gathered} \text { FY } 2022 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \text { FY } 2022 \\ \text { Total } \end{gathered}$ | FY 2023 | FY 2024 | FY 2025 | FY 2026 | To Complete | Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Procurement Quantity (Units in Each) | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Cost (\$ in Millions) | 356.195 | 9.582 | 30.819 | 29.944 | - | 29.944 | - | - | - | - | - | - |
| Less PY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Net Procurement (P-1) (\$ in Millions) | 356.195 | 9.582 | 30.819 | 29.944 | - | 29.944 | - | - | - | - | - | - |
| Plus CY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Total Obligation Authority (\$ in Millions) | 356.195 | 9.582 | 30.819 | 29.944 | - | 29.944 | - | - | - | - | - | - |
| (The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.) |  |  |  |  |  |  |  |  |  |  |  |  |
| Initial Spares (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Flyaway Unit Cost (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Unit Cost (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |

## Description:

 budgeted and programmed, are below.
 Tactical Data Link).
 safety and mission effectiveness.

## Description:

 budgeted and programmed, are below.
 Tactical Data Link).
 safety and mission effectiveness.


| Secondary Distribution |  | FY 2020 | FY 2021 | FY 2022 <br> Base | $\begin{aligned} & \text { FY } 2022 \\ & \text { OCO } \end{aligned}$ | $\begin{gathered} \text { FY } 2022 \\ \text { Total } \end{gathered}$ | FY 2023 | FY 2024 | FY 2025 | FY 2026 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| AF | Quantity | - | - | - | - | - | - | - | - | - |

## UNCLASSIFIED

| Exhibit P-40, Budget Line Item Justification: PB 2022 Air Force |  |  |  |  |  |  |  | Date: May 2021 |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: <br> 3010F: Aircraft Procurement, Air Force / BA 05: Modification of Inservice Aircraft / <br> BSA 1: Strategic Aircraft |  |  |  |  | P-1 Line Item Number / Title: B00200 / B-2A |  |  |  |  |  |
| ID Code (A=Service Ready, B=Not Service Ready: $\quad$ Program Elements for Code B Items: 0101125F, 0101127F |  | Program Elements for Code B Items: 0101125F, 0101127F |  |  |  |  | Other Related Program Elements: 0101127F |  |  |  |
| Line Item MDAP/MAIS Code: N/A |  |  |  |  |  |  |  |  |  |  |
| Secondary Distribution |  | FY 2020 | FY 2021 | $\begin{gathered} \hline \text { FY } 2022 \\ \text { Base } \end{gathered}$ | $\begin{aligned} & \text { FY } 2022 \\ & \text { OCO } \end{aligned}$ | $\begin{gathered} \text { FY } 2022 \\ \text { Total } \end{gathered}$ | FY 2023 | FY 2024 | FY 2025 | FY 2026 |
|  | Total Obligation Authority | 9.582 | 30.819 | 29.944 | - | 29.944 | - | - | - | - |
| AFNG | Quantity | - | - | - | - | - | - | - | - | - |
|  | Total Obligation Authority | - | - | - | - | - | - | - | - | - |
| Total: <br> Secondary Distribution | Quantity | - | - | - | - | - | - | - | - | - |
|  | Total Obligation Authority | 9.582 | 30.819 | 29.944 | - | 29.944 | - | - | - | - |

Exhibit P-40, Budget Line Item Justification: PB 2022 Air Force
Date: May 2021
Appropriation / Budget Activity / Budget Sub Activity:
3010F: Aircraft Procurement, Air Force / BA 05: Modification of Inservice Aircraft /
BSA 1: Strategic Aircraft

## P-1 Line Item Number / Title: B00200 / B-2A

Other Related Program Elements: 0101127F
Line Item MDAP/MAIS Code: N/A

| Exhibits Schedule |  |  |  |  | Prior Years | FY 2020 | FY 2021 | FY 2022 Base | FY 2022 OCO | FY 2022 Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Exhibit Type | Title* | Subexhibits | $\begin{array}{\|l\|} \hline \text { ID } \\ \text { CD } \end{array}$ | MDAP/ MAIS Code | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) |
| P-40a*** | 110032 / LINK 16/CID/IFR (Capability Improvement) |  |  |  | - /4.903 | - 10.200 | - 10.203 | - 10.203 | - 1- | - 10.203 |
| P-40a*** | 110043 / B-2 Adaptable Communications Suite (ACS) (Capability Improvement) |  |  |  | - / 23.422 | - 10.296 | - 10.300 | - 10.300 | - 1 | - 10.300 |
| P-40a*** | 110054 / B-2 Flex Strike Phase 1 (Capability Improvement) |  |  |  | - 123.730 | - 14.894 | - 12.172 | - 1 - | - 1 - | - 1 |
| P-40a*** | 110056 / B61-12 Integration (Capability Improvement) |  |  |  | - $/ 39.549$ | 1 | 1 | - 1 - | - 1 - | - 1 - |
| P-40a*** | 110057 / MGUE (Capability Improvement) |  |  |  | - /21.156 | - 10.990 | - 11.096 | - 10.314 | - 1 - | - 10.314 |
| P-40a*** | 110061 / IFF Mode 5/S (Capability Improvement) |  |  |  | 1 | - 1 | - 1 | - 12.843 | - 1 - | - 12.843 |
| P-40a*** | 110062 / Crash Survivable Memory Unit (CSMU) (Capability Improvement) |  |  |  | - 1 - | 1 | 1 | - /1.568 | - 1 | - 11.568 |
| P-40a*** | 110065 / B-2 GBU-57 MOP Integration (Capability Improvement) |  |  |  | - /21.494 | 1 | - 1 - | - 1 | - 1 - | - 1 |
| P-40a*** | 8882 / Common Very Low Frequency Terminal (Capability Improvement) |  |  |  | - / 58.760 | - 12.376 | 1 | - 1 | 1 | - 1 |
| P-40a*** | 99999U / B-2 Low Cost Engine Modifications (Reliability \& Maintainability) |  |  |  | - / 18.186 | - 10.236 | - 10.749 | - / 0.917 | - 1 - | - 10.917 |
| P-40a*** | 99999X / Low Cost Modifications (Capability Improvement) |  |  |  | - /19.878 | - 10.314 | - 10.640 | - 10.837 | - 1 - | - 10.837 |
| P-3a | 110031 / B-2 Trainer System Upgrade (Capability Improvement) |  | A |  | - / 52.712 | - 10.000 | - 16.465 | - 16.573 | - 10.000 | - 16.573 |
| P-3a | 110035 / LOW OBSERVABLE SIGNATURE AND SUPPORTABILITY MODS (Reliability \& Maintainability) |  | A |  | - 172.405 | - 10.276 | / 19.194 | - / 16.389 | - 10.000 | / 16.389 |
| P-40 | Total Gross/Weapon System Cost |  |  |  | - 1356.195 | - 19.582 | - $/ 30.819$ | - 129.944 | - 1 - | - 129.944 |

*** Although this is an Exhibit P-40a item, the actual exhibit is not included since all of the required information for this item is already being shown here.
*Title represents 1) the Number / Title for Items; 2) the Number / Title [DODIC] for Ammunition; and/or 3) the Number / Title (Modification Type) for Modifications
Note: Totals in this Exhibit P-40 set may not be exact or sum exactly due to rounding.

## Justification:

This program, P-3A Mod 110061, IFF Mode 5/S, is a new start.
This program, P-3A Mod 110062, Crash Survivable Memory Unit (CSMU), is a new start.
See individual P-3A's for FY22 Budget justification

Exhibit P-3a, Individual Modification: PB 2022 Air Force

## Appropriation / Budget Activity / Budget Sub Activity:

 3010F / 05/1
## P-1 Line Item Number / Title: B00200 / B-2A

ID Code (A=Serice Ready, B=Not Serice Ready) : A

## Modification Number / Title: <br> 110031 / B-2 Trainer System Upgrade

| MDAP/MAIS Code: |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Resource Summary | Prior Years | FY 2020 | FY 2021 | FY 2022 Base | FY 2022 OCO | FY 2022 Total |
| Procurement Quantity (Units in Each) | - | - | - | - | - | - |
| Gross/Weapon System Cost (\$ in Millions) | 52.712 | 0.000 | 6.465 | 6.573 | 0.000 | 6.573 |
| Less PY Advance Procurement (\$ in Millions) | - | - | - | - | - | - |
| Net Procurement (P-1) (\$ in Millions) | 52.712 | 0.000 | 6.465 | 6.573 | 0.000 | 6.573 |
| Plus CY Advance Procurement (\$ in Millions) | - | - | - | - | - | - |
| Total Obligation Authority (\$ in Millions) | 52.712 | 0.000 | 6.465 | 6.573 | 0.000 | 6.573 |
| (The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.) |  |  |  |  |  |  |
| Initial Spares (\$ in Millions) | - | - | - | - | - | - |
| Gross/Weapon System Unit Cost (\$ in Millions) | - | - | - | - | - | - |

## Description:





 based training (CBT) Weapon System Training Aids (WSTAs), and an instructor operator station.















 modification funds from PE 0809731F, specifically for the Maintenance Training System. These amounts are reflected on the P3-A in the "EQUIPMENT Group B (Active)" row.
 safety and mission effectiveness.

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| Exhibit P-3a, Individual Modification: PB 2022 Air Force |  |  |  |  | Date: May 2021 |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 1 |  | P-1 Line Item Number / Title: B00200 / B-2A |  |  | Modification Number / Title: 110031 / B-2 Trainer System Upgrade |  |
| ID Code (A=Service Ready, B=Not Service Ready) : A |  |  | MDAP/MAIS Code: |  |  |  |
| The FY2022 funding request was reduced by $\$ 2.267$ million to account for the availability of prior year execution balances |  |  |  |  |  |  |
| Development of B-2 Training System upgrades is a continuous process relative to the needs of each funded effort. Some efforts do not require RDT\&E, while others require design and test activities. This program has associated Research Development Test and Evaluation (RDT\&E) funding in PE 0101127F. |  |  |  |  |  |  |
| Secondary Distribution |  | FY 2020 | FY 2021 | $\begin{gathered} \text { FY } 2022 \\ \text { Base } \end{gathered}$ | $\begin{gathered} \text { FY } 2022 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \hline \text { FY } 2022 \\ \text { Total } \end{gathered}$ |
| AF | Quantity | - | - | - | - | - |
|  | Total Obligation Authority | - | 6.465 | 6.573 | 3 | 6.573 |
| Total: <br> Secondary Distribution | Quantity | - | - | - | - | - |
|  | Total Obligation Authority | 0.000 | 6.465 | 6.573 | 30.000 | 6.573 |

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Exhibit P-3a, Individual Modification: PB 2022 Air Force

## Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05/1

## P-1 Line Item Number / Title: <br> B00200 / B-2A

## Date: May 2021

## Modification Number / Title: <br> 110035 / LOW OBSERVABLE SIGNATURE AND SUPPORTABILITY MODS

| ID Code (A=Service Ready, B=Not Service Ready) : A | MDAP/MAIS Code: |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Resource Summary | Prior Years | FY 2020 | FY 2021 | FY 2022 Base | FY 2022 OCO | FY 2022 Total |
| Procurement Quantity (Units in Each) | - | - | - | - | - | - |
| Gross/Weapon System Cost (\$ in Millions) | 72.405 | 0.276 | 19.194 | 16.389 | 0.000 | 16.389 |
| Less PY Advance Procurement (\$ in Millions) | - | - | - | - | - | - |
| Net Procurement (P-1) (\$ in Millions) | 72.405 | 0.276 | 19.194 | 16.389 | 0.000 | 16.389 |
| Plus CY Advance Procurement (\$ in Millions) | - | - | - | - | - | - |
| Total Obligation Authority (\$ in Millions) | 72.405 | 0.276 | 19.194 | 16.389 | 0.000 | 16.389 |
| (The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.) |  |  |  |  |  |  |
| Initial Spares (\$ in Millions) | - | - | - | - | - | - |
| Gross/Weapon System Unit Cost (\$ in Millions) | - | - | - | - | - | - |

## Description:






 Tool, Test Article 0998 optimization, LO-related special test equipment, and B-2 specific improvements/efforts to Air Force Research Laboratory's Mobile Diagnostic Laboratory).
 modifications will be made to related B-2 support equipment. Various lead times are required for the different modifications causing different contract and delivery dates.
 teams performing these component installations. Installs occur at Depot and flight line level and can include either organic or contractor field teams.
 Antennas, Signature Diagnostic System upgrades, and the Advanced Signature Reduction Project 1, the most substantial signature improvement the B-2 has seen in its 30-YR history.
 safety and mission effectiveness.
 Generation Zonal Radar, PDM Installs (AHFM), Tier One Material Inspection System, and the Radar Altimeter Antenna.

Milestone/Development Status

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| Exhibit P-3a, Individual Modification: PB 2022 Air Force |  |  |  |  | Date: May 2021 |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 1 |  | P-1 Line Item Number / Title: B00200 / B-2A |  |  | Modification Number / Title: <br> 110035 / LOW OBSERVABLE <br> SIGNATURE AND SUPPORTABILITY MODS |  |
| ID Code (A=Service Ready, B=Not Service Ready) : A |  |  | MDAP/MAIS Code: |  |  |  |
| The Low Observable Signature and Supportability Modification program captures a family of projects. Development efforts continue to mature LO materials and technologies. This program has associated Research Development Test and Evaluation funding in PE 0101127F. |  |  |  |  |  |  |
| Secondary Distribution |  | FY 2020 | FY 2021 | $\begin{gathered} \text { FY } 2022 \\ \text { Base } \end{gathered}$ | $\begin{aligned} & \text { FY } 2022 \\ & \text { OCO } \end{aligned}$ | $\begin{gathered} \text { FY } 2022 \\ \text { Total } \end{gathered}$ |
| AF | Quantity |  | - | - | - | - 16.389 |
|  | Total Obligation Authority | 0.276 | 19.194 | 16.389 | - |  |
| Total: <br> Secondary Distribution | Quantity | - | - | - | $\cdot$ | $\stackrel{-}{16.389}$ |
|  | Total Obligation Authority | 0.276 | 19.194 | 16.389 | 0.000 |  |

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Exhibit P-40, Budget Line Item Justification: PB 2022 Air Force
Date: May 2021
Appropriation / Budget Activity / Budget Sub Activity:
3010F: Aircraft Procurement, Air Force / BA 05: Modification of Inservice Aircraft /
BSA 1: Strategic Aircraft

## P-1 Line Item Number / Title: <br> B01B00 / B-1B

| ID Code (A=Service Ready, B=Not Service Ready): |  |  | Program Ele | ments for Cod | B Items: 0 | 1126F |  | Other Relat | Program E | ments: 010 | 126F |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Line Item MDAP/MAIS Code: N/A |  |  |  |  |  |  |  |  |  |  |  |  |
| Resource Summary | Prior <br> Years | FY 2020 | FY 2021 | FY 2022 Base | $\begin{gathered} \text { FY } 2022 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \text { FY } 2022 \\ \text { Total } \end{gathered}$ | FY 2023 | FY 2024 | FY 2025 | FY 2026 | To Complete | Total |
| Procurement Quantity (Units in Each) | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Cost (\$ in Millions) | 920.649 | 12.659 | 21.808 | 30.518 | - | 30.518 | - | - | - | - | - | - |
| Less PY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Net Procurement (P-1) (\$ in Millions) | 920.649 | 12.659 | 21.808 | 30.518 | - | 30.518 | - | - | - | - | - | - |
| Plus CY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Total Obligation Authority (\$ in Millions) | 920.649 | 12.659 | 21.808 | 30.518 | - | 30.518 | - | - | - | - | - | - |
| (The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.) |  |  |  |  |  |  |  |  |  |  |  |  |
| Initial Spares (\$ in Millions) | - | - | 0.717 | 0.847 | - | 0.847 | - | - | - | - | - | - |
| Flyaway Unit Cost (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Unit Cost (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |

## Description:


 maintained 62 B-1B aircraft in its inventory. In FY21, the Air Force retires $17 \mathrm{~B}-1 \mathrm{~B}$ aircraft, bringing the total aircraft inventory to 45 . No further divestments planned in FY22.
 (DMS) issues. All modifications in this exhibit are procured with Pacific Defense Initiative funding

The FY2022 funding request was reduced by $\$ 2.915$ million to account for the availability of prior year execution balances
This line item funds modifications to the B-1B aircraft and associated simulators and equipment. Funding for this exhibit contained in PE 0101126F.

Exhibit P-40, Budget Line Item Justification: PB 2022 Air Force
Date: May 2021
Appropriation / Budget Activity / Budget Sub Activity:
3010F: Aircraft Procurement, Air Force / BA 05: Modification of Inservice Aircraft /
BSA 1: Strategic Aircraft

## P-1 Line Item Number / Title:

B01B00 / B-1B
BSA 1: Strategic Aircraft

Program Elements for Code B Items: 0101126F
Line Item MDAP/MAIS Code: N/A

| Exhibits Schedule |  |  |  |  | Prior Years | FY 2020 | FY 2021 | FY 2022 Base | FY 2022 OCO | FY 2022 Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Exhibit Type | Title* | Subexhibits | $\begin{aligned} & \text { ID } \\ & \text { CD } \end{aligned}$ | MDAP/ MAIS Code | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) |
| P-40a*** | 4291 / B-1 TRAINING SUPPORT (Capability Improvement) |  |  |  | 13.879 | 10.458 | - 10.575 | - 10.071 | - 1- | - 10.071 |
| P-40a*** | 92294 / LAPTOP CONTROLLED TARGETING POD (Capability Improvement) |  |  |  | - 187.969 | - /1.594 | - 1 - | - 1 - | - 1 - | - 1 - |
| P-40a*** | 92316 / Radio Crypto Compliance (Capability Improvement) |  |  |  | 1 | 1 | - 10.493 | - 13.112 | 1 | - 13.112 |
| P-40a*** | 92317 / IFF Mode 5/S (Capability Improvement) |  |  |  | - 10.796 | - 15.953 | - 15.994 | - 10.000 | - 1 - | - 10.000 |
| P-40a*** | 99999X / Low Cost Modifications (Capability Improvement) |  |  |  | - 15.637 | 10.249 | - 1 - | - 10.100 | - 1 - | - 10.100 |
| P-3a | 4280 / Fully Integrated Data Links (Capability Improvement) |  | B |  | - 1406.100 | - 14.405 | - 11.190 | - 16.999 | - 10.000 | - 16.999 |
| P-3a | 4284 / CITS UPGRADE (Service Life Extension) |  | B |  | - / 124.162 | - 10.000 | - 11.093 | - 15.046 | - 10.000 | - 15.046 |
| P-3a | 8971 / VERTICAL SITUATION DISPLAYS (Service Life Extension) |  | A |  | - 1292.106 | - 10.000 | - 10.943 | - 18.213 | - 10.000 | - 18.213 |
| P-3a | 92314 / MIDS-JTRS (Capability Improvement) |  | B |  | - 10.000 | - 10.000 | - 111.520 | - 16.977 | - 10.000 | - 16.977 |
| P-40 | Total Gross/Weapon System Cost |  |  |  | - 1920.649 | - /12.659 | - 121.808 | - $/ 30.518$ | - 1 | - 130.518 |

*** Although this is an Exhibit P-40a item, the actual exhibit is not included since all of the required information for this item is already being shown here.
*Title represents 1) the Number / Title for Items; 2) the Number / Title [DODIC] for Ammunition; and/or 3) the Number / Title (Modification Type) for Modifications.
Note: Totals in this Exhibit P-40 set may not be exact or sum exactly due to rounding

## Justification:

This program, P-3A Mod 99999X, Low Cost Modifications, is a new start.
Where applicable, justification for individual modifications is provided in the P-3A exhibits.

| Exhibit P-3a, Individual Modification: PB 2022 Air Force |  |  |  |  | Date: May 2021 |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 1 | P-1 Line Item Number / Title:B01B00 / B-1B |  |  |  | Modification Number / Title: 4280 / Fully Integrated Data Links |  |
| ID Code (A=Service Ready, B=Not Service Ready) : B | MDAP/MAIS Code: |  |  |  |  |  |
| Resource Summary | Prior Years | FY 2020 | FY 2021 | FY 2022 Base | FY 2022 OCO | FY 2022 Total |
| Procurement Quantity (Units in Each) | - | - | - | - | - | - |
| Gross/Weapon System Cost (\$ in Millions) | 406.100 | 4.405 | 1.190 | 6.999 | 0.000 | 6.999 |
| Less PY Advance Procurement (\$ in Millions) | - | - | - | - | - | - |
| Net Procurement (P-1) (\$ in Millions) | 406.100 | 4.405 | 1.190 | 6.999 | 0.000 | 6.999 |
| Plus CY Advance Procurement (\$ in Millions) | - | - | - | - | - | - |
| Total Obligation Authority (\$ in Millions) | 406.100 | 4.405 | 1.190 | 6.999 | 0.000 | 6.999 |
| (The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.) |  |  |  |  |  |  |
| Initial Spares (\$ in Milions) | 26.262 | - | - | - | - | - |
| Gross/Weapon System Unit Cost (\$ in Millions) | - | - | - | - | - | - |

## Description:

Fully Integrated Data Link (FIDL) is a net-centric warfare upgrade enabling full B-1B participation in joint combat and time-critical targeting operations. FIDL adds line-of-sight and beyond line-of-sight command and control (C2) connectivity through the addition of Link 16 and Joint Range Extension (JRE) data link. Modification funds will procure and install Group A and B kits for the FIDL upgrade to the B-1B. This modification provides two tactical data processors and five multi-function displays for the $\mathrm{B}-1 \mathrm{~B}$ aft crew stations. This modification also adds an Ethernet infrastructure enabling rapid airborne re-targeting by highspeed transfer of aircraft information to all four crew stations and on-board weapons. Modification funding is being used to alleviate Diminishing Manufacturing Sources (DMS) and Material Shortages (DMSMS) issues. DMSMS activities can include, but are not limited to, life of type buy or minor redesign. Procurement modification funding will be used to establish depot repair capability and for Interim Contractor Support (ICS).

The Integrated Battle Station (IBS) is the integrated production phase of three development programs: FIDL, Vertical Situation Display Upgrade, and Central Integrated Test System. IBS installations completed in 4QFY20. Continued funding is required through FY23 to support IBS Diminishing Manufacturing Source (DMS) resolution and Interim Contractor Support (ICS) until depot activation is accomplished in FY23. Any reduction of funding will result in a shortage of parts and grounded aircraft.

If the IBS programs (FIDL) do not receive adequate funding then Depot Activation and DMS solutions cannot complete as scheduled and lack of ICS contractual coverage will lead to reduced serviceable line replaceable units to the field, ultimately resulting in impact to B-1 mission capability.

Note: OGC includes DMS and Depot Activation costs.
Milestone/Development Status
DMS Resolution schedule:
Class I ECP for Mass Storage System Replacement
Kit Procurement NLT Dec 21
Kit Installations funded by May 22 (Completion goal is Dec 22)
Depot Activation schedule:
Processors complete by May 22
Multi-functional Displays (MFD) complete by Apr 23
ICS for FIDL repairs required until Jun 23, NLT Dec 23

| Exhibit P-3a, Individual Modification: PB 2022 Air Force |  |  |  |  | Date: May 2021 |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 1 |  | P-1 Line Item Number / Title: B01B00 / B-1B |  |  | Modification Number / Title: 4280 / Fully Integrated Data Links |  |
| ID Code (A=Service Ready, B=Not Service Ready) : B |  |  | MDAP/MAIS Code: |  |  |  |
| Models of Systems Affected: B-1B | Modification Type: Capability Improvement |  |  | Related RDT\&E PEs: 0101126F |  |  |
|  | Prior Years | FY 2020 | FY 2021 | FY 2022 Base | FY 2022 OCO | FY 2022 Total |
| Financial Plan | $\begin{gathered} \text { Qty (Each) I } \\ \text { Total Cost }(\$ M) \\ \hline \end{gathered}$ | $\begin{gathered} \text { Qty (Each) I } \\ \text { Total Cost (\$ M) } \\ \hline \end{gathered}$ | $\begin{gathered} \text { Qty (Each) I } \\ \text { Total Cost }(\$ M) \end{gathered}$ | $\begin{gathered} \text { Qty (Each) I } \\ \text { Total Cost (\$ M) } \\ \hline \end{gathered}$ | $\begin{gathered} \text { Qty (Each) I } \\ \text { Total Cost }(\$ M) \\ \hline \end{gathered}$ | $\begin{gathered} \text { Qty (Each) I } \\ \text { Total Cost }(\$ M) \\ \hline \end{gathered}$ |
| RDT\&E PE\# |  |  |  |  |  |  |
| 0101126F | $2 / 162.988$ | - 1- | - 1- | - 1- | - 1 - | 1. |
| Procurement |  |  |  |  |  |  |
| Modification Item 1 of 1: IBS |  |  |  |  |  |  |
| A Kits |  |  |  |  |  |  |
| Recurring |  |  |  |  |  |  |
| IBS:INSTALL KITS Group A (Active) | $60 / 26.375$ | - 1 - | - 1 - | - $1-$ | - 1 - | - 1- |
| Subtotal: Recurring | - /26.375 | - 1- | - 1- | - 1- | - 1- | - 1 - |
| B Kits |  |  |  |  |  |  |
| Recurring |  |  |  |  |  |  |
| IBS:EQUIPMENT Group B (Active) | $60 / 136.174$ | - 1- | - 1- | - 1- | - 1- | - 1- |
| Subtotal: Recurring | - /136.174 | - 1- | - 1- | - 1- | -1- | - 1- |
| Subtotal: IBS | - /162.549 | - 1- | - 1- | - 1- | -1- | - 1 - |
| Subtotal: Procurement, All Modification Items | - /162.549 | - 1 - | - $1-$ | - 1 - | - 1 - | - $1-$ |
| Support (All Modification Items) |  |  |  |  |  |  |
| GROUP B: TOTAL NONRECURRING | - /40.371 | - 10.140 | - 1. | - 10.000 | $1-$ | 10.000 |
| Change Orders | - 123.739 | - 1 - | - 1 - | - 1 - | -1- | - 1 - |
| Data | - 12.447 | - 1- | - 1- | - 1- | -1- | - 1- |
| SIM/TRAINER | 6/9.233 | - 1- | - 1- | - 1- | -1- | - 1- |
| SUPPORT-EQUIP | - 141.583 | - 1- | - 1- | - 1- | - 1 - | - 1- |
| ICs-Material | - 122.836 | - 11.740 | - 1- | - 13.600 | - 1 - | - 13.600 |
| OTHER GOVT | - 123.399 | - 12.525 | - 11.190 | - 13.099 | - 1- | - 13.099 |
| A\&AS | - 18.783 | - 1- | - 1- | - 10.300 | - 1 - | - 10.300 |
| PMA - Other Gov't Costs | - 12.951 | - 1 - | - 1- | - 1 - | -1- | - 1 - |
| Subtotal: Support | 6/175.342 | - 14.405 | - 11.190 | - /6.999 | - 1 - | - 16.999 |
| Installation |  |  |  |  |  |  |
| Modification Item 1 of 1: IBS | $60 / 68.209$ | - 1- | - 1. | - 1 - | - 1- | - 1- |
| Subtotal: Installation | 60/68.209 | - 1- | - 1- | - 1- | - 1- | -1. |
| Total |  |  |  |  |  |  |
| Total Cost (Procurement + Support + Installation) | 406.100 | 4.405 | 1.190 | 6.999 | 0.000 | 6.999 |

## UNCLASSIFIED



| Exhibit P-3a, Individual Modification: PB 2022 Air Force |  |  |  |  | Date: May 2021 |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity 3010F / 05 / 1 | P-1 Line Item Number / Title: B01B00 / B-1B |  |  |  | Modification Number / Title: 4284 / CITS UPGRADE |  |
| ID Code (A=Service Ready, $\mathrm{B}=$ Not Service Ready) : B | MDAP/MAIS Code: |  |  |  |  |  |
| Resource Summary | Prior Years | FY 2020 | FY 2021 | FY 2022 Base | FY 2022 OCO | FY 2022 Total |
| Procurement Quantity (Units in Each) | - | - | - | - | - | - |
| Gross/Weapon System Cost (\$ in Millions) | 124.162 | 0.000 | 1.093 | 5.046 | 0.000 | 5.046 |
| Less PY Advance Procurement (\$ in Millions) | - | - | - | - | - | - |
| Net Procurement (P-1) (\$ in Millions) | 124.162 | 0.000 | 1.093 | 5.046 | 0.000 | 5.046 |
| Plus CY Advance Procurement (\$ in Millions) | - | - | - | - | - | - |
| Total Obligation Authority (\$ in Millions) | 124.162 | 0.000 | 1.093 | 5.046 | 0.000 | 5.046 |
| (The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.) |  |  |  |  |  |  |
| Initial Spares (\$ in Millions) | 7.202 | - | - | - | - | - |
| Gross/Weapon System Unit Cost (\$ in Millions) | - | - | - | - | - | - |

## Description:

Central Integrated Test System (CITS) is the B-1B on-board diagnostic system that monitors aircraft avionics and mechanical systems on the ground and during flight, reporting faults to aircrew and maintainers. This modification provides a new CITS Dedicated Processor (CDP), upgraded Multi-Functional Display (MFD), and re-hosted CITS software, resulting in enhanced diagnostic capabilities, improved turnaround time, and reduced maintenance costs. Modification funding is being used to alleviate Diminishing Manufacturing Sources and Material Shortages (DMSMS). DMSMS activities can include, but are not limited to, life of type buy or minor redesign. Procurement modification funding will be used to establish depot repair capability and for Interim Contractor Support (ICS).

The Integrated Battle Station (IBS) is the integrated production phase of three development programs: Fully Integrated Data Link, Vertical Situation Display Upgrade, and CITS. IBS installations completed in 4QFY20. Continued funding is required through FY23 to support IBS Diminishing Manufacturing Source (DMS) resolution and Interim Contractor Support (ICS) until depot activation is accomplished in FY23. Any reduction of funding will result in a shortage of parts and grounded aircraft.

If the IBS programs (CITS) do not receive adequate funding then Depot Activation and DMS solutions cannot complete as scheduled and lack of ICS contractual coverage will lead to reduced serviceable line replaceable units to the field, ultimately resulting in impact to B-1 mission capability.

Notes:
OTHER GOVT includes Depot Activation and DMS costs.
PMA includes travel cost.
Milestone/Development Status
Depot Activation schedule:
Processors complete by May 22
Multi-functional Displays (MFD) complete by Apr 23
ICS for CITS repairs required until Jun 23, NLT Dec 23

| Exhibit P-3a, Individual Modification: PB 2022 Air Force |  |  |  |  | Date: May 2021 |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 1 |  | P-1 Line Item Number / Title: B01B00 / B-1B |  |  | Modification Number / Title: 4284 / CITS UPGRADE |  |
| ID Code (A=Service Ready, $\mathrm{B}=$ Not Service Ready) : B |  |  | MDAP/MAIS Code: |  |  |  |
| Models of Systems Affected: B-1B | Modification Type: Service Life Extension   <br> Prior Years FY 2020 FY 2021 |  |  | Related RDT\&E PEs: 0101126F |  |  |
| Financial Plan |  |  |  | FY 2022 Base | FY 2022 OCO | FY 2022 Total |
|  | Qty (Each) I Total Cost (\$ M) | $\begin{gathered} \text { Qty (Each) I } \\ \text { Total Cost (\$ M) } \end{gathered}$ | $\begin{gathered} \text { Qty (Each) I } \\ \text { Total Cost }(\$ M) \\ \hline \end{gathered}$ | $\begin{gathered} \text { Qty (Each) I } \\ \text { Total Cost (\$M) } \\ \hline \end{gathered}$ | $\begin{gathered} \text { Qty (Each)I } \\ \text { Total Cost }(\$ M) \\ \hline \end{gathered}$ | $\begin{gathered} \text { Qty (Each) I } \\ \text { Total Cost (\$M) } \end{gathered}$ |
| RDT\&E PE\# |  |  |  |  |  |  |
| 0101126F | 2/49.635 | - 1- | - 1- | - 1- | -1- | - 1- |
| Procurement |  |  |  |  |  |  |
| Modification Item 1 of 1: IBS (2) |  |  |  |  |  |  |
| A Kits |  |  |  |  |  |  |
| Recurring |  |  |  |  |  |  |
| IBS:INSTALL KITS Group A (Active) | $60 / 5.387$ | - 1- | - 1- | - 1- | $1-$ | 1 - |
| Subtotal: Recurring | - 15.387 | -1. | - 1- | - 1- | - / - | 1 - |
| B Kits |  |  |  |  |  |  |
| Recurring |  |  |  |  |  |  |
| IBS:EQUIPMENT Group B (Active) | $60 / 24.987$ | - 1- | - 1- | - 1- | - 1- | - 1- |
| Subtotal: Recurring | - 124.987 | -1- | - 1- | - 1- | - / - | - 1 - |
| Subtotal: IBS (2) | - /30.374 | -1- | - 1- | - 1- | - 1- | - 1- |
| Subtotal: Procurement, All Modification Items | - 130.374 | -1- | - 1- | - 1- | - 1- | - 1. |
| Support (All Modification Items) |  |  |  |  |  |  |
| GROUP A: TOTAL NONRECURRING | - 10.000 | -1- | - 1- | -1- | -1- | - 1 - |
| GROUP B: TOTAL NONRECURRING | - 118.944 | - 1- | - 1- | - 1- | - 1- | - 1 - |
| Change Orders | - 13.313 | - 1- | -1- | - 1- | -1- | - 1 - |
| Data | - /1.337 | -1- | - 1- | - 1 - | -1- | - 1 - |
| SIM/TRAINER | 4/3.672 | -1- | - 1- | - 1 - | -1- | -1- |
| SUPPORT-EQUIP | - /10.577 | -1- | - 1- | - 1 - | -1- | -1- |
| ICS-Material | - 19.387 | -1- | -1- | - 12.195 | -1- | - 12.195 |
| OTHER GOVT | - 111.406 | - 1- | - 10.005 | - 12.451 | -1- | - 12.451 |
| PMA - Contractor Services | - 12.389 | -1- | - 11.088 | - 1 - | -1- | - 1- |
| PMA - Other Gov't Costs | - 10.285 | - 1- | - 1 - | - 10.400 | - 1- | - 10.400 |
| Subtotal: Support | 4/61.310 | - 1 - | - /1.093 | - 15.046 | -1. | - 15.046 |
| Installation |  |  |  |  |  |  |
| Modification Item 1 of 1: IBS (2) | $60 / 32.478$ | - 1 - | - 1 - | - 1 - | - 1- | - $1-$ |
| Subtotal: Installation | 60/32.478 | - 1- | - 1- | - 1- | - 1- | -1- |
| Total |  |  |  |  |  |  |
| Total Cost (Procurement + Support + Installation) | 124.162 | 0.000 | 1.093 | 5.046 | 0.000 | 5.046 |

## UNCLASSIFIED



| Exhibit P-3a, Individual Modification: PB 2022 Air Force |  |  |  |  | Date: May 2021 |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 1 | P-1 Line Item Number / Title: B01B00 / B-1B |  |  |  | Modification Number / Title: 8971 / VERTICAL SITUATION DISPLAYS |  |
| ID Code (A=Service Ready, B=Not Service Ready) : A | MDAP/MAIS Code: |  |  |  |  |  |
| Resource Summary | Prior Years | FY 2020 | FY 2021 | FY 2022 Base | FY 2022 OCO | FY 2022 Total |
| Procurement Quantity (Units in Each) | - | - | - | - | - | - |
| Gross/Weapon System Cost (\$ in Millions) | 292.106 | 0.000 | 0.943 | 8.213 | 0.000 | 8.213 |
| Less PY Advance Procurement (\$ in Millions) | - | - | - | - | - | - |
| Net Procurement (P-1) (\$ in Millions) | 292.106 | 0.000 | 0.943 | 8.213 | 0.000 | 8.213 |
| Plus CY Advance Procurement (\$ in Millions) | - | - | - | - | - | - |
| Total Obligation Authority (\$ in Millions) | 292.106 | 0.000 | 0.943 | 8.213 | 0.000 | 8.213 |
| (The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.) |  |  |  |  |  |  |
| Initial Spares (\$ in Millions) | 17.867 | - | - | - | - | - |
| Gross/Weapon System Unit Cost (\$ in Millions) | - | - | - | - | - | - |

## Description:




 include, but are not limited to, production test equipment and tooling.

 in FY23. Any reduction of funding will result in a shortage of parts and grounded aircraft.
 replaceable units to the field, ultimately resulting in impact to $\mathrm{B}-1$ mission capability.

Note: OGC includes DMS and Depot Activation costs.
Milestone/Development Status
DMS Resolution schedule:
 MFDs uses VDATS).

Depot Activation schedule:
Processors complete by May 22
Multi-functional Displays (MFD) complete by Apr 23
ICS for VSDU repairs required until Jun 23, NLT Dec 23

| Exhibit P-3a, Individual Modification: PB 2022 Air Force |  |  |  |  | Date: May 2021 <br> Modification Number / Title: 8971 / VERTICAL SITUATION DISPLAYS |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 1 |  | P-1 Line Item Number / Title: B01B00 / B-1B |  |  |  |  |
| ID Code (A=Service Ready, B=Not Service Ready) : A |  |  | MDAP/MAIS Code: |  |  |  |
| Models of Systems Affected: B-1B | Modification Type: Service Life Extension |  |  | Related RDT\&E PEs: 0101126F |  |  |
|  | Prior Years | FY 2020 | FY 2021 | FY 2022 Base | FY 2022 OCO | FY 2022 Total |
|  | $\begin{gathered} \text { Qty (Each) I } \\ \text { Total Cost (\$M) } \end{gathered}$ | Qty (Each) I Total Cost (\$ M) | $\begin{gathered} \text { Qty (Each) I } \\ \text { Total Cost (\$M) } \end{gathered}$ | Qty (Each) Total Cost (\$ M) | Qty (Each) I Total Cost (\$ M) | Qty (Each) I Total Cost (\$ M) |
| RDT\&E PE\# |  |  |  |  |  |  |
| 0101126F | 2/166.669 | - 1- | - 1- | - 1 - | 1 - | - 1- |
| Procurement |  |  |  |  |  |  |
| Modification Item 1 of 1: IBS (3) |  |  |  |  |  |  |
| A Kits |  |  |  |  |  |  |
| Recurring |  |  |  |  |  |  |
| IBS:INSTALL KITS Group A (Active) | 60/14.878 | -1- | - 1- | - 1 - | - 1 - | -1- |
| Subtotal: Recurring | - /14.878 | - / - | - 1 - | - 1 - | - 1- | - 1 - |
| B Kits |  |  |  |  |  |  |
| Recurring |  |  |  |  |  |  |
| IBS:EQUIPMENT Group B (Active) | $60 / 69.183$ | - 1- | - 1- | - 1 - | 1 - | 1 - |
| Subtotal: Recurring | - /69.183 | - 1 - | - 1 - | - 1 - | - 1 - | - 1 - |
| Subtotal: IBS (3) | - 184.061 | - 1 | - 1- | -1. | - 1- | -1. |
| Subtotal: Procurement, All Modification Items | - 184.061 | - 1 - | 1 | 1 | 1 - | - 1 - |
| Support (All Modification Items) |  |  |  |  |  |  |
| GROUP B: TOTAL NONRECURRING | - 114.903 | - 1- | - 1 - | - 1 - | - 1 - | - 1. |
| Change Orders | - /10.718 | -1- | - 1 - | - 1 - | - 1 - | - 1 - |
| Data | - 11.540 | -1- | - 1- | - 1- | - 1- | -1- |
| SIM/TRAINER | 2/4.962 | - 1- | - 1- | - 1 - | 1 | - 1 - |
| SUPPORT-EQUIP | - 118.646 | -1- | - 1 - | - 1- | - 1- | - 1- |
| ICS-Material | - 124.788 | - 1- | 1 - | - 13.000 | 1 - | - 13.000 |
| OTHER GOVT | - 142.940 | -1- | - 10.943 | - 15.213 | - 1 - | - 15.213 |
| PMA - Contractor Services | - 18.562 | - 1 - | - 1 - | - 1 - | - 1 - | - 1 - |
| PMA - Other Gov't Costs | - 10.411 | -1- | - 1- | - 10.000 | - 1 - | - 10.000 |
| Subtotal: Support | 2/127.470 | 1 | - 10.943 | - 18.213 | 1 | - 18.213 |
| Installation |  |  |  |  |  |  |
| Modification Item 1 of 1: IBS (3) | $60 / 80.575$ | - 1 - | - $1-$ | - 1 - | - 1 - | - $1-$ |
| Subtotal: Installation | $60 / 80.575$ | - 1. | - 1- | - 1- | - 1- | -1. |
| Total |  |  |  |  |  |  |
| Total Cost (Procurement + Support + Installation) | 292.106 | 0.000 | 0.943 | 8.213 | 0.000 | 8.213 |

## UNCLASSIFIED



| Exhibit P-3a, Individual Modification: PB 2022 Air Force |  |  |  |  | Date: May 2021 |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity 3010F / 05 / 1 | P-1 Line Item Number / Title: B01B00 / B-1B |  |  |  | Modification Number / Title: 92314 / MIDS-JTRS |  |
| ID Code (A=Service Ready, $\mathrm{B}=$ Not Service Ready) : B | MDAP/MAIS Code: |  |  |  |  |  |
| Resource Summary | Prior Years | FY 2020 | FY 2021 | FY 2022 Base | FY 2022 OCO | FY 2022 Total |
| Procurement Quantity (Units in Each) | - | - | - | - | - | - |
| Gross/Weapon System Cost (\$ in Millions) | 0.000 | 0.000 | 11.520 | 6.977 | 0.000 | 6.977 |
| Less PY Advance Procurement (\$ in Millions) | - | - | - | - | - | - |
| Net Procurement (P-1) (\$ in Millions) | 0.000 | 0.000 | 11.520 | 6.977 | 0.000 | 6.977 |
| Plus CY Advance Procurement (\$ in Millions) | - | - | - | - | - | - |
| Total Obligation Authority (\$ in Millions) | 0.000 | 0.000 | 11.520 | 6.977 | 0.000 | 6.977 |
| (The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.) |  |  |  |  |  |  |
| Initial Spares (\$ in Millions) | - | - | - | - | - | - |
| Gross/Weapon System Unit Cost (\$ in Millions) | - | - | - | - | - | - |

## Description:

The B-1B Multifunctional Information Distribution System (MIDS) - Joint Tactical Radio System (JTRS) replaces the existing MIDS Low Volume Terminal (MIDS-LVT) 1 Link 16 terminal to meet National Security Agency (NSA) Crypto Modernization Device Cease Key and Federal Aviation Administration (FAA)/National Telecommunication and Information Agency (NTIA) Frequency Remap mandates; systems become non-compliant in 2022. MIDS-JTRS resolves all LVT 1 deficiencies and adds substantial combat capability enhancements: Link 16 Enhanced Throughput (LET), Concurrent Multi-Netting (CMN-4) with Concurrent Retention Receive (CRR). MIDS-JTRS also provides multi-data link capability, improving situational awareness and allows rapid inflight re-targeting in cooperative combat environment.

Funds are included to accommodate the DoD crypto and FAA/NTIA frequency remapping mandates for MIDS-JTRS, P-3A 92314, as outlined throughout previous Air Force and DoD budget exhibits.
This modification is for the B-1B fleet of 45 aircraft ( 2 developmental test +2 operational test +6 prototypes +35 production aircraft kits) that are being modified with Pacific Defense Initiative funding and will be installed with a contract field team. There are two increments for this program to prioritize mandate compliance. Increment 1 efforts addresses both the NSA and FAA/NTIA mandates by replacing the MIDS-LVT with the MIDS-JTRS terminals. Increment 2 includes Group A kits only to lay-in Ethernet and software solution to incorporate additional J-message capability.

Funding may be used, but not limited to, addressing Diminishing Manufacturing Sources (DMS) issues and the installation of Ethernet wiring to support higher bandwidth messaging.
MIDS-JTRS is a fielded system and Space \& Naval Warfare Systems Command (SPAWAR) manages MIDS-JTRS production contract for the DoD. Terminals are in full production and take 12 months to produce. After the terminals are produced, the deliveries are staggered up to an additional 12 months.

Development funding for this exhibit contained in PE 0101126F.
Milestone/Development Status
MIDS-JTRS is currently in EMD. Expected to reach Milestone C 2QFY22.

## UNCLASSIFIED

| Exhibit P-3a, Individual Modification: PB 2022 Air Force |  |  |  |  | Date: May 2021 <br> Modification Number / Title: 92314 / MIDS-JTRS |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 1 |  | P-1 Line Item Number / Title: B01B00 / B-1B |  |  |  |  |
| ID Code (A=Service Ready, B=Not Service Ready) : B |  |  | MDAP/MAIS Code: |  |  |  |
| Models of Systems Affected: B-1 | Modification Type: Capability Improvement |  |  | Related RDT\&E PEs: 0101126F |  |  |
| Financial Plan |  |  |  | FY 2022 Base | FY 2022 OCO | FY 2022 Total |
|  | $\begin{gathered} \text { Qty (Each) I } \\ \text { Total Cost (\$ M) } \end{gathered}$ | $\begin{gathered} \text { Qty (Each) I } \\ \text { Total Cost (\$M) } \end{gathered}$ | $\begin{gathered} \text { Qty (Each) I } \\ \text { Total Cost (\$ M) } \end{gathered}$ | $\begin{gathered} \text { Qty (Each) I } \\ \text { Total Cost (\$M) } \end{gathered}$ | $\begin{gathered} \text { Qty (Each) I } \\ \text { Total Cost (\$ M) } \end{gathered}$ | $\begin{gathered} \text { Qty (Each) I } \\ \text { Total Cost (\$M) } \end{gathered}$ |
| RDT\&E PE\# |  |  |  |  |  |  |
| 0101126F | $0 / 14.952$ | - 10.760 | - 13.341 | - 114.830 | 1. | - 114.830 |
| Procurement |  |  |  |  |  |  |
| Modification Item 1 of 1: MIDS-JTRS Terminals |  |  |  |  |  |  |
| B Kits |  |  |  |  |  |  |
| Recurring |  |  |  |  |  |  |
| MIDS-JTRS Terminals:EQUIPMENT Group B (Active) | - 1- | -1- | 3518.400 | - 10.591 | - 1- | - 10.591 |
| Subtotal: Recurring | -1- | - 1- | - 18.400 | - 10.591 | - 1- | - 10.591 |
| Subtotal: MIDS-JTRS Terminals | - 1- | - 1- | - 18.400 | - 10.591 | - 1- | - 10.591 |
| Subtotal: Procurement, All Modification Items | - 1- | -1- | - 18.400 | - 10.591 | - 1. | - 10.591 |
| Support (All Modification Items) |  |  |  |  |  |  |
| OTHER GOVT | - 1 - | - 1 - | - 1- | - 10.400 | - 1 - | - 10.400 |
| Change Orders | -1- | -1- | - 1- | - 12.109 | -1- | - 12.109 |
| Mod of Spares | -1- | - 1 - | - 13.120 | - 1 - | - 1 - | - 1 - |
| Subtotal: Support | - 1 - | 1 | - 13.120 | - /2.509 | 1. | - $/ 2.509$ |
| Installation |  |  |  |  |  |  |
| Modification Item 1 of 1: MIDS-JTRS Terminals | - 1- | - 1- | - 1- | 12/3.877 | - 1 - | $12 / 3.877$ |
| Subtotal: Installation | -1- | -1- | - 1- | 12/3.877 | - 1- | 12/3.877 |
| Total |  |  |  |  |  |  |
| Total Cost (Procurement + Support + Installation) | 0.000 | 0.000 | 11.520 | 6.977 | 0.000 | 6.977 |

## UNCLASSIFIED



Exhibit P-40, Budget Line Item Justification: PB 2022 Air Force
Date: May 2021
Appropriation / Budget Activity / Budget Sub Activity:
3010F: Aircraft Procurement, Air Force / BA 05: Modification of Inservice Aircraft /
BSA 1: Strategic Aircraft

## P-1 Line Item Number / Title: <br> B05200 / B-52

BSA 1: Strategic Aircraft
ID Code (A=Service Ready, B=Not Service Ready):
Program Elements for Code B Items: 0101113F
Other Related Program Elements: 0101113F
Line Item MDAP/MAIS Code: N/A

| Resource Summary | Prior <br> Years | FY 2020 | FY 2021 | $\begin{gathered} \text { FY } 2022 \\ \text { Base } \end{gathered}$ | $\begin{gathered} \text { FY } 2022 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \text { FY } 2022 \\ \text { Total } \end{gathered}$ | FY 2023 | FY 2024 | FY 2025 | FY 2026 | To Complete | Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Procurement Quantity (Units in Each) | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Cost (\$ in Millions) | 757.236 | 41.433 | 27.279 | 74.957 | - | 74.957 | - | - | - | - | - | - |
| Less PY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Net Procurement (P-1) (\$ in Millions) | 757.236 | 41.433 | 27.279 | 74.957 | - | 74.957 | - | - | - | - | - | - |
| Plus CY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Total Obligation Authority (\$ in Millions) | 757.236 | 41.433 | 27.279 | 74.957 | - | 74.957 | - | - | - | - | - | - |
| (The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.) |  |  |  |  |  |  |  |  |  |  |  |  |
| Initial Spares (\$ in Millions) | - | 2.499 | 2.692 | 7.863 | - | 7.863 | - | - | - | - | - | - |
| Flyaway Unit Cost (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Unit Cost (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |

## Description:

This line item funds modifications to the B-52H aircraft. The B-52H strategic bomber maintains nuclear and conventional taskings. The Air Force maintains 76 B-52Hs in its inventory. All modifications in this exhibit are procured with Pacific Defense Initiative funding. The B-52H averages 19,965 airframe hours as of May 2021 (Source: Logistics Inventory Management System-Earned Value (LIMS-EV)).

The specific modifications budgeted and programmed for B-52H fleet consist of: 3310/B-52 Combat Network Communications Technology, 6885/AETC Trainers, 6889/Bomber Tactical Data Link (TDL), 6892/ B-52 Low Cost Improvements (LCI), 6893/GPS-IU Replacement, 6896/B-52 VLF/LF Modernization, 6895/Advanced Targeting Pod (ATP) Multi-Function Color Display (MFCD), 6890/Radar Modernization Program (RMP), 6893/Global Positioning System (GPS)-Interface Unit (IU) Replacement, 6894/Crypto Modernization, and 1/Other Mods.

In accordance with Section 1815 of the FY 2008 National Defense Authorization Act (P.L. 110-181), this item is necessary for use by the active and reserve components of the Armed Forces for homeland defense missions, domestic emergency responses, and providing military support to civil authorities.

Funding for the exhibit contained in PE 0101113F. Funding under this PE may be used to alleviate Diminishing Manufacturing Sources (DMS) issues.
Funding changes for FY22 (total decrease of 66.502 M ):


| Secondary Distribution |  | FY 2020 | FY 2021 | $\begin{aligned} & \text { FY } 2022 \\ & \text { Base } \end{aligned}$ | $\begin{aligned} & \text { FY } 2022 \\ & \text { OCO } \end{aligned}$ | $\begin{gathered} \text { FY } 2022 \\ \text { Total } \end{gathered}$ | FY 2023 | FY 2024 | FY 2025 | FY 2026 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| AF | Quantity | - | - | - | - | - | - | - | - | - |
|  | Total Obligation Authority | 39.503 | 27.279 | 69.933 | - | 69.933 | - | - | - | - |
| AFR | Quantity | - | - | - | - | - | - | - | - | - |
|  | Total Obligation Authority | 1.930 | - | 5.024 | - | 5.024 | - | - | - | - |
| Total: | Quantity | - | - | - | - | - | - | - | - | - |

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| Exhibit P-40, Budget Line Item Justification: PB 2022 Air Force |  |  |  |  |  |  |  | Date: May 2021 |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: <br> 3010F: Aircraft Procurement, Air Force / BA 05: Modification of Inservice Aircraft / <br> BSA 1: Strategic Aircraft |  |  |  |  | P-1 Line Item Number / Title: B05200 / B-52 |  |  |  |  |  |
|  | Not Service Ready): | Program Elements for Code B Items: 0101113F |  |  |  | Other Related Program Elements: 0101113F |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |
| Secondary Distribution |  | FY 2020 | FY 2021 | $\begin{gathered} \text { FY } 2022 \\ \text { Base } \end{gathered}$ | $\begin{aligned} & \text { FY } 2022 \\ & \text { OCO } \end{aligned}$ | $\begin{aligned} & \text { FY } 2022 \\ & \text { Total } \end{aligned}$ | FY 2023 | FY 2024 | FY 2025 | FY 2026 |
| Secondary Distribution | Total Obligation Authority | 41.433 | 27.279 | 74.957 | - | 74.957 |  | - | - | - |

Exhibit P-40, Budget Line Item Justification: PB 2022 Air Force
Date: May 2021

## Appropriation / Budget Activity / Budget Sub Activity:

3010F: Aircraft Procurement, Air Force / BA 05: Modification of Inservice Aircraft / BSA 1: Strategic Aircraft
ID Code (A=Service Ready, B=Not Service Ready):
Program Elements for Code B Items: 0101113F
Line Item MDAP/MAIS Code: N/A

| Exhibits Schedule |  |  |  |  | Prior Years | FY 2020 | FY 2021 | FY 2022 Base | FY 2022 OCO | FY 2022 Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Exhibit Type | Title* | Subexhibits | $\begin{aligned} & \text { ID } \\ & \text { CD } \end{aligned}$ | MDAP/ MAIS Code | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) |
| P-40a*** | 3265 / B-52 Anti-Skid Replacement (Reliability \& Maintainability) |  |  |  | 121.374 | - 10.932 | - 10.948 | - 1 - | - 1 - | - 1- |
| P-40a*** | 6884 / B-52 Internal Weapons Bay Upgrade (Capability Improvement) |  |  |  | - 177.119 | - 10.000 | - 1 - | - 1 - | - 1 - | 1 |
| P-40a*** | 6885 / AETC Trainers (B-52) (Other) |  |  |  | / 11.940 | 12.524 | - 10.226 | - 10.389 | - 1 - | - 10.389 |
| P-40a*** | 6890 / B-52 Radar Modernization (Capability Improvement) |  |  |  | - 1 | 1 | - 1 - | - 10.000 | 1 | - 10.000 |
| P-40a*** | 6891 / B-52 WST AR Upgrade Trainer (Other) |  |  |  | - 1 - | - 10.855 | - / - | - 1 - | - 1 - | - 1 - |
| P-40a*** | 6893 / GPS-IU Replacement (Capability Improvement) |  |  |  | - 1 - | - 16.730 | - / 12.014 | - 1 - | - 1 - | 1 - |
| P-40a*** | 6894 / B-52 Crypto Modernization (Capability Improvement) |  |  |  | 1 | 1 | - 1 - | - 13.452 | - 1 - | - 13.452 |
| P-40a*** | 6898 / B-52 IR Missile Warning System (Safety) |  |  |  | - / 16.400 | 1 | 1 | - 1 - | 1 | - 1 - |
| P-40a*** | 99999x / Other Mods (Other) |  |  |  | / 17.796 | - 13.969 | - 10.470 | - 10.476 | - 1 - | - 10.476 |
| P-3a | 3310 / B-52 Combat Network Communications Technology (Capability Improvement) |  | A |  | - 1605.536 | - / 14.489 | - 10.000 | - / 15.737 | - 10.000 | - / 15.737 |
| P-3a | 6889 / Bomber Tactical Data link (Capability Improvement) |  | B |  | - 10.000 | - /11.934 | - /11.164 | - / 25.841 | - 10.000 | - 125.841 |
| P-3a | 6892 / B-52 Low Cost Improvements (Capability Improvement) |  | B |  | - 17.071 | - 10.000 | - 12.457 | - 18.925 | - 10.000 | - 18.925 |
| P-3a | 6896 / B-52 VLF/LF Modernization (Capability Improvement) |  | B |  | - 10.000 | - 10.000 | - 10.000 | - 120.137 | - 10.000 | - 120.137 |
| P-40 | Total Gross/Weapon System Cost |  |  |  | - 1757.236 | - /41.433 | - 127.279 | - 174.957 | 1. | 174.957 |

*** Although this is an Exhibit P-40a item, the actual exhibit is not included since all of the required information for this item is already being shown here.
*Title represents 1) the Number / Title for Items; 2) the Number / Title [DODIC] for Ammunition; and/or 3) the Number / Title (Modification Type) for Modifications
Note: Totals in this Exhibit P-40 set may not be exact or sum exactly due to rounding

## Justification:

This program, P-3A Mod 3310, B-52 Combat Network Communications Technology, is a new start.
This program, P-3A Mod 6894, B-52 Crypto Modernization, is a new start.
This program, P-3A Mod 6896, B-52 VLF/LF Modernization, is a new start
The following programs are receiving procurement funding in FY22, more information for each program can be found in the respective P-3As:
3310/B-52 Combat Network Communications Technology (FY22 supports Depot Stand-Up, ICS and Ground Station)
6885/AETC Trainers
6889/Bomber Tactical Data Link
6892/B-52 Low Cost Improvements (FY22 supports Mission Data Recorder procurement buy)
6884/B-52 Crypto Modernization
6896/B-52 VLF/LF Modernization
1/Other Mods

Exhibit P-3a, Individual Modification: PB 2022 Air Force

## Appropriation / Budget Activity / Budget Sub Activity:

## 3010F/05/1

## P-1 Line Item Number / Title: B05200 / B-52

## Date: May 2021

## Modification Number / Title:

3310 / B-52 Combat Network Communications Technology

| ID Code (A=Service Ready, B=Not Service Ready) : A | MDAP/MAIS Code: |
| :---: | :---: |


| Resource Summary | Prior Years | FY 2020 | FY 2021 | FY 2022 Base | FY 2022 OCO | FY 2022 Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Procurement Quantity (Units in Each) | - | - | - | - | - | - |
| Gross/Weapon System Cost (\$ in Millions) | 605.536 | 14.489 | 0.000 | 15.737 | 0.000 | 15.737 |
| Less PY Advance Procurement (\$ in Millions) | - | - | - | - | - | - |
| Net Procurement (P-1) (\$ in Millions) | 605.536 | 14.489 | 0.000 | 15.737 | 0.000 | 15.737 |
| Plus CY Advance Procurement (\$ in Millions) | - | - | - | - | - | - |
| Total Obligation Authority (\$ in Millions) | 605.536 | 14.489 | 0.000 | 15.737 | 0.000 | 15.737 |
| (The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.) |  |  |  |  |  |  |
| Initial Spares (\$ in Millions) | 33.358 | - | - | - | - | - |
| Gross/Weapon System Unit Cost (\$ in Millions) | - | - | - | - | - | - |

## Description:

This program, P-3A Mod 3310, B-52 Combat Network Communications Technology, is a new start.








 Funds may be used to address emerging and short-notice Diminishing Manufacturing and Material Shortage (DMSMS) issues.
 requirements and standards defined under the Simulator Common Architecture Requirements and Standards (SCARS) initiative.

This program has associated Research Development Test and Evaluation (RDT\&E) funding in PE 0101113F. Two EMD kits were purchased with RDT\&E funding.
 other mandates necessary to ensure continued aircrew safety and mission effectiveness.

CONECT installation will complete in FY21 for the entire B-52 fleet of 76 aircraft. FY22 15.737M funds support completion of depot activation and crew ground stations.
Depot Source Of Repair (DSOR) Number: 19-066.
Milestone/Development Status

UNCLASSIFIED

| Exhibit P-3a, Individual Modification: PB 2022 Air Force |  |  |  |  | Date: May 2021 |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 1 |  | P-1 Line Item Number / Title: <br> B05200 / B-52 |  |  | Modification Number / Title: 3310 / B-52 Combat Network Communications Technology |  |
| ID Code (A=Service Ready, B=Not Service Ready) : A |  |  | MDAP/MAIS Code: |  |  |  |
| Development began in FY05. CONECT Initial Operational Test \& Evaluation (IOT\&E) flight test completed November 2011. The Low Rate Initial Production (LRIP) Lot 1 contract was awarded in May 2013. The LRIP Lot 2 contract was awarded August 2014. Full Rate Production Lot 1 ( 10 units) was awarded February 2015. Full Rate Production Lot 1b (additional 7 units) was awarded 8 August 2015 , Lot 2 (additional 16 units) was awarded 29 January 2016, Lot 3 (additional 13 units) 16 December 2016. Full Rate Production Lot 4,10 units was awarded 16 Nov 17 . All kits receives of Jan 2020 . All aircraft installation to be completed by 3QFY21, with FOC in the 4QFY21. Program funding in FY22 and FY23 support Depot Stand-Up (by 4QFY23), interim contractor support (ICS) until depot stand-up, and Crew Ground Station. |  |  |  |  |  |  |
| Secondary Distribution |  | FY 2020 | FY 2021 | $\begin{gathered} \text { FY } 2022 \\ \text { Base } \end{gathered}$ | $\begin{gathered} \text { FY } 2022 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \hline \text { FY } 2022 \\ \text { Total } \end{gathered}$ |
| AF | Quantity | - | - | - | - |  |
|  | Total Obligation Authority | 14.489 | 0.000 | 15.737 | 7 | 15.737 |
| AFR | Quantity | - | - | - | - | - |
|  | Total Obligation Authority | 0.000 | 0.000 | - | - | - |
| Total:Secondary Distribution | Quantity | - | - | $\cdot$ | - - | $\cdot$ |
|  | Total Obligation Authority | 14.489 | 0.000 | 15.737 | 厚 0.000 | 15.737 |


| Exhibit P-3a, Individual Modification: PB 2022 Air Force |  |  |  |  | Date: May 2021 <br> Modification Number / Title: 3310 / B-52 Combat Network Communications Technology |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 1 |  | P-1 Line Item Number / Title: B05200 / B-52 |  |  |  |  |
| ID Code (A=Service Ready, B=Not Service Ready) : A |  |  | MDAP/MAIS Code: |  |  |  |
| Models of Systems Affected: B-52H | Modification Type: Capability Improvement |  |  | Related RDT\&E PEs: 0101113F |  |  |
|  | Prior Years | FY 2020 | FY 2021 | FY 2022 Base | FY 2022 OCO | FY 2022 Total |
|  | Qty (Each) I <br> Total Cost (\$ M) | $\begin{gathered} \text { Oty (Each) I } \\ \text { Total Cost (\$M) } \\ \hline \end{gathered}$ | $\begin{gathered} \text { Qty (Each) I } \\ \text { Total Cost }(\$ M) \\ \hline \end{gathered}$ | $\begin{gathered} \text { Oty (Each) I } \\ \text { Total Cost (\$ M) } \\ \hline \end{gathered}$ | $\begin{gathered} \text { Qty (Each) I } \\ \text { Total Cost }(\$ M) \\ \hline \end{gathered}$ | Qty (Each) I Total Cost (\$ M) |
| RDT\&E PE\# |  |  |  |  |  |  |
| 0101113F | 2/21.044 | - 10.000 | - 1- | - 10.000 | - 1 - | - 10.000 |
| Procurement |  |  |  |  |  |  |
| Modification Item 1 of 1: CONECT Kit |  |  |  |  |  |  |
| A Kits |  |  |  |  |  |  |
| Recurring |  |  |  |  |  |  |
| CONECT KitiINSTALL KITS Group A (Active) | $36 / 48.496$ | 1/1.943 | - 1- | - 1. | 1. | 1 |
| CONECT Kit:INSTALL KITS Group A (Reserve) | $37 / 20.882$ | - 1- | - 1- | - 1- | $1-$ | -1- |
| Subtotal: Recurring | - 169.378 | - 11.943 | -1- | - 1 - | - 1 - | - 1 - |
| B Kits |  |  |  |  |  |  |
| Recurring |  |  |  |  |  |  |
| CONECT Kit:EQUIPMENT Group B (Active) | 49/136.128 | - 1- | - 1- | - 1- | $1-$ | 1 - |
| CONECT Kit:EQUIPMENT Group B (Reserve) | 25/39.482 | - 1 - | -1- | - 1 - | - 1 - | - 1 |
| Subtotal: Recurring | - /175.610 | - 1- | - 1- | - 1- | - 1- | -1. |
| Subtotal: CONECT Kit | - /244.988 | - 11.943 | - 1 - | - 1 - | - 1 - | - 1 - |
| Subtotal: Procurement, All Modification Items | - /244.988 | - 11.943 | 1 | - 1 | - 1 | -1. |
| Support (All Modification Items) |  |  |  |  |  |  |
| GROUP A: TOTAL NONRECURRING | - 15.623 | - $1-$ | - 1- | - 1 - | - 1 - | -1- |
| GROUP B: TOTAL NONRECURRING | - 166.949 | - 10.040 | - 1- | - 1- | $1-$ | 1 - |
| Change Orders | - /19.753 | - 1 - | -1- | - 10.100 | -1- | - 10.100 |
| Data | - 10.465 | - 1- | - 1- | - 18.033 | - 1- | - 18.033 |
| SIM/TRAINER | 0/10.328 | - 18.645 | - 1- | - 1 - | - 1 - | - 1 - |
| SUPPORT-EQUIP | - 152.179 | - 11.850 | - 1 - | - 16.100 | - 1 - | - 16.100 |
| OTHER GOVT | - 168.217 | - 1 - | - 1- | - 11.504 | $1-$ | - 11.504 |
| GFP | - 113.640 | - 1- | - 1- | - 1- | - 1- | - 1 |
| PMA - Other Gov't Costs | - 141.765 | - 12.011 | 1 - | 1 - | 1 - | 1 - |
| Subtotal: Support | 0/278.919 | - /12.546 | - 1 - | - /15.737 | - 1 - | - 115.737 |
| Installation |  |  |  |  |  |  |
| Modification Item 1 of 1: CONECT Kit | $62 / 81.629$ | 710.000 | 5/0.000 | - 1 - | - 1 - | - 1 - |
| Subtotal: Installation | 62/81.629 | 71. | $5 /$ - | - 1 - | - 1 - | -1. |
| Total |  |  |  |  |  |  |

UNCLASSIFIED

| Exhibit P-3a, Individual Modification: PB 2022 Air Force |  |  |  |  | Date: May 2021 |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3010F/05/1 |  | P-1 Line Item Number / Title: B05200 / B-52 |  |  | Modification Number / Title: 3310 / B-52 Combat Network Communications Technology |  |
| ID Code (A=Service Ready, B=Not Service Ready) : A |  |  | MDAP/MAIS Code: |  |  |  |
| Models of Systems Affected: B-52H | Modification Type: Capability Improvement |  |  | Related RDT\&E PEs: 0101113F |  |  |
|  |  |  |  | FY 2022 Base | FY 2022 OCO | FY 2022 Total |
| Financial Plan | $\begin{gathered} \text { Qty (Each) I } \\ \text { Total Cost (\$M) } \\ \hline \end{gathered}$ | Qty (Each) I Total Cost (\$ M) | Qty (Each) I Total Cost (\$ M) | Qty (Each) I Total Cost (\$ M) | $\begin{gathered} \text { Qty (Each) I } \\ \text { Total Cost (\$ M) } \\ \hline \end{gathered}$ | Qty (Each) I Total Cost (\$ M) |
| Total Cost (Procurement + Support + Installation) |  | 14.489 | 0.000 | 15.737 | 0.000 | 15.737 |

## UNCLASSIFIED



Exhibit P-3a, Individual Modification: PB 2022 Air Force

## Appropriation / Budget Activity / Budget Sub Activity:

 3010F/05/1
## P-1 Line Item Number / Title: B05200 / B-52

Date: May 2021

## Modification Number / Title:

6889 / Bomber Tactical Data link

ID Code (A=Service Ready, B=Not Service Ready) : B


## Description:

The Tactical Data Link (TDL) will provide low latency, jam-resistant situational awareness and command/control needed to support in-theater operations/missions via a Line-of-Sight (LOS) Link 16 capability. The program consist of integrating an existing off-the-shelf Link 16 terminal into the B-52H. Integration includes Group A wiring, rack and antennas, and the Group B terminal, blanking unit and notch filter Line Replaceable Units (LRU). The Multi-Functional Information Distribution System Joint Tactical Radio System (MIDS-JTRS) terminals will be installed inside Section 41 of the aircraft and two external antennas will be mounted on the top and bottom of the fuselage. The TDL terminal and LOS capability will be integrated with the rest of the Combat Network Communications Technology (CONECT) subsystem. Updates to Common Link Integration Processing (CLIP) will be required to support both LOS and Beyond Line-of-Sight (BLOS) message processing.

This modification is required for the B-52 fleet of 76 aircraft which will be modified using Pacific Defense Initiative funding. Currently, the program is funded to modify 42 B- 52 aircraft in production and 2 in Engineering and Manufacturing Development (EMD). Future funding for remaining fleet will be addressed in future budget cycle.

This modification includes procurement of 42 contractor provided aircraft kits +2 EMD kits that will be installed via programmed depot maintenance (PDM) and contract field teams (CFT). The program will also be procuring 1 full contractor provided aircraft kit to be used as a spare during installation. The two kits will be procured under the EMD contract to support on-aircraft developmental testing.

This modification includes procurement of Group B kits, consisting of 42 production MIDS-JTRS terminals and 7 EMD MIDS-JTRS terminals ( 2 environmental, 2 aircraft, 2 System Integration Lab (SIL), and 1 spare SIL). The MIDS-JTRS terminals are Government Furnished Equipment (GFE) and will be provided to contractor for installation.

In addition, funds may be used to resolve emerging safety of flight and diminishing manufacturing sources (DMS) issues, accommodate technology insertion and fulfill FAA or other mandates necessary to ensure continued aircrew safety and mission effectiveness.

DMS efforts include removal of end-of-life software/hardware within simulators systems and move to a modular, common open system architecture that is sustainable and cyber-resilient, as well as implement requirements and standards defined under the Simulator Common Architecture Requirements and Standards (SCARS) initiative.

Milestone/Development Status
EMD Contract awarded 9 Sep 2017
Milestone C Jan 2022

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| Exhibit P-3a, Individual Modification: PB 2022 Air Force |  |  |  |  | Date: May 2021 |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 1 |  | P-1 Line Item Number / Title: B05200 / B-52 |  |  | Modification Number / Title: 6889 / Bomber Tactical Data link |  |
| ID Code (A=Service Ready, B=Not Service Ready) : B |  |  | MDAP/MAIS Code: |  |  |  |
| Models of Systems Affected: B-52H | Modification Type: Capability Improvement |  |  | Related RDT\&E PEs: 0101113F |  |  |
|  |  |  |  | FY 2022 Base | FY 2022 OCO | FY 2022 Total |
| Financial Plan | $\begin{gathered} \text { Qty (Each) I } \\ \text { Total Cost (\$ M) } \\ \hline \end{gathered}$ | $\begin{gathered} \text { Qty (Each) I } \\ \text { Total Cost (\$M) } \\ \hline \end{gathered}$ | $\begin{gathered} \text { Qty (Each) I } \\ \text { Total Cost }(\$ M) \\ \hline \end{gathered}$ | $\begin{gathered} \text { Qty (Each)I } \\ \text { Total Cost (\$M) } \\ \hline \end{gathered}$ | $\begin{gathered} \text { Qty (Each) I } \\ \text { Total Cost (\$M) } \\ \hline \end{gathered}$ | $\begin{gathered} \text { Qty (Each) I } \\ \text { Total Cost }(\$ M) \\ \hline \end{gathered}$ |
| RDT\&E PE\# |  |  |  |  |  |  |
| 0101113F | 2/19.841 | - 12.878 | - 1- | - 1- | -1- | -1. |
| Procurement |  |  |  |  |  |  |
| Modification Item 1 of 1: Link-16 |  |  |  |  |  |  |
| A Kits |  |  |  |  |  |  |
| Recurring |  |  |  |  |  |  |
| Link-16:INSTALL KITS Group A (Active) | - 1- | 7/2.135 | - 1- | 1715.338 | - 1- | $17 / 5.338$ |
| Link-16:INSTALL KITS Group A (Reserve) | - 1 - | 3/0.915 | - 1- | 8/2.512 | - 1- | $8 / 2.512$ |
| Subtotal: Recurring | -1. | - 13.050 | - 1 - | - 17.850 | - / - | - 17.850 |
| B Kits |  |  |  |  |  |  |
| Recurring |  |  |  |  |  |  |
| Link-16:EQUIPMENT Group B (Active) | -1- | 7/2.135 | - 1- | $17 / 5.338$ | - 1- | $17 / 5.338$ |
| Link-16:EQUIPMENT Group B (Reserve) | -1- | 3/0.915 | - 1 - | 8/2.512 | -1- | 8/2.512 |
| Subtotal: Recurring | - 1- | - 13.050 | - 1- | - 17.850 | - 1- | - 17.850 |
| Subtotal: Link-16 | - 1- | - 16.100 | - 1- | - /15.700 | - 1- | - /15.700 |
| Subtotal: Procurement, All Modification Items | -1. | - /6.100 | . 1. | - /15.700 | - 1 - | - /15.700 |
| Support (All Modification Items) |  |  |  |  |  |  |
| GROUP B: TOTAL NONRECURRING | - 1- | - 1 - | - 15.630 | - 10.843 | - 1 - | - 10.843 |
| ICS-Labor | -1- | - 10.027 | - 10.028 | - 10.551 | -1- | - 10.551 |
| GFP | -1- | 15/2.998 | - 1 - | 17/3.910 | -1- | 17/3.910 |
| SUPPORT-EQUIP | - 1- | - 10.462 | - 10.566 | - 1- | -1- | - 1- |
| OTHER GOVT | -1- | - 11.697 | - 12.755 | - 13.440 | -1- | - 13.440 |
| PMA - Contractor Services | - 1 - | - 10.650 | - 12.135 | - 11.347 | -1- | - 11.347 |
| PMA - Other Gov't Costs | - 1 | - 1 - | - 10.050 | - 10.050 | -1- | - 10.050 |
| Subtotal: Support | -1. | 15/5.834 | - /11.164 | 17/10.141 | - 1- | 17/10.141 |
| Installation |  |  |  |  |  |  |
| Subtotal: Installation | - / - | - $1 \cdot$ | - 1 - | - / - | - / - | - 1- |
| Total |  |  |  |  |  |  |
| Total Cost (Procurement + Support + Installation) | 0.000 | 11.934 | 11.164 | 25.841 | 0.000 | 25.841 |

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| Exhibit P-3a, Individual Modification: PB 2022 Air Force |  |  |  |  | Date: May 2021 |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 1 | P-1 Line Item Number / Title: B05200 / B-52 |  |  |  | Modification Number / Title: 6892 I B-52 Low Cost Improvements |  |
| ID Code (A=Service Ready, $\mathrm{B}=$ Not Service Ready) : B | MDAP/MAIS Code: |  |  |  |  |  |
| Resource Summary | Prior Years | FY 2020 | FY 2021 | FY 2022 Base | FY 2022 OCO | FY 2022 Total |
| Procurement Quantity (Units in Each) | - | - | - | - | - | - |
| Gross/Weapon System Cost (\$ in Millions) | 7.071 | 0.000 | 2.457 | 8.925 | 0.000 | 8.925 |
| Less PY Advance Procurement (\$ in Millions) | - | - | - | - | - | - |
| Net Procurement (P-1) (\$ in Millions) | 7.071 | 0.000 | 2.457 | 8.925 | 0.000 | 8.925 |
| Plus CY Advance Procurement (\$ in Millions) | - | - | - | - | - | - |
| Total Obligation Authority (\$ in Millions) | 7.071 | 0.000 | 2.457 | 8.925 | 0.000 | 8.925 |
| (The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.) |  |  |  |  |  |  |
| Initial Spares (\$ in Millions) | - | - | - | - | - | - |
| Gross/Weapon System Unit Cost (\$ in Millions) | - | - | - | - | - | - |

## Description:

Low Cost Improvements are efforts which rapidly resolve areas and issues that significantly impact readiness for the entire B-52H weapon system inventory/fleet of 76 aircraft, including support equipment and simulators/trainers. These funds are required for mission essential B-52H improvements to ensure readiness and meet B-52H operational requirements. Current modifications include Integrated Common Pylon Home Light Relocation, Micro-Crypto Interface Device Replacement, Stability Augmentation System Switch Wire Extension, and Bomb bay camera replacement manufacturing and 28 Volt Direct Current (28VDC) Bomb Bay Circuit Breaker Replacement. Additionally, funds will be used for B-52 prototyping efforts.

B-52 Mission Data Recorder
Provides permanent crash survivable flight data recorder information to meet MFOQA and other regulatory requirements. Produces digital recordings enhancing aircrew mission reconstruction and weapon release validation.

Funds may be used to address emerging and short-notice Diminishing Manufacturing and Material Shortage (DMSMS) issues.
Funds may be used to resolve emerging safety of flight and diminishing manufacturing sources issues, accommodate technology insertion and fulfill FAA or other mandates necessary to ensure continued aircrew safety and mission effectiveness.

Milestone/Development Status
B-52 Mission Data Recorder Milestone C 4QFY21

| Secondary Distribution |  | FY 2020 | FY 2021 | $\begin{gathered} \text { FY } 2022 \\ \text { Base } \end{gathered}$ | $\begin{aligned} & \text { FY } 2022 \\ & \text { OCO } \end{aligned}$ | $\begin{gathered} \text { FY } 2022 \\ \text { Total } \end{gathered}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| AF | Quantity | - | - | - | - | - |
|  | Total Obligation Authority | 0.000 | 2.457 | 8.925 | - | 8.925 |
| Total: <br> Secondary Distribution | Quantity | - | - | - | - | - |
|  | Total Obligation Authority | 0.000 | 2.457 | 8.925 | 0.000 | 8.925 |

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| Exhibit P-3a, Individual Modification: PB 2022 Air Force |  |  |  |  | Date: May 2021 |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 1 |  | P-1 Line Item Number / Title: B05200 / B-52 |  |  | Modification Number / Title: 6892 I B-52 Low Cost Improvements |  |
| ID Code (A=Service Ready, B=Not Service Ready) : B |  |  | MDAP/MAIS Code: |  |  |  |
| Models of Systems Affected: B-52 | Modification Type: Capability Improvement |  |  | Related RDT\&E PEs: 0101113F |  |  |
|  | Prior Years | FY 2020 | FY 2021 | FY 2022 Base | FY 2022 OCO | FY 2022 Total |
| Financial Plan | $\begin{gathered} \text { Qty (Each) I } \\ \text { Total Cost (\$ M) } \end{gathered}$ | $\begin{gathered} \text { Qty (Each) I } \\ \text { Total Cost (\$M) } \end{gathered}$ | $\begin{gathered} \text { Qty (Each) I } \\ \text { Total Cost (\$ M) } \end{gathered}$ | $\begin{gathered} \text { Qty (Each) I } \\ \text { Total Cost (\$M) } \end{gathered}$ | $\begin{gathered} \text { Qty (Each) I } \\ \text { Total Cost (\$ M) } \end{gathered}$ | $\begin{gathered} \text { Qty (Each) I } \\ \text { Total Cost (\$M) } \end{gathered}$ |
| Procurement |  |  |  |  |  |  |
| Modification Item 1 of 1: MDR |  |  |  |  |  |  |
| B Kits |  |  |  |  |  |  |
| Recurring |  |  |  |  |  |  |
| MDR:EQUIPMENT Group B (Active) | - 1- | - 1- | 5/1.700 | $18 / 8.085$ | - 1- | $18 / 8.085$ |
| Subtotal: Recurring | - 1 | - 1- | - 11.700 | - 18.085 | - 1- | - 18.085 |
| Subtotal: MDR | - 1 - | - 1 | - 11.700 | - 18.085 | 1 | - 18.085 |
| Subtotal: Procurement, All Modification Items | -1. | - 1 - | - 11.700 | - 18.085 | - 1- | - 18.085 |
| Support (All Modification Items) |  |  |  |  |  |  |
| GROUP B: TOTAL NONRECURRING | - 10.000 | - 10.000 | - $1-$ | - 10.000 | - 1. | - 10.000 |
| A\&AS | - 1- | - 1- | - 10.757 | - 1- | - 1- | - 1- |
| OTHER GOVT | - 17.071 | - 1 - | - 1 - | - 1- | - 1- | - 1 - |
| PMA - Other Gov't Costs | - 1- | 1. | 1. | - 10.840 | - 1- | - 10.840 |
| Subtotal: Support | - 17.071 | - 10.000 | - 10.757 | - 10.840 | $1-$ | - 10.840 |
| Installation |  |  |  |  |  |  |
| Subtotal: Installation | - / - | - / - | - / - | - / - | - / - | - $1-$ |
| Total |  |  |  |  |  |  |
| Total Cost (Procurement + Support + Installation) | 7.071 | 0.000 | 2.457 | 8.925 | 0.000 | 8.925 |

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| Exhibit P-3a, Individual Modification: PB 2022 Air Force |  |  | Date: May 2021 |
| :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 1 | P-1 Line Item Number / Title: B05200 / B-52 |  | Modification Number / Title: 6892 I B-52 Low Cost Improvements |
| ID Code (A=Service Ready, $\mathrm{B}=$ Not Service Ready) : B |  | MDAP/MAIS Code: |  |
| Modification Item 1 of 1: MDR |  |  |  |
| Manufacturer Information |  |  |  |
| Manufacturer Name: 96 RANSS - Calculex and Other KTRs on existing vehicle |  | Manufacturer Location: TBD |  |
| Administrative Leadtime (in Months): 2 |  | Production Leadtime (in Months): 5 |  |
| Dates | FY 2020 | FY 2021 | FY 2022 |
| Contract Dates |  | Aug 2021 | Feb 2022 |
| Delivery Dates |  | Feb 2022 | Jul 2022 |
|  |  |  |  |
| Installation Information |  |  |  |
| Method of Implementation (Organic): Org/Intermediate |  |  | Installation Quantity: 23 |  |

Exhibit P-3a, Individual Modification: PB 2022 Air Force

## Appropriation / Budget Activity / Budget Sub Activity:

 3010F / 05 / 1
## P-1 Line Item Number / Title: B05200 / B-52

Date: May 2021

## Modification Number / Title:

6896 / B-52 VLF/LF Modernization

ID Code (A=Service Ready, B=Not Service Ready) : B

| MDAP/MAIS Code: |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Resource Summary | Prior Years | FY 2020 | FY 2021 | FY 2022 Base | FY 2022 OCO | FY 2022 Total |
| Procurement Quantity (Units in Each) | - | - | - | - | - | - |
| Gross/Weapon System Cost (\$ in Millions) | 0.000 | 0.000 | 0.000 | 20.137 | 0.000 | 20.137 |
| Less PY Advance Procurement (\$ in Millions) | - | - | - | - | - | - |
| Net Procurement (P-1) (\$ in Millions) | 0.000 | 0.000 | 0.000 | 20.137 | 0.000 | 20.137 |
| Plus CY Advance Procurement (\$ in Millions) | - | - | - | - | - | - |
| Total Obligation Authority (\$ in Millions) | 0.000 | 0.000 | 0.000 | 20.137 | 0.000 | 20.137 |
| (The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.) |  |  |  |  |  |  |
| Initial Spares (\$ in Millions) | - | - | - | - | - | - |
| Gross/Weapon System Unit Cost (\$ in Millions) | - | - | - | - | - | - |

## Description:

This program, P-3A Mod 6896, B-52 VLF/LF Modernization, is a new start.

 receiver is experiencing supportability concerns and drives a need for more sustainable VLF capability.

 integration and installation onto the B-52 platform while leveraging existing technology and mature systems to reduce cost and development schedule.
 Future funding for the remaining fleet will be addressed in future budget cycles.

This modernization effort includes procurement of 49 aircraft kits +2 EMD kits that will be installed via programmed depot maintenance (PDM) and contract field teams (CFT).
 continued aircrew safety and mission effectiveness. Funds may be used to purchase long lead components.

Milestone/Development Status
Acquisition Strategy Approved Jan 2019.
Preliminary Design Review completed 2QFY21 with Critical Design Review scheduled for 3QFY21.
Developmental and operational test to begin in FY23 followed by Milestone C in 3QFY23.

| Secondary Distribution |  | FY 2020 | FY 2021 | FY 2022 Base | $\begin{gathered} \text { FY } 2022 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \text { FY } 2022 \\ \text { Total } \end{gathered}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| AF | Quantity | - | - | - | - | - |
|  | Total Obligation Authority | - | - | 20.137 | - | 20.137 |
| Total: | Quantity | - | $\bullet$ | - | - |  |

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| Exhibit P-3a, Individual Modification: PB 2022 Air Force |  |  |  | Date: May 2021 <br> Modification Number / Title: 6896 / B-52 VLF/LF Modernization |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 1 | P-1 Line Item Number / Title: B05200 / B-52 |  |  |  |  |
| ID Code (A=Service Ready, B=Not Service Ready) : B |  | MDAP/MAIS Code: |  |  |  |
| Secondary Distribution | FY 2020 | FY 2021 | $\begin{gathered} \text { FY } 2022 \\ \text { Base } \end{gathered}$ | $\begin{gathered} \text { FY } 2022 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \hline \text { FY } 2022 \\ \text { Total } \end{gathered}$ |
| Secondary Distribution Total Obligation Authority | 0.000 | 0.000 | 20.137 | 0.000 |  |

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| Exhibit P-3a, Individual Modification: PB 2022 Air Force |  |  |  |  | Date: May 2021 |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 1 |  | P-1 Line Item Number / Title: B05200 / B-52 |  |  | Modification Number / Title: 6896 / B-52 VLF/LF Modernization |  |
| ID Code (A=Service Ready, B=Not Service Ready) : B |  |  | MDAP/MAIS Code: |  |  |  |
| Models of Systems Affected: B-52H | Modification Type: Capability Improvement   <br> Prior Years FY 2020 FY 2021 |  |  | Related RDT\&E PEs: 0101113F |  |  |
| Financial Plan |  |  |  | FY 2022 Base | FY 2022 OCO | FY 2022 Total |
|  | Prior Years Qty (Each) ${ }^{1}$ Total Cost ( $M$ ) | $\begin{gathered} \text { FY } 2020 \\ \hline \begin{array}{c} \text { Qty (Each) } 1 \\ \text { Total Cost }(\$ M) \end{array} \\ \hline \end{gathered}$ | $\begin{gathered} \text { Qty (Each) I } \\ \text { Total Cost (\$ M) } \end{gathered}$ | $\begin{gathered} \text { Qty (Each) I } \\ \text { Total Cost (\$M) } \end{gathered}$ | $\begin{gathered} \text { Qty (Each) I } \\ \text { Total Cost (\$M) } \end{gathered}$ | $\begin{gathered} \text { Qty (Each) I } \\ \text { Total Cost (\$M) } \end{gathered}$ |
| RDT\&E PE\# |  |  |  |  |  |  |
| 0101113F | - 124.551 | - 110.000 | 2/12.976 | - 18.876 | - 1- | - 18.876 |
| Procurement |  |  |  |  |  |  |
| Modification Item 1 of 1: VLF/LF |  |  |  |  |  |  |
| A Kits |  |  |  |  |  |  |
| Recurring |  |  |  |  |  |  |
| VLF/LF:INSTALL KITS Group A (Active) | 1 - | - 1- | 1 - | $24 / 3.921$ | 1 - | 24/3.921 |
| Subtotal: Recurring | - 1- | - 1- | - 1- | - 13.921 | - 1- | - 13.921 |
| B Kits |  |  |  |  |  |  |
| Recurring |  |  |  |  |  |  |
| VLF/LF:EQUIPMENT Group B (Active) | - 1- | - 1- | - 1- | 24/13.628 | - 1- | 24/13.628 |
| Subtotal: Recurring | - 1- | - 1- | - 1- | - /13.628 | - 1- | - /13.628 |
| Subtotal: VLF/LF | - 1- | - 1- | - 1- | - /17.549 | - 1- | - /17.549 |
| Subtotal: Procurement, All Modification Items | - 1 - | -1 | 1 | - /17.549 | - 1- | - /17.549 |
| Support (All Modification Items) |  |  |  |  |  |  |
| PMA - Other Gov't Costs | - 1 - | - 1- | - 1 - | - 10.351 | - 1 - | - 10.351 |
| OTHER GOVT | - 1- | - 1- | - 1- | - 12.237 | - 1 - | - 12.237 |
| Subtotal: Support | - 1- | - 1- | - 1- | - 12.588 | - 1- | - 12.588 |
| Installation |  |  |  |  |  |  |
| Subtotal: Installation | - 1 - | - 1 - | - / - | - / - | - / - | - 1. |
| Total |  |  |  |  |  |  |
| Total Cost (Procurement + Support + Installation) | 0.000 | 0.000 | 0.000 | 20.137 | 0.000 | 20.137 |

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Exhibit P-40, Budget Line Item Justification: PB 2022 Air Force

| Appropriation / Budget Activity / Budget Sub Activity: |
| :--- |
| 3010F: Aircraft Procurement, Air Force / BA 05: Modification of Inservice Aircraft / |
| BSA 1: Strategic Aircraft |

## P-1 Line Item Number / Title: <br> H060WH / HH-60W Modifications

| ID Code (A=Service Ready, B=Not Service Ready): |  |  | Program Ele | ents for Cod | B Items: | 229F |  | Other Rela | Program E | ments: 0605 | 29F |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Line Item MDAP/MAIS Code: 479 |  |  |  |  |  |  |  |  |  |  |  |  |
| Resource Summary | Prior <br> Years | FY 2020 | FY 2021 | $\text { FY } 2022$ Base | $\begin{gathered} \text { FY } 2022 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \text { FY } 2022 \\ \text { Total } \end{gathered}$ | FY 2023 | FY 2024 | FY 2025 | FY 2026 | To Complete | Total |
| Procurement Quantity (Units in Each) | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Cost (\$ in Millions) | - | 0.000 | 0.000 | 61.191 | - | 61.191 | - | - | - | - | - | - |
| Less PY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Net Procurement (P-1) (\$ in Millions) | - | 0.000 | 0.000 | 61.191 | - | 61.191 | - | - | - | - | - | - |
| Plus CY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Total Obligation Authority (\$ in Millions) | - | 0.000 | 0.000 | 61.191 | - | 61.191 | - | - | - | - | - | - |
| (The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.) |  |  |  |  |  |  |  |  |  |  |  |  |
| Initial Spares (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Flyaway Unit Cost (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Unit Cost (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |

## Description:

The Combat Rescue Helicopter (HH-60W) program will replace the aging HH-60G. The HH-60W will be capable of employment day or night, in adverse weather, and across the full spectrum of threats to include chemical, biological, radiological, and nuclear. On-board defensive capabilities will permit the HH-60W system to operate with less risk than legacy systems in an increased threat environment. An in-flight air refueling capability will provide an airborne alert capability and extend its combat mission range. The HH-60W system is capable of conducting combat search and rescue airborne mission commander duties The aircraft will be self-supporting to the maximum extent practical. The HH-60W system may also conduct other collateral missions inherent in its capabilities to conduct Personnel Recovery, such as nonconventional assisted recovery, non-conventional evacuation operations, defense support to civil authorities, civil search and rescue, international aid, emergency aeromedical evacuation, disaster/humanitarian relief, counter-drug activities, support for National Aeronautics and Space Administration flight operations, and insertion/extraction of combat forces.

Funding for this exhibit contained in PE 0207229F
The primary modification in FY22 is in relation to Distributed Aperture Infrared Counter Measure. Other retrofit efforts may include Global Positioning System Anti-Jam/Anti-Spoof, Degraded Visual Environment system, Integrated Vehicle Health Monitoring System Control, Video Data Link, Blue Force Tracker 2, Mobile User Objective System, Electronic Flight Bags, and Automated Dependent Surveillance Broadcast In Device. Capability Upgrades and modernization also supports inclusion for mandates, hardware changes for diminishing manufacturing sources, and component obsolescence issues.

In accordance with Section 1815 of the FY 2008 National Defense Authorization Act (P.L. 110-181), this item is necessary for use by the active and reserve components of the Armed Forces for homeland defense missions, domestic emergency responses, and providing military support to civil authorities.

| Exhibit P-40, Budget Line Item Justification: PB 2022 Air Force |  |  |  |  |  |  |  | Date: May 2021 |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: <br> 3010F: Aircraft Procurement, Air Force / BA 05: Modification of Inservice Aircraft / <br> BSA 1: Strategic Aircraft |  |  |  |  |  | P-1 Line Item Number / Title: H060WH / HH-60W Modifications |  |  |  |  |
| ID Cod | ( $\mathrm{A}=$ Service Ready, $\mathrm{B}=$ Not Service Ready): B | Program Elements for Code B Items: 0207229F |  |  |  |  | Other Related Program Elements: 0605229F |  |  |  |
| Line Item MDAP/MAIS Code: 479 |  |  |  |  |  |  |  |  |  |  |
| Exhibits Schedule |  |  |  |  | Prior Years | FY 2020 | FY 2021 | FY 2022 Base | FY 2022 OCO | FY 2022 Total |
| $\begin{aligned} & \text { Exhibit } \\ & \text { Type } \\ & \hline \end{aligned}$ | Title* | Subexhibits | $\begin{array}{\|l\|l\|} \hline \text { ID } \\ \text { CD } \end{array}$ | $\begin{aligned} & \hline \text { MDAP/ } \\ & \text { MAIS } \\ & \text { Code } \end{aligned}$ | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost (Each) / (\$ M) |
| P-3a | 1 / Distributed Aperture Infrared Countermeasures (Capability Improvement) |  | B |  | 1. | - 10.000 | - 10.000 | - 161.191 | - 10.000 | - 161.191 |
| P-40 | Total Gross/Weapon System Cost |  |  |  | - 1. | - 10.000 | - 10.000 | - 161.191 | - 1. | - 161.191 |

*Title represents 1) the Number / Title for Items; 2) the Number / Title [DODIC] for Ammunition; and/or 3) the Number / Title (Modification Type) for Modifications.
Note: Totals in this Exhibit P-40 set may not be exact or sum exactly due to rounding.

## Justification:

This program, P-3A Mod H060W1, Distributed Aperture Infrared Countermeasures, is a new start.

| Exhibit P-3a, Individual Modification: PB 2022 Air Force ${ }^{\text {a }}$ D |  |  |  |  | Date: May 2021 |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 1 | P-1 Line Item Number / Title: H060WH / HH-60W Modifications |  |  |  | Modification Number / Title: 1 / Distributed Aperture Infrared Countermeasures |  |
| ID Code (A=Service Ready, $\mathrm{B}=$ Not Service Ready) : B | MDAP/MAIS Code: |  |  |  |  |  |
| Resource Summary | Prior Years | FY 2020 | FY 2021 | FY 2022 Base | FY 2022 OCO | FY 2022 Total |
| Procurement Quantity (Units in Each) | - | - | - | - | - | - |
| Gross/Weapon System Cost (\$ in Millions) | - | 0.000 | 0.000 | 61.191 | 0.000 | 61.191 |
| Less PY Advance Procurement (\$ in Millions) | - | - | - | - | - | - |
| Net Procurement (P-1) (\$ in Millions) | - | 0.000 | 0.000 | 61.191 | 0.000 | 61.191 |
| Plus CY Advance Procurement (\$ in Millions) | - | - | - | - | - | - |
| Total Obligation Authority (\$ in Millions) | - | 0.000 | 0.000 | 61.191 | 0.000 | 61.191 |
| (The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.) |  |  |  |  |  |  |
| Initial Spares (\$ in Millions) | - | - | - | - | - | - |
| Gross/Weapon System Unit Cost (\$ in Millions) | - | - | - | - | - | - |

## Description:

This program, P-3A Mod H060W1, Distributed Aperture Infrared Countermeasures, is a new start.

 production. This modification will be installed on the entire fleet of 105 aircraft, currently in production ( 104 kits funded with APAF).

This modification supports performance of a full financial audit as required by title 10 U.S.C. Chapter 9A, Sec 240-D.
Milestone/Development Status

 fourth quarter of CY2022. The HH-60W DAIRCM Hardware Procurement is scheduled in FY2022.

DAIRCM is projected to begin lab testing August of 2023, to begin ground testing in January of 2024, and to start flight testing between first and second quarter of CY2024.

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| Exhibit P-3a, Individual Modification: PB 2022 Air Force |  |  |  |  | Date: May 2021 <br> Modification Number / Title: <br> 1 / Distributed Aperture Infrared Countermeasures |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 1 |  | P-1 Line Item Number / Title: H060WH / HH-60W Modifications |  |  |  |  |
| ID Code (A=Service Ready, B=Not Service Ready) : B |  |  | MDAP/MAIS Code: |  |  |  |
| Models of Systems Affected: HH-60W | Modification Type: Capability Improvement |  |  | Related RDT\&E PEs: 0605229F |  |  |
|  | Prior Years | FY 2020 | FY 2021 | FY 2022 Base | FY 2022 OCO | FY 2022 Total |
|  | $\begin{gathered} \text { Qty (Each) I } \\ \text { Total Cost (\$M) } \end{gathered}$ | Qty (Each) I Total Cost (\$ M) | Qty (Each) I Total Cost (\$ M) | Qty (Each) I Total Cost (\$ M) | Qty (Each) I Total Cost (\$ M) | Qty (Each) I Total Cost (\$ M) |
| Procurement |  |  |  |  |  |  |
| Modification Item 1 of 1: DAIRCM |  |  |  |  |  |  |
| A Kits |  |  |  |  |  |  |
| Recurring |  |  |  |  |  |  |
| DAIRCM:INSTALL KITS Group A (Active) | - 1 | $1-$ | - 1- | 6/10.997 | - 1- | 6/10.997 |
| Subtotal: Recurring | - 1- | -1- | - 1- | - 110.997 | - 1- | - /10.997 |
| B Kits |  |  |  |  |  |  |
| Recurring |  |  |  |  |  |  |
| DAIRCM:EQUIPMENT Group B (Active) | - 1 - | - 1- | - 1 - | 6/50.194 | - 1- | 6/50.194 |
| Subtotal: Recurring | - 1 | 1 | 1 | - /50.194 | -1- | - $/ 50.194$ |
| Subtotal: DAIRCM | - 1 | - / - | - 1- | - /61.191 | - 1- | - /61.191 |
| Subtotal: Procurement, All Modification Items | - 1 | - 1 - | - 1 - | - /61.191 | - 1 - | - /61.191 |
| Installation |  |  |  |  |  |  |
| Subtotal: Installation | - 1. | - / - | - / - | - / - | - / - | - 1. |
| Total |  |  |  |  |  |  |
| Total Cost (Procurement + Support + Installation) | - | 0.000 | 0.000 | 61.191 | 0.000 | 61.191 |

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Exhibit P-40, Budget Line Item Justification: PB 2022 Air Force
Date: May 2021

## P-1 Line Item Number / Title:

LAIRCM / Large Aircraft Infrared Countermeasures 3010F: Aircraft Procurem
BSA 1: Strategic Aircraft


## Line Item MDAP/MAIS Code: N/A

| Resource Summary | Prior <br> Years | FY 2020 | FY 2021 | $\begin{gathered} \text { FY } 2022 \\ \text { Base } \end{gathered}$ | $\begin{gathered} \text { FY } 2022 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \text { FY } 2022 \\ \text { Total } \end{gathered}$ | FY 2023 | FY 2024 | FY 2025 | FY 2026 | To Complete | Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Procurement Quantity (Units in Each) | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Cost (\$ in Millions) | 440.885 | 97.093 | 56.320 | 57.001 | - | 57.001 | - | - | - | - | - | - |
| Less PY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Net Procurement (P-1) (\$ in Millions) | 440.885 | 97.093 | 56.320 | 57.001 | - | 57.001 | - | - | - | - | - | - |
| Plus CY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Total Obligation Authority (\$ in Millions) | 440.885 | 97.093 | 56.320 | 57.001 | - | 57.001 | - | - | - | - | - | - |
| (The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.) |  |  |  |  |  |  |  |  |  |  |  |  |
| Initial Spares (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Flyaway Unit Cost (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Unit Cost (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |

## Description:



 repeaters, as needed by the platform.

 type of missile warning sensors and laser transmitter assemblies.

Funding supports efforts that include, but are not limited to, Hardware Procurement (Group A and Group B), Installation, Installation Support, Initial Spares, Support Equipment, Government Furnished Equipment (GFE) and GFE Repairs, Line Replaceable Unit (LRU) Repairs, Interim Contractor Support (ICS), Depot Standup, Systems Engineering and Program Management (SEPM), Failure Reporting and Corrective Analysis Support (FRACAS), Other Government Costs (OGCs), Pre-Planned Product Improvements, Program Management and Administration (PMA) costs, simulators, and data.

Like most programs, LAIRCM faces the challenges associated with resolving Diminishing Manufacturing Sources (DMS) issues and software errors / inefficiencies. The LAIRCM program office seeks to ensure continued production of LAIRCM components for all LAIRCM customers. Funding may be used to address (DMS) issues and software corrections or minor improvements. The LAIRCM DMS program includes all activities associated with monitoring and identifying DMS issues. It also includes all activities required to resolve DMS issues such as: 1) the use of existing material solutions which involves actions to secure availability of existing supply (i.e., life of type buy and extension of production or support); 2 ) implementing substitutes which includes engineering activities to qualify and implement the identified substitute (i.e., approved part; repair, refurbishment, or reclamation; simple substitute; and complex substitute); and 3) redesign which includes all aspects of engineering and qualification to implement new or highly modified equipment (i.e., development of a new item or source; redesign of a next higher assembly; and redesign of a complex/system replacement).

LAIRCM kit quantities purchased are dependent on the unit cost and/or the installation cost of the kits.
In accordance with Section 1815 of the FY 2008 National Defense Authorization Act (P.L. 110-181), this item is necessary for use by the active and reserve components of the Armed Forces for homeland defense missions, domestic emergency responses, and providing military support to civil authorities.

UNCLASSIFIED
Page 1 of 10
P-1 Line \#27
Volume 2-53

| Exhibit P-40, Budget Line Item Justification: PB 2022 Air Force |  |  |  |  |  |  |  | Date: May 2021 |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: <br> 3010F: Aircraft Procurement, Air Force / BA 05: Modification of Inservice Aircraft / <br> BSA 1: Strategic Aircraft |  |  |  |  | P-1 Line Item Number / Title: <br> LAIRCM / Large Aircraft Infrared Countermeasures |  |  |  |  |  |
| ID Code (A=Service Ready, B=Not Service Ready): |  | Program Elements for Code B Items: 0401134F |  |  |  | Other Related Program Elements: 0401134F |  |  |  |  |
| Line Item MDAP/MAIS Code: N/A |  |  |  |  |  |  |  |  |  |  |
| FY 2019 funding totals include $\$ 143.225 \mathrm{M}$ for Overseas Contingency Operations. FY 2020 funding totals include $\$ 53.335 \mathrm{M}$ for Overseas Contingency Operations. <br> Funding for this exhibit contained in PE 0401134F. |  |  |  |  |  |  |  |  |  |  |
| Secondary Distribution |  | FY 2020 | FY 2021 | $\begin{gathered} \text { FY } 2022 \\ \text { Base } \end{gathered}$ | $\begin{aligned} & \text { FY } 2022 \\ & \text { OCO } \end{aligned}$ | $\begin{gathered} \text { FY } 2022 \\ \text { Total } \end{gathered}$ | FY 2023 | FY 2024 | FY 2025 | FY 2026 |
| AF | Quantity | - | - | - | - | - | - | - | - | - |
|  | Total Obligation Authority | 89.312 | 54.457 | 57.001 | - | 57.001 | - | - | - | - |
| AFNG | Quantity | - | - | - | - | - | - | - | - | - |
|  | Total Obligation Authority | 4.588 | 0.000 | 0.000 | - | 0.000 | - | - | - | - |
| AFR | Quantity | - | - | - | - | - | - | - | - | - |
|  | Total Obligation Authority | 3.193 | 1.863 | 0.000 | - | 0.000 | - | - | - | - |
| Total: <br> Secondary Distribution | Quantity | - | - | - | - | - | - | - | - | - |
|  | Total Obligation Authority | 97.093 | 56.320 | 57.001 | - | 57.001 | - | - | - | - |


| Exhibit P-40, Budget Line Item Justification: PB 2022 Air Force |  |  |  |  |  |  |  | Date: May 2021 |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: <br> 3010F: Aircraft Procurement, Air Force / BA 05: Modification of Inservice Aircraft / BSA 1: Strategic Aircraft |  |  |  |  |  | P-1 Line Item Number / Title: <br> LAIRCM / Large Aircraft Infrared Countermeasures |  |  |  |  |
| ID Cod | (A=Service Ready, B=Not Service Ready): | Program Elements for Code B Items: 0401134F |  |  |  |  | Other Related Program Elements: 0401134F |  |  |  |
| Line Item MDAP/MAIS Code: N/A |  |  |  |  |  |  |  |  |  |  |
| Exhibits Schedule |  |  |  |  | Prior Years | FY 2020 | FY 2021 | FY 2022 Base | FY 2022 OCO | FY 2022 Total |
| $\begin{aligned} & \text { Exhibit } \\ & \text { Type } \end{aligned}$ | Title* | Subexhibits | $\begin{aligned} & \text { ID } \\ & \text { CD } \end{aligned}$ | MDAP/ MAIS Code | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) |
| P-40a*** | 8629C130 / LARGE AIRCRAFT INFRARED COUNTERMEASURES C-130 (Capability Improvement) |  |  |  | - / 15.685 | - 1 | - 1 - | - 1 - | - 1- | -1 |
| P-40a*** | 8629C5 I LARGE AIRCRAFT INFRARED COUNTERMEASURES C-5 (Capability Improvement) |  |  |  | - 144.896 | - 18.177 | - 1 - | - 1 - | - 1 - | - 1 |
| P-40a*** | 8629C17 / LARGE AIRCRAFT INFRARED COUNTERMEASURES C -17 (Capability Improvement) |  |  |  | - 1214.894 | - / 35.581 | - 19.999 | - 10.000 | - 1 - | - 10.000 |
| P-40a*** | 8629CFIN / LAIRCM CFIN (Capability Improvement) |  |  |  | - 1 | - 1 | - 17.500 | - 1 | - 1 | - 1 |
| P-3a | $1 /$ LARGE AIRCRAFT INFRARED COUNTERMEASURES C-130J (Capability Improvement) |  | B |  | - / 165.410 | - / 53.335 | - / 38.821 | - / 57.001 | - 10.000 | - / 57.001 |
| P-40 | Total Gross/Weapon System Cost |  |  |  | - 1440.885 | - 197.093 | - 156.320 | - 157.001 | - 1 - | - 157.001 |

*** Although this is an Exhibit P-40a item, the actual exhibit is not included since all of the required information for this item is already being shown here.
*Title represents 1) the Number / Title for Items; 2) the Number / Title [DODIC] for Ammunition; and/or 3) the Number / Title (Modification Type) for Modifications
Note: Totals in this Exhibit P-40 set may not be exact or sum exactly due to rounding.

## Justification:

FY 2022 funding resolves LAIRCM Diminishing Manufacturing Source issues and procures LAIRCM kit(s) for C-130J aircraft.

Exhibit P-3a, Individual Modification: PB 2022 Air Force

## Appropriation / Budget Activity / Budget Sub Activity:

 3010F/05/1
## P-1 Line Item Number / Title: LAIRCM / Large Aircraft Infrared Countermeasures

Date: May 2021

## Modification Number / Title: <br> 1 / LARGE AIRCRAFT INFRARED COUNTERMEASURES C-130J

| ID Code (A=Service Ready, B=Not Service Ready) : B | MDAP/MAIS Code: |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Resource Summary | Prior Years | FY 2020 | FY 2021 | FY 2022 Base | FY 2022 OCO | FY 2022 Total |
| Procurement Quantity (Units in Each) | - | - | - | - | - | - |
| Gross/Weapon System Cost (\$ in Millions) | 165.410 | 53.335 | 38.821 | 57.001 | 0.000 | 57.001 |
| Less PY Advance Procurement (\$ in Millions) | - | - | - | - | - | - |
| Net Procurement (P-1) (\$ in Millions) | 165.410 | 53.335 | 38.821 | 57.001 | 0.000 | 57.001 |
| Plus CY Advance Procurement (\$ in Millions) | - | - | - | - | - | - |
| Total Obligation Authority (\$ in Millions) | 165.410 | 53.335 | 38.821 | 57.001 | 0.000 | 57.001 |
| (The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.) |  |  |  |  |  |  |
| Initial Spares (\$ in Millions) | - | - | - | - | - | - |
| Gross/Weapon System Unit Cost (\$ in Millions) | - | - | - | - | - | - |

## Description:



 configuration of LRUs. Block 30 specifically improves capability to detect, track, jam, and counter IR missiles.

This program includes costs for the following C-130J aircraft variants: C-130J stretch aircraft, C-130J short aircraft.
This funding includes Rapid Global Mobility (RGM) platform related activities including but not limited to fielding actions such as kit buys, installation and support equipment.








The cost element "OTHER GOVT" in this P3A includes costs for DMS, these costs are explained below.




 equipment (i.e., development of a new item or source; redesign of a next higher assembly; and redesign of a complex/system replacement).
Milestone/Development Status

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| Exhibit P-3a, Individual Modification: PB 2022 Air Force |  |  |  |  | Date: May 2021 |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 1 |  | P-1 Line Item Number / Title: <br> LAIRCM / Large Aircraft Infrared Countermeasures |  |  | Modification Number / Title: <br> 1 / LARGE AIRCRAFT INFRARED COUNTERMEASURES C-130J |  |
| ID Code (A=Service Ready, B=Not Service Ready) : B |  |  | MDAP/MAIS Code: |  |  |  |
| Models of Systems Affected: C130J | Modification Type: Capability Improvement |  |  | Related RDT\&E PEs: 0401134F |  |  |
|  | Prior Years | FY 2020 | FY 2021 | FY 2022 Base | FY 2022 OCO | FY 2022 Total |
| Financial Plan | Qty (Each) I Total Cost (\$ M) | Qty (Each) I Total Cost (\$ M) | Qty (Each) I Total Cost (\$ M) | Qty (Each) I Total Cost (\$ M) | Qty (Each) I <br> Total Cost (\$ M) | Qty (Each) I Total Cost (\$ M) |
| Procurement |  |  |  |  |  |  |
| Modification Item 1 of 3: Basic Js (Block 20) |  |  |  |  |  |  |
| A Kits |  |  |  |  |  |  |
| Recurring |  |  |  |  |  |  |
| Basic Js (Block 20):INSTALL KITS Group A (Active) | $32 / 41.386$ | - 1- | - 1 - | - 1- | - 1 - | 1 - |
| Basic Js (Block 20):INSTALL KITS Group A (Guard) | 2/3.964 | - 1 - | - 1 - | - 1 - | - 1 - | 1 - |
| Subtotal: Recurring | - /45.350 | - 1- | - 1 - | - 1- | - 1 - | 1- |
| B Kits |  |  |  |  |  |  |
| Recurring |  |  |  |  |  |  |
| Basic Js (Block 20):EQUIPMENT Group B (Active) | $32 / 13.275$ | - 1- | - 1- | - 1- | - 1- | 1 |
| Subtotal: Recurring | - /13.275 | - 1- | - 1 - | - 1- | - 1- | 1- |
| Subtotal: Basic Js (Block 20) | - /58.625 | - 1- | - / - | - / - | - / - | / - |
| Modification Item 2 of 3: Basic Js (Block 30) |  |  |  |  |  |  |
| A Kits |  |  |  |  |  |  |
| Recurring |  |  |  |  |  |  |
| Basic Js (Block 30):INSTALL KITS Group A (Active) | $2 / 3.916$ | 18/15.000 | - 1- | - 1- | - 1 - | 1 - |
| Subtotal: Recurring | - /3.916 | - /15.000 | - 1 - | - 1 - | - 1 - | 1- |
| B Kits |  |  |  |  |  |  |
| Recurring |  |  |  |  |  |  |
| Basic Js (Block 30):EQUIPMENT Group B (Active) | 8/13.218 | 12/32.365 | - 1 - | 1/2.419 | - 1 - | 1/2.419 |
| Subtotal: Recurring | - /13.218 | - /32.365 | - 1 - | - /2.419 | - 1 - | - / 2.419 |
| Subtotal: Basic Js (Block 30) | - /17.134 | - /47.365 | - 1 - | - /2.419 | - / - | - /2.419 |
| Modification Item 3 of 3: EC-130Js |  |  |  |  |  |  |
| A Kits |  |  |  |  |  |  |
| Recurring |  |  |  |  |  |  |
| EC-130Js:INSTALL KITS Group A (Active) | 5/11.900 | - 1- | - 1- | - 1- | - 1 - | - 1- |
| Subtotal: Recurring | - /11.900 | - 1 - | - 1 - | - 1 - | - 1 - | - 1- |
| Subtotal: EC-130Js | - /11.900 | - / - | - 1 - | - / - | - / - | - 1 - |
| Subtotal: Procurement, All Modification Items | - /87.659 | - /47.365 | - 1 - | - /2.419 | - 1 - | - /2.419 |
| Support (All Modification Items) |  |  |  |  |  |  |
| GROUP A: TOTAL NONRECURRING | - 15.672 | - 1- | - 1- | - 1- | - 1- | - 1- |


| Exhibit P-3a, Individual Modification: PB 2022 Air Force |  |  |  |  | Date: May 2021 |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 1 |  | P-1 Line Item Number / Title: LAIRCM / Large Aircraft Infrared Countermeasures |  |  | Modification Number / Title: 1 / LARGE AIRCRAFT INFRARED COUNTERMEASURES C-130J |  |
| ID Code (A=Service Ready, $\mathrm{B}=$ Not Service Ready) : B |  |  | MDAP/MAIS Code: |  |  |  |
| Models of Systems Affected: C130J | Modification Type: Capability Improvement |  |  | Related RDT\&E PEs: 0401134F |  |  |
|  | Prior Years | FY 2020 | FY 2021 | FY 2022 Base | FY 2022 OCO | FY 2022 Total |
| Financial Plan | $\begin{aligned} & \text { Qty (Each) I } \\ & \text { Total Cost (\$ M) } \end{aligned}$ | $\begin{gathered} \text { Qty (Each) I } \\ \text { Total Cost (\$M) } \end{gathered}$ | Qty (Each) I Total Cost (\$ M) | $\begin{gathered} \text { Qty (Each) I } \\ \text { Total Cost (\$M) } \end{gathered}$ | $\begin{gathered} \text { Qty (Each) I } \\ \text { Total Cost (\$ M) } \end{gathered}$ | $\begin{gathered} \text { Qty (Each) I } \\ \text { Total Cost (\$ M) } \end{gathered}$ |
| GROUP B: TOTAL NONRECURRING | - 124.442 | - 11.145 | - 1- | - 1- | - 1- | - 1- |
| Data | - 10.753 | - 10.100 | - 10.100 | - 1. | - 1- | - 1. |
| SIM/TRAINER | - 1 - | - 1 - | - 15.000 | - 1 - | -1- | -1- |
| SUPPORT-EQUIP | - 11.614 | - 1- | - 10.925 | -1- | -1- | -1- |
| Change Orders | - 12.283 | 1 - | - 1- | - 1- | -1- | - 1- |
| ICS-Labor | - 12.551 | - 10.208 | - 10.918 | - 1- | -1- | - 1 - |
| PMA - Contractor Services | - 10.787 | - 10.423 | - 16.801 | - 1- | -1. | - 1 - |
| OTHER GOVT | - /15.693 | - 12.795 | - 14.993 | - 152.082 | -1. | - 152.082 |
| PMA - Other Gov't Costs | - 14.258 | - 11.299 | - 11.625 | - 12.500 | -1- | - 12.500 |
| Subtotal: Support | - /58.053 | - 15.970 | - 120.362 | - 154.582 | - 1- | - 154.582 |
| Installation |  |  |  |  |  |  |
| Modification Item 1 of 3: Basic Js (Block 20) | $34 / 13.211$ | 1 - | 1 - | - 1 - | $1-$ | - 1 - |
| Modification Item 2 of 3: Basic Js (Block 30) | 210.718 | - 1- | 18/18.459 | - 1 - | - 1 - | - 1 - |
| Modification Item 3 of 3: EC-130Js | $5 / 5.769$ | - 1- | - 1- | - 1 - | - 1- | - 1 - |
| Subtotal: Installation | 41/19.698 | - 1- | 18/18.459 | - 1- | - 1- | - 1- |
| Total |  |  |  |  |  |  |
| Total Cost (Procurement + Support + Installation) | 165.410 | 53.335 | 38.821 | 57.001 | 0.000 | 57.001 |





| Appropriation / Budget Activity / Budget Sub Activity: |
| :--- |
| 3010F: Aircraft Procurement, Air Force / BA 05: Modification of Inservice Aircraft / |
| BSA 2: Tactical Aircraft |

## P-1 Line Item Number / Title: <br> A01000 / A-10

| ID Code (A=Service Ready, B=Not Service Ready): B | Program Elements for Code B Items: 0207131F | Other Related Program Elements: 0207131F |
| :--- | :--- | :--- | :--- |

Line Item MDAP/MAIS Code: N/A

| Resource Summary | Prior <br> Years | FY 2020 | FY 2021 | $\begin{gathered} \text { FY } 2022 \\ \text { Base } \end{gathered}$ | $\begin{gathered} \text { FY } 2022 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \text { FY } 2022 \\ \text { Total } \end{gathered}$ | FY 2023 | FY 2024 | FY 2025 | FY 2026 | To Complete | Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Procurement Quantity (Units in Each) | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Cost (\$ in Millions) | 318.397 | 125.788 | 135.793 | 83.621 | - | 83.621 | - | - | - | - | - | - |
| Less PY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Net Procurement (P-1) (\$ in Millions) | 318.397 | 125.788 | 135.793 | 83.621 | - | 83.621 | - | - | - | - | - | - |
| Plus CY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Total Obligation Authority (\$ in Millions) | 318.397 | 125.788 | 135.793 | 83.621 | - | 83.621 | - | - | - | - | - | - |
| (The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.) |  |  |  |  |  |  |  |  |  |  |  |  |
| Initial Spares (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Flyaway Unit Cost (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Unit Cost (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |

## Description:

This line item funds modifications and upgrades to the A-10 weapon system to ensure it remains combat effective. The A-10 is a twin engine, single seat aircraft capable of delivering a full range of air-to-ground munitions as well as self-defense air-to-air missiles. The A-10 provides persistent, effective and precise Close Air Support, Interdiction, Forward Air Controller (airborne), Combat Search \& Rescue and Strike Control \& Reconnaissance. Funding for this exhibit is contained in PE 0207131F.

Wing Replacement Program (ATTACK) procures new wings to enable the A-10 Fleet to fly and fight into 2030+. A new wing procurement effort will provide flexibility in fleet size options and provides resiliency in the existing fleet.

Helmet Mounted Cueing System (HMCS) Interim Contractor Support (ICS) is needed to repair critical components to keep units fully operational. The HMCS program is jointly managed by the A-10 and F-16 System Program Offices and provides extant A-10Cs and F-16C+ Block 30/32 aircraft with a Helmet Mounted Integrated Targeting (HMIT) System that will provide off-boresight cueing, targeting, and situational awareness capability.

ARC-210 replaces current ARC-210 Gen 4 radio(s) with Gen 6 to insure crypto compliance, replaces current Radio Control Unit (RCU) with C-12561B (required update for Gen 6), maintains same functionality of the Gen 4, continues using 1553 Bus controller vice an Ethernet connection, and replaces ARC-164 with ARC-210 Gen 4 (Suite 11). Installs will be either Contract Field Team (CFT) or Depot Speed Line (DSL) which is organic. Procurement funds are for the hardware purchases for the fleet FY20-22. Procurement funds after that will be used for installs. Suite 11 is scheduled to field 4 QFY22. ARC-210 Gen 6 installs will follow soon after. Currently pursuing an integration contract via RDT\&E dollars.

2ND Gigabit Ethernet Switch (2GES) supports future avionics modernizations. Predecessor to 3 Dimensional Audio (3DA), High Resolution Display (HRDS), and ARC-210 programs.
A-10 High Resolution Display System (HRDS) is a technology enabler providing a platform for enhanced tactical applications that will function as a Primary Flight Display and provide Hi Resolution video from Advanced Targeting Pods. The A-10 HRDS is a true next-gen digital interface that will replace legacy analog flight instruments and provide higher resolution video signals to improve the pilot's ability to find, fix, track, target and engage ground targets and threats while reducing pilot workload.

3-Dimensional Audio (3DA) improves the spatial, battle space, and situational awareness (SA) of A-10C pilots through the addition of a digital intercom system upgrade, active and electronic noise reduction, three-dimensional spatial separation for up to four audio channels, and three-dimensional auditory threat cueing from the aircraft missile warning system and radar warning receiver.

## UNCLASSIFIED

Page 1 of 19
P-1 Line \#28
Volume 2-63

Exhibit P-40, Budget Line Item Justification: PB 2022 Air Force

## Appropriation / Budget Activity / Budget Sub Activity: <br> 3010F: Aircraft Procurement, Air Force / BA 05: Modification of Inservice Aircraft /

## P-1 Line Item Number / Title: <br> A01000 / A-10

BSA 2: Tactical Aircraft
ID Code (A=Service Ready, B=Not Service Ready): B
Program Elements for Code B Items: 0207131F
Other Related Program Elements: 0207131F

## Line Item MDAP/MAIS Code: N/A


 determined by ACC.
 defense missions, domestic emergency responses, and providing military support to civil authorities.

| Secondary Distribution |  | FY 2020 | FY 2021 | FY 2022 Base | $\begin{aligned} & \text { FY } 2022 \\ & \text { OCO } \end{aligned}$ | $\begin{gathered} \text { FY } 2022 \\ \text { Total } \end{gathered}$ | FY 2023 | FY 2024 | FY 2025 | FY 2026 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| AF | Quantity | - | - | - | - | - | - | - | - | - |
|  | Total Obligation Authority | 66.824 | 102.116 | 59.154 | 0.000 | 59.154 | - | - | - | - |
| AFNG | Quantity | - | - | - | - | - | - | - | - | - |
|  | Total Obligation Authority | 38.658 | 19.891 | 13.178 | - | 13.178 | - | - | - | - |
| AFR | Quantity | - | - | - | - | - | - | - | - | - |
|  | Total Obligation Authority | 20.306 | 13.786 | 11.289 | - | 11.289 | - | - | - | - |
| Total: <br> Secondary Distribution | Quantity | - | - | - | - | - | - | - | - | - |
|  | Total Obligation Authority | 125.788 | 135.793 | 83.621 | 0.000 | 83.621 | - | - | - | - |

Appropriation / Budget Activity / Budget Sub Activity:
3010F: Aircraft Procurement, Air Force / BA 05: Modification of Inservice Aircraft /
BSA 2: Tactical Aircraft

## P-1 Line Item Number / Title: <br> A01000 / A-10

| ID Code (A=Service Ready, B=Not Service Ready): B | Program Elements for Code B Items: 0207131F | Other Related Program Elements: 0207131F |
| :--- | :--- | :--- | :--- |

Line Item MDAP/MAIS Code: N/A

| Exhibits Schedule |  |  |  |  | Prior Years | FY 2020 | FY 2021 | FY 2022 Base | FY 2022 OCO | FY 2022 Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Exhibit Type | Title* | Subexhibits | $\begin{aligned} & \text { ID } \\ & \text { CD } \end{aligned}$ | MDAP/ MAIS Code | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) |
| P-40a*** | 7856 / MODE S/5 (Capability Improvement) |  |  |  | - / 14.520 | - 10.000 | - 10.980 | - 1 | 1 | 1 - |
| P-40a*** | 9804 / A-10 Wing Replacement Program (Reliability \& Maintainability) |  |  |  | - 1268.306 | - 193.755 | - 199.863 | - 10.044 | - 1 | - 10.044 |
| P-40a*** | 9806 / A-10 Helmet Mounted Cueing System (Capability Improvement) |  |  |  | - 10.890 | - /1.170 | - 11.300 | - 13.004 | 1 | 13.004 |
| P-40a*** | 9816/ A-10 Conversion Fuel Tanks (Capability Improvement) |  |  |  | - 18.700 | 1 | - 1 | - 1 | 1 | 1 |
| P-40a*** | 9832 / 2ND GIGABIT ETHERNET SWITCH (2GES) (Capability Improvement) |  |  |  | - 1 - | - $/ 5.000$ | - 14.800 | - 12.900 | - 1 | - 12.900 |
| P-40a*** | 9839 / SDB-1 (Capability Improvement) |  |  |  | - 1 | - 18.000 | - 1 | - 14.400 | 1 | - 14.400 |
| P-40a*** | 99999x / Low Cost Modifications (Capability Improvement) |  |  |  | 1 | - 1 | - 1 | - 12.000 | 1 | - 12.000 |
| P-3a | 9601 / ONBOARD OXYGEN GENERATING SYSTEM (OBOGS) (Reliability \& Maintainability) |  | B |  | - / 25.981 | - 12.500 | - 14.700 | - 19.500 | - 10.000 | - 19.500 |
| P-3a | 9831 / ARC-210 (Capability Improvement) |  | B |  | - 10.000 | - 18.600 | - / 18.350 | - 132.300 | - 10.000 | - 132.300 |
| P-3a | 9834 / A-10 High Resolution Display System (HRDS) (Capability Improvement) |  | B |  | - 10.000 | - 15.763 | - 10.500 | - / 20.173 | - 10.000 | - / 20.173 |
| P-3a | 9836 / 3-Dimensional Audio (3DA) (Capability Improvement) |  | B |  | - 10.000 | - 11.000 | - 15.300 | - 19.300 | - 10.000 | - 19.300 |
| P-40 | Total Gross/Weapon System Cost |  |  |  | - 1318.397 | - 1125.788 | - /135.793 | - 183.621 | 1 | - 183.621 |

*** Although this is an Exhibit P-40a item, the actual exhibit is not included since all of the required information for this item is already being shown here.
*Title represents 1) the Number / Title for Items; 2) the Number / Title [DODIC] for Ammunition; and/or 3) the Number / Title (Modification Type) for Modifications.
Note: Totals in this Exhibit P-40 set may not be exact or sum exactly due to rounding

## Justification:

This program, P-3A Mod 9839, SDB-1, is a new start.
This line item funds modifications and upgrades to the A-10 weapon system to ensure it remains combat effective. The A-10 is a twin engine, single seat aircraft capable of delivering a full range of air-to-ground munitions as well as self-defense air-to-air missiles. The A-10 provides persistent, effective and precise Close Air Support, Interdiction, Forward Air Controller (airborne), Combat Search \& Rescue and Strike Control \& Reconnaissance. Funding for this exhibit is contained in PE 0207131F.

Wing Replacement Program (ATTACK) procures new wings to enable the A-10 Fleet to fly and fight into 2030+. A new wing procurement effort will provide flexibility in fleet size options and provides resiliency in the existing fleet

 awareness capability.



## Appropriation / Budget Activity / Budget Sub Activity: <br> 3010F: Aircraft Procurement, Air Force / BA 05: Modification of Inservice Aircraft /

 BSA 2: Tactical AircraftID Code (A=Service Ready, B=Not Service Ready): B
Program Elements for Code B Items: 0207131F
Other Related Program Elements: 0207131F

## Line Item MDAP/MAIS Code: N/A

 follow soon after. Currently pursuing an integration contract via RDT\&E dollars.

2ND Gigabit Ethernet Switch (2GES) supports future avionics modernizations. Predecessor to 3 Dimensional Audio (3DA), High Resolution Display (HRDS), and ARC-210 programs

 track, target and engage ground targets and threats while reducing pilot workload.
 three-dimensional spatial separation for up to four audio channels, and three-dimensional auditory threat cueing from the aircraft missile warning system and radar warning receiver.

 determined by ACC.
 defense missions, domestic emergency responses, and providing military support to civil authorities.

| Exhibit P-3a, Individual Modification: PB 2022 Air Force |  |  |  |  | Date: May 2021 |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 2 | P-1 Line Item Number / Title: A01000 / A-10 |  |  |  | Modification Number / Title: 9601 I ONBOARD OXYGEN GENERATING SYSTEM (OBOGS) |  |
| ID Code ( $A=$ Service Ready, $\mathrm{B}=$ Not Service Ready) : B | MDAP/MAIS Code: |  |  |  |  |  |
| Resource Summary | Prior Years | FY 2020 | FY 2021 | FY 2022 Base | FY 2022 OCO | FY 2022 Total |
| Procurement Quantity (Units in Each) | - | - | - | - | - | - |
| Gross/Weapon System Cost (\$ in Millions) | 25.981 | 2.500 | 4.700 | 9.500 | 0.000 | 9.500 |
| Less PY Advance Procurement (\$ in Millions) | - | - | - | - | - | - |
| Net Procurement (P-1) (\$ in Millions) | 25.981 | 2.500 | 4.700 | 9.500 | 0.000 | 9.500 |
| Plus CY Advance Procurement (\$ in Millions) | - | - | - | - | - | - |
| Total Obligation Authority (\$ in Millions) | 25.981 | 2.500 | 4.700 | 9.500 | 0.000 | 9.500 |
| (The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.) |  |  |  |  |  |  |
| Initial Spares (\$ in Millions) | - | - | - | - | - | - |
| Gross/Weapon System Unit Cost (\$ in Millions) | - | - | - | - | - | - |

## Description:


 sorties.

All OBOGS kits were purchased with approved exception waiver. All remaining efforts are for installs, and the schedule is based on current approved funding through the FYDP
All kits were purchased in FY19, supporting fleet of 281-prior to planned reduction to 218
There are 2 kits, an "A Kit and a "B kit. 1 of each is required per install.
We purchased 233 A Kits and 254 B Kits. (Total of 487 kits)
52 A-10s were previously modified to OBOGS
281 (fleet)-52 (previous) $229+2$ trainers 231
233 A Kits includes 2 spares; 254 B Kits includes 23 spares (provided to supply)
Mitigation for fleet reduction: additional kit components will be provided as spares
Milestone/Development Status
N/A

| Secondary Distribution |  | FY 2020 | FY 2021 | $\text { FY } 2022$ <br> Base | $\begin{gathered} \text { FY } 2022 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \text { FY } 2022 \\ \text { Total } \end{gathered}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| AF | Quantity | - | - | - | - | - |
|  | Total Obligation Authority | 1.690 | 2.853 | 5.250 | - | 5.250 |
| AFNG | Quantity | - | - | - | - | - |
|  | Total Obligation Authority | 0.530 | 1.153 | 2.600 | - | 2.600 |
| AFR | Quantity | - | - | - | - | - |
|  | Total Obligation Authority | 0.280 | 0.694 | 1.650 | - | 1.650 |

UNCLASSIFIED
Page 5 of 19

UNCLASSIFIED

| Exhibit P-3a, Individual Modification: PB 2022 Air Force |  |  |  |  | Date: May 2021 |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 2 |  | P-1 Line Item Number / Title: A01000 / A-10 |  |  | Modification Number / Title: <br> 9601 / ONBOARD OXYGEN <br> GENERATING SYSTEM (OBOGS) |  |  |
| ID Code (A=Service Ready, B=Not Service Ready) : B |  |  | MDAP/MAIS Code: |  |  |  |  |
| Secondary Distribution |  | FY 2020 | FY 2021 | $\begin{gathered} \text { FY } 2022 \\ \text { Base } \end{gathered}$ | $\begin{aligned} & \text { FY } 2022 \\ & \text { OCO } \end{aligned}$ | $\begin{gathered} \text { FY } 2022 \\ \text { Total } \end{gathered}$ |  |
| Total: Secondary Distribution | Quantity | - | - | - | - |  | - |
|  | Total Obligation Authority | 2.500 | 4.700 | 9.500 | 00.000 |  | 9.500 |

## UNCLASSIFIED

| Exhibit P-3a, Individual Modification: PB 2022 Air Force |  |  |  |  | Date: May 2021 |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 2 |  | P-1 Line Item Number / Title: A01000 / A-10 |  |  | Modification Number / Title: 9601 / ONBOARD OXYGEN GENERATING SYSTEM (OBOGS) |  |
| ID Code (A=Service Ready, B=Not Service Ready) : B |  |  | MDAP/MAIS Code: |  |  |  |
| Models of Systems Affected: A-10 <br> Financial Plan | Modification Type: Reliability \& Maintainability |  |  | Related RDT\&E PEs: 0207131F |  |  |
|  | Prior Years | FY 2020 | FY 2021 | FY 2022 Base | FY 2022 OCO | FY 2022 Total |
|  | Qty (Each) I Total Cost (\$ M) | Qty (Each) I Total Cost (\$ M) | Qty (Each) I Total Cost (\$ M) | Qty (Each) I Total Cost (\$ M) | $\begin{gathered} \text { Qty (Each) I } \\ \text { Total Cost (\$ M) } \end{gathered}$ | Qty (Each) I <br> Total Cost (\$ M) |
| Procurement |  |  |  |  |  |  |
| Modification Item 1 of 2: A/B Kits |  |  |  |  |  |  |
| A Kits |  |  |  |  |  |  |
| Recurring |  |  |  |  |  |  |
| A/B Kits:INSTALL KITS Group A (Active) | 259/10.926 | - 1- | - 1- | - 1- | - 1- | - 1 - |
| A/B Kits:INSTALL KITS Group A (Guard) | 138/5.822 | - 1 - | - 1 - | - 1 - | - 1 - | 1 - |
| A/B Kits:INSTALL KITS Group A (Reserve) | $90 / 3.797$ | - 1- | - 1- | - 1- | - 1 - | 1 - |
| Subtotal: Recurring | - /20.545 | - 1 - | - 1 - | - 1 - | - / - | - 1 - |
| Subtotal: A/B Kits | - /20.545 | / - | - 1 - | - 1 | - / - | / - |
| Modification Item 2 of 2: COMMON: A Kit |  |  |  |  |  |  |
| B Kits |  |  |  |  |  |  |
| Recurring |  |  |  |  |  |  |
| COMMON: A Kit:EQUIPMENT Group B (Active) | - 10.000 | - 1- | - 1- | - 1- | - 1- | - 1- |
| Subtotal: Recurring | - 10.000 | - / - | - 1 - | - / - | - / - | - / - |
| Subtotal: COMMON: A Kit | - 10.000 | - 1- | - 1 - | - / - | - / - | - 1 - |
| Subtotal: Procurement, All Modification Items | - /20.545 | 1 - | - 1 - | - 1 | - 1 - | / - |
| Support (All Modification Items) |  |  |  |  |  |  |
| PMA - Other Gov't Costs | - 1 - | - 10.060 | - 10.280 | - 11.000 | - 1- | - 11.000 |
| SUPPORT-EQUIP | - 1- | - 10.600 | - 10.500 | - 1 - | - 1- | - 1- |
| Subtotal: Support | 1 | - 10.660 | - 10.780 | - /1.000 | / - | - 11.000 |
| Installation |  |  |  |  |  |  |
| Modification Item 1 of 2: A/B Kits | $68 / 5.436$ | $26 / 1.840$ | $46 / 3.920$ | $100 / 8.500$ | - 1 - | $100 / 8.500$ |
| Subtotal: Installation | 68/5.436 | 26/1.840 | 46/3.920 | 100/8.500 | - / - | 100/8.500 |
| Total |  |  |  |  |  |  |
| Total Cost (Procurement + Support + Installation) | 25.981 | 2.500 | 4.700 | 9.500 | 0.000 | 9.500 |

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Exhibit P-3a, Individual Modification: PB 2022 Air Force

## Appropriation / Budget Activity / Budget Sub Activity:

 3010F/05/2Date: May 2021

## Modification Number / Title:

9831 / ARC-210

ID Code (A=Service Ready, B=Not Service Ready) : B

## P-1 Line Item Number / Title:

 A01000 / A-10ID Code (A=Service Ready, B=Not Senice Ready) B B $\quad$ MDAP/MAIS Code:

| Resource Summary | Prior Years | FY 2020 | FY 2021 | FY 2022 Base | FY 2022 OCO | FY 2022 Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Procurement Quantity (Units in Each) | - | - | - | - | - | - |
| Gross/Weapon System Cost (\$ in Millions) | 0.000 | 8.600 | 18.350 | 32.300 | 0.000 | 32.300 |
| Less PY Advance Procurement (\$ in Millions) | - | - | - | - | - | - |
| Net Procurement (P-1) (\$ in Millions) | 0.000 | 8.600 | 18.350 | 32.300 | 0.000 | 32.300 |
| Plus CY Advance Procurement (\$ in Millions) | - | - | - | - | - | - |
| Total Obligation Authority (\$ in Millions) | 0.000 | 8.600 | 18.350 | 32.300 | 0.000 | 32.300 |
| (The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.) |  |  |  |  |  |  |
| Initial Spares (\$ in Millions) | - | - | - | - | - | - |
| Gross/Weapon System Unit Cost (\$ in Millions) | - | - | - | - | - | - |

## Description:

Continued modernization efforts require the replacement of legacy communication systems in the A-10C. These systems are logistically unsupported and vulnerable to emerging cyber threats due to the lack of updates. A National Security Agency (NSA) mandate exists that requires updates/compliance to current cyber security threats. Also, current communication radios in the jet are not setup to handle all necessary frequencies and networks required for military communications over the next 10 years. Active duty is tasked to pay for the fleet upgrade including AFRC/ANG aircraft.

Replace current ARC-210 Gen 4 radio(s) with Gen 6 to insure crypto compliance. Replace current Radio Control Unit (RCU) with C-12561B (required update for Gen 6). Maintain same functionality of the Gen 4. Continue using 1553 Bus controller vice an Ethernet connection. Replace ARC-164 with ARC-210 Gen 4 (Suite 12). Replace the current HPA/LNA with a Mobile User Objective System (MUOS) compatible HPA/ LNA. Installs will be primarily DSL (Depot Speed Line/Organic). Suite 11 scheduled to field 4th Qtr FY22. ARC-210 Gen 6 installs will follow soon after. Currently under contract for RDT\&E dollars.

 that would need a modification done prior to being able to install two Gen 6 radios so those jets would require an additional kit.

Requirement and funding layout updated to reflect 218 TAI (Total Aircraft Inventory).
Milestone/Development Status

| Development Complete |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Secondary Distribution |  | FY 2020 | FY 2021 | FY 2022 Base | $\begin{gathered} \text { FY } 2022 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \text { FY } 2022 \\ \text { Total } \end{gathered}$ |
| AF | Quantity | - | - | - | - | - |
|  | Total Obligation Authority | - | 9.020 | 12.083 | - | 12.083 |
| AFNG | Quantity | - | - | - | - | - |
|  | Total Obligation Authority | 5.092 | 7.488 | 10.578 | - | 10.578 |
| AFR | Quantity | - | - | - | - | - |
|  | Total Obligation Authority | 3.508 | 1.842 | 9.639 | - | 9.639 |
| Total: | Quantity | - | - | $\cdots$ | - | - |

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| Exhibit P-3a, Individual Modification: PB 2022 Air Force |  |  |  | Date: May 2021 <br> Modification Number / Title: <br> 9831 / ARC-210 |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 2 | P-1 Line Item Number / Title: A01000 / A-10 |  |  |  |  |
| ID Code (A=Service Ready, $\mathrm{B}=$ Not Service Ready) : B |  | MDAP/MAIS Code: |  |  |  |
| Secondary Distribution | FY 2020 | FY 2021 | $\begin{gathered} \text { FY } 2022 \\ \text { Base } \end{gathered}$ | $\begin{aligned} & \text { FY } 2022 \\ & \text { OCO } \end{aligned}$ | $\begin{aligned} & \text { FY } 2022 \\ & \text { Total } \end{aligned}$ |
| Secondary Distribution Total Obligation Authority | 8.600 | 18.350 | 32.300 | 0.000 | 32.300 |

## UNCLASSIFIED

| Exhibit P-3a, Individual Modification: PB 2022 Air Force |  |  |  |  | Date: May 2021 |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 2 |  | P-1 Line Item Number / Title: A01000 / A-10 |  |  | Modification Number / Title:$9831 \text { / ARC-210 }$ |  |
| ID Code (A=Service Ready, B=Not Service Ready) : B |  |  | MDAP/MAIS Code: |  |  |  |
| Models of Systems Affected: A-10C | Modification Type: Capability Improvement   <br> Prior Years FY 2020 FY 2021 |  |  | Related RDT\&E PEs: 0207131F |  |  |
|  |  |  |  | FY 2022 Base | FY 2022 OCO | FY 2022 Total |
| Financial Plan | $\begin{gathered} \text { Qty (Each) I } \\ \text { Total Cost (\$ M) } \end{gathered}$ | $\begin{gathered} \text { Qty (Each) I } \\ \text { Total Cost (\$M) } \end{gathered}$ | $\begin{gathered} \text { Qty (Each) I } \\ \text { Total Cost (\$ M) } \end{gathered}$ | $\begin{gathered} \text { Qty (Each) I } \\ \text { Total Cost (\$M) } \end{gathered}$ | $\begin{gathered} \text { Qty (Each) I } \\ \text { Total Cost (\$ M) } \end{gathered}$ | $\begin{gathered} \text { Qty (Each) I } \\ \text { Total Cost (\$M) } \end{gathered}$ |
| Procurement |  |  |  |  |  |  |
| Modification Item 1 of 1: Equipment |  |  |  |  |  |  |
| B Kits |  |  |  |  |  |  |
| Recurring |  |  |  |  |  |  |
| Equipment:EQUIPMENT Group B (Active) | - 1- | 1 - | 108/9.020 | 113/9.383 | 1 - | 113/9.383 |
| Equipment:EQUIPMENT Group B (Guard) | - 1- | $28 / 5.092$ | 10717.488 | 112/9.203 | -1- | 112/9.203 |
| Equipment:EQUIPMENT Group B (Reserve) | -1- | $19 / 3.508$ | $36 / 1.842$ | 93/8.764 | -1. | 93/8.764 |
| Subtotal: Recurring | - 1- | - 18.600 | - /18.350 | - /27.350 | - 1 | - 127.350 |
| Subtotal: Equipment | - 1- | - 18.600 | - /18.350 | - /27.350 | - 1- | - 127.350 |
| Subtotal: Procurement, All Modification Items | - 1 - | - 18.600 | - /18.350 | - /27.350 | 1 - | - 127.350 |
| Installation |  |  |  |  |  |  |
| Modification Item 1 of 1: Equipment | - 1 - | 1 - | 1. | 198/4.950 | - 1- | $198 / 4.950$ |
| Subtotal: Installation | - 1- | - 1- | - 1- | 198/4.950 | - 1- | 198/4.950 |
| Total |  |  |  |  |  |  |
| Total Cost (Procurement + Support + Installation) | 0.000 | 8.600 | 18.350 | 32.300 | 0.000 | 32.300 |

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| Exhibit P-3a, Individual Modification: PB 2022 Air Force |  |  |  |  | Date: May 2021 |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 2 | P-1 Line Item Number / Title: A01000 / A-10 |  |  |  | Modification Number / Title: 9834 / A-10 High Resolution Display System (HRDS) |  |
| ID Code (A=Service Ready, B=Not Service Ready) : B | MDAP/MAIS Code: |  |  |  |  |  |
| Resource Summary | Prior Years | FY 2020 | FY 2021 | FY 2022 Base | FY 2022 OCO | FY 2022 Total |
| Procurement Quantity (Units in Each) | - | - | - | - | - | - |
| Gross/Weapon System Cost (\$ in Millions) | 0.000 | 5.763 | 0.500 | 20.173 | 0.000 | 20.173 |
| Less PY Advance Procurement (\$ in Millions) | - | - | - | - | - | - |
| Net Procurement (P-1) (\$ in Millions) | 0.000 | 5.763 | 0.500 | 20.173 | 0.000 | 20.173 |
| Plus CY Advance Procurement (\$ in Millions) | - | - | - | - | - | - |
| Total Obligation Authority (\$ in Millions) | 0.000 | 5.763 | 0.500 | 20.173 | 0.000 | 20.173 |
| (The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.) |  |  |  |  |  |  |
| Initial Spares (\$ in Millions) | - | - | - | - | - | - |
| Gross/Weapon System Unit Cost (\$ in Millions) | - | - | - | - | - | - |

## Description:

The A-10 High Resolution Display System is a technology enabler providing a platform for enhanced tactical applications which will function as a Primary Flight Display and provide Hi Resolution video from Advanced Targeting Pods. The A-10 HRDS is a true next-gen digital interface that will replace legacy analog flight instruments and provide higher resolution video signals to improve the pilot's ability to find, fix, track, target and engage ground targets and threats while reducing pilot workload.

Requirements: AF Form 1067 approved 11 May 2016 to equip 116 ARC aircraft; ACC A-10 HRDS 1067 in development.
Requirement and funding layout updated to reflect 218 TAI (Total Aircraft Inventory).
Milestone/Development Status
Development Complete

| Secondary Distribution |  | FY 2020 | FY 2021 | $\begin{gathered} \text { FY } 2022 \\ \text { Base } \end{gathered}$ | $\begin{gathered} \text { FY } 2022 \\ \text { OcO } \end{gathered}$ | $\begin{gathered} \text { FY } 2022 \\ \text { Total } \end{gathered}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| AF | Quantity | - | - | - | - | - |
|  | Total Obligation Authority | 5.763 | 0.500 | 20.173 | 0.000 | 20.173 |
| Total: <br> Secondary Distribution | Quantity | - | - | - | - | - |
|  | Total Obligation Authority | 5.763 | 0.500 | 20.173 | 0.000 | 20.173 |

## UNCLASSIFIED

| Exhibit P-3a, Individual Modification: PB 2022 Air Force |  |  |  |  | Date: May 2021 |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 2 |  | P-1 Line Item Number / Title: A01000 / A-10 |  |  | Modification Number / Title: 9834 / A-10 High Resolution Display System (HRDS) |  |
| ID Code (A=Service Ready, $\mathrm{B}=$ Not Service Ready) : B |  |  | MDAP/MAIS Code: |  |  |  |
| Models of Systems Affected: A-10C <br>  <br> Financial Plan | Modification Type: Capability Improvement |  |  | Related RDT\&E PEs: 0207131F |  |  |
|  | Prior Years | FY 2020 | FY 2021 | FY 2022 Base | FY 2022 OCO | FY 2022 Total |
|  | $\begin{gathered} \text { Qty (Each) I } \\ \text { Total Cost (\$ M) } \end{gathered}$ | $\begin{gathered} \text { Qty (Each) I } \\ \text { Total Cost (\$M) } \end{gathered}$ | Qty (Each) I Total Cost (\$ M) | $\begin{gathered} \text { Qty (Each) I } \\ \text { Total Cost (\$M) } \end{gathered}$ | $\begin{gathered} \text { Qty (Each) I } \\ \text { Total Cost (\$ M) } \end{gathered}$ | $\begin{gathered} \text { Qty (Each) I } \\ \text { Total Cost (\$M) } \end{gathered}$ |
| Procurement |  |  |  |  |  |  |
| Modification Item 1 of 1: Equipment (3) |  |  |  |  |  |  |
| B Kits |  |  |  |  |  |  |
| Recurring |  |  |  |  |  |  |
| Equipment:EQUIPMENT Group B (Active) | - 1- | - 1- | 1/0.263 | $79 / 19.149$ | - 1- | 79/19.149 |
| Subtotal: Recurring | - 1- | - 1. | - 10.263 | - /19.149 | - 1- | - /19.149 |
| Subtotal: Equipment (3) | - 1- | - 1 | - 10.263 | - /19.149 | - 1- | - /19.149 |
| Subtotal: Procurement, All Modification Items | - 1 - | - $/$ - | - 10.263 | - /19.149 | / - | - /19.149 |
| Support (All Modification Items) |  |  |  |  |  |  |
| PMA - Other Gov't Costs | - 1- | 1 - | - 10.077 | - 10.524 | - 1 - | 10.524 |
| OTHER GOVT | -1- | - 10.763 | - 10.160 | - 10.500 | - 1 - | - 10.500 |
| Data | -1- | - 15.000 | 1 - | - 1 - | - 1- | - 1 - |
| Subtotal: Support | - 1- | - 15.763 | - 10.237 | - 11.024 | - 1 | - 11.024 |
| Installation |  |  |  |  |  |  |
| Modification Item 1 of 1: Equipment (3) | - 1 - | - 1 - | 1. | - 1 - | 0/0.000 | $0 / 0.000$ |
| Subtotal: Installation | - 1- | 1 | - 1- | - 1 | 0/0.000 | 0/0.000 |
| Total |  |  |  |  |  |  |
| Total Cost (Procurement + Support + Installation) | 0.000 | 5.763 | 0.500 | 20.173 | 0.000 | 20.173 |

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| Exhibit P-3a, Individual Modification: PB 2022 Air Force |  |  |  |  | Date: May 2021 |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 2 | P-1 Line Item Number / Title: A01000 / A-10 |  |  |  | Modification Number / Title: 9836 / 3-Dimensional Audio (3DA) |  |
| ID Code (A=Service Ready, B=Not Service Ready) : B | MDAP/MAIS Code: |  |  |  |  |  |
| Resource Summary | Prior Years | FY 2020 | FY 2021 | FY 2022 Base | FY 2022 OCO | FY 2022 Total |
| Procurement Quantity (Units in Each) | - | - | - | - | - | - |
| Gross/Weapon System Cost (\$ in Millions) | 0.000 | 1.000 | 5.300 | 9.300 | 0.000 | 9.300 |
| Less PY Advance Procurement (\$ in Millions) | - | - | - | - | - | - |
| Net Procurement (P-1) (\$ in Millions) | 0.000 | 1.000 | 5.300 | 9.300 | 0.000 | 9.300 |
| Plus CY Advance Procurement (\$ in Millions) | - | - | - | - | - | - |
| Total Obligation Authority (\$ in Millions) | 0.000 | 1.000 | 5.300 | 9.300 | 0.000 | 9.300 |
| (The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.) |  |  |  |  |  |  |
| Initial Spares (\$ in Milions) | - | - | - | - | - | - |
| Gross/Weapon System Unit Cost (\$ in Millions) | - | - | - | - | - | - |

## Description:




 suite of capabilities already present in the aircraft.

169 kits required to equip 144 ACC aircraft with 25 kits as spares.
Requirement and funding layout updated to reflect 218 TAI (Total Aircraft Inventory).
Milestone/Development Status
Development Complete

| Secondary Distribution |  | FY 2020 | FY 2021 | $\begin{gathered} \text { FY } 2022 \\ \text { Base } \end{gathered}$ | $\begin{gathered} \text { FY } 2022 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \text { FY } 2022 \\ \text { Total } \end{gathered}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| AF | Quantity | - | - | - | - | - |
|  | Total Obligation Authority | 1.000 | 5.300 | 9.300 | - | 9.300 |
| Total: <br> Secondary Distribution | Quantity | - | - | - | - | - |
|  | Total Obligation Authority | 1.000 | 5.300 | 9.300 | 0.000 | 9.300 |

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| Exhibit P-3a, Individual Modification: PB 2022 Air Force |  |  |  |  | Date: May 2021 |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 2 |  | P-1 Line Item Number / Title: A01000 / A-10 |  |  | Modification Number / Title: 9836 / 3-Dimensional Audio (3DA) |  |
| ID Code (A=Service Ready, B=Not Service Ready) : B |  |  | MDAP/MAIS Code: |  |  |  |
| Models of Systems Affected: A-10C |  Modification Type: Capability Improvement  <br> Prior Years FY 2020 FY 2021 |  |  | Related RDT\&E PEs: 0207131F |  |  |
|  |  |  |  | FY 2022 Base | FY 2022 OCO | FY 2022 Total |
| Financial Plan | $\begin{gathered} \text { Qty (Each) I } \\ \text { Total Cost (\$ M) } \\ \hline \end{gathered}$ | $\begin{gathered} \text { Qty (Each) I } \\ \text { Total Cost (\$M) } \\ \hline \end{gathered}$ | $\begin{gathered} \text { Qty (Each) I } \\ \text { Total Cost }(\$ M) \end{gathered}$ | $\begin{gathered} \text { Qty (Each) I } \\ \text { Total Cost }(\$ M) \end{gathered}$ | $\begin{gathered} \text { Qty (Each)I } \\ \text { Total Cost (\$ M) } \\ \hline \end{gathered}$ | $\begin{gathered} \text { Qty (Each) I } \\ \text { Total Cost }(\$ M) \\ \hline \end{gathered}$ |
| Procurement |  |  |  |  |  |  |
| Modification Item 1 of 1: Equipment (4) |  |  |  |  |  |  |
| B Kits |  |  |  |  |  |  |
| Recurring |  |  |  |  |  |  |
| Equipment:EQUIPMENT Group B (Active) | - 1- | 10/0.750 | 51/3.500 | 108/5.438 | - 1- | 108/5.438 |
| Subtotal: Recurring | - 1- | - 10.750 | - 13.500 | - 15.438 | - / - | - 15.438 |
| Subtotal: Equipment (4) | - 1 | - 10.750 | - 13.500 | - $/ 5.438$ | - 1- | - 15.438 |
| Subtotal: Procurement, All Modification Items | - 1 - | - 10.750 | - 13.500 | - 15.438 | - 1 - | - 15.438 |
| Support (All Modification Items) |  |  |  |  |  |  |
| ICS-Labor | - 1- | - 1 - | - 10.040 | - 10.054 | - 1 - | - 10.054 |
| PMA - Other Gov't Costs | - 1- | - 10.250 | - 10.560 | - 1 - | - 1 - | - 1 - |
| Subtotal: Support | - 1. | - 10.250 | - 10.600 | - 10.054 | - 1- | - 10.054 |
| Installation |  |  |  |  |  |  |
| Modification Item 1 of 1: Equipment (4) | - 1 | - 1 - | 10/1.200 | $40 / 3.808$ | $1-$ | $40 / 3.808$ |
| Subtotal: Installation | - 1 - | 1 | 10/1.200 | 40/3.808 | - 1. | 40/3.808 |
| Total |  |  |  |  |  |  |
| Total Cost (Procurement + Support + Installation) | 0.000 | 1.000 | 5.300 | 9.300 | 0.000 | 9.300 |

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Exhibit P-40, Budget Line Item Justification: PB 2022 Air Force
Appropriation / Budget Activity / Budget Sub Activity:
3010F: Aircraft Procurement, Air Force / BA 05: Modification of Inservice Aircraft /
BSA 2: Tactical Aircraft

## P-1 Line Item Number / Title: <br> E011A0 / E-11 BACN/HAG

BSA 2: Tactical Aircraft

| ID Code (A=Service Ready, B=Not Service Ready): A |  |  | Program Elements for Code B Items: N/A |  |  |  |  | Other Related Program Elements: 0207610F |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Line Item MDAP/MAIS Code: N/A |  |  |  |  |  |  |  |  |  |  |  |  |
| Resource Summary | Prior <br> Years | FY 2020 | FY 2021 | $\begin{gathered} \text { FY } 2022 \\ \text { Base } \end{gathered}$ | $\begin{gathered} \text { FY } 2022 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \text { FY } 2022 \\ \text { Total } \end{gathered}$ | FY 2023 | FY 2024 | FY 2025 | FY 2026 | To Complete | Total |
| Procurement Quantity (Units in Each) | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Cost (\$ in Millions) | 0.000 | 68.027 | 29.645 | 68.955 | - | 68.955 | - | - | - | - | - | - |
| Less PY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Net Procurement (P-1) (\$ in Millions) | 0.000 | 68.027 | 29.645 | 68.955 | - | 68.955 | - | - | - | - | - | - |
| Plus CY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Total Obligation Authority (\$ in Millions) | 0.000 | 68.027 | 29.645 | 68.955 | - | 68.955 | - | - | - | - | - | - |
| (The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.) |  |  |  |  |  |  |  |  |  |  |  |  |
| Initial Spares (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Flyaway Unit Cost (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Unit Cost (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |

## Description:



 (STC), and Electronic Flight Bags (EFB).

Funding for this exhibit contained in PE 0207610F and PE 0207238F.
BACN green platform procurement and integration activities support out of P-1 Line Item \#99 E011A0/E-11A BACN in PE: 0207238F.
 defense mission, domestic emergency responses, and providing military support to civilian authorities.
 days.

Exhibit P-40, Budget Line Item Justification: PB 2022 Air Force
Appropriation / Budget Activity / Budget Sub Activity:
3010F: Aircraft Procurement, Air Force / BA 05: Modification of Inservice Aircraft /
BSA 2: Tactical Aircraft

## P-1 Line Item Number / Title: <br> E011A0 / E-11 BACN/HAG


*Title represents 1) the Number / Title for Items; 2) the Number / Title [DODIC] for Ammunition; and/or 3) the Number / Title (Modification Type) for Modifications.
Note: Totals in this Exhibit P-40 set may not be exact or sum exactly due to rounding.

## Justification:


 future emerging technologies, such as High Capacity Backbone (HCB), Supplemental Type Certs (STC), and Protected Tactical Waveform (PTW).

Funding will be used to address Diminishing Manufacturing Sources (DMS) Issues. This may include modifications required for enhanced capability and improvements to system reliability and maintainability. Safety of flight considerations, including but not limited to, performance, aircraft structural integrity, availability, and continuity of service requirements for long range reference, local area reference, and landing/ terminal reference.

This effort includes Military GPS, advanced navigation systems and any additional mandates levied on the BACN system and platforms. Funding will also be used for fulfillment of requirements in support of alteration, conversion, modernization, and transition to a normalized Program of Record.

Transition to BACN Program of Record/normalized program requires additional BACN aircraft platforms to meet the service retained capability requirements and those of Combatant Commanders as needs emerge in multiple AOR's. This will include, but not be limited to, standardization of avionics baseline and the production of all Supplemental Type Certificates of the most up to date configurations of the fleet.

In order to fulfill a worldwide rapidly deployable requirement, the E-11As require Rapidly Deployable Aircraft Kits. These kits will include the minimum number of maintenance equipment and spares required for the aircraft to operate anywhere around the globe for a minimum of 30 days.

Exhibit P-3a, Individual Modification: PB 2022 Air Force Appropriation / Budget Activity / Budget Sub Activity: 3010F/05/2
ID Code (A=Service Ready, B=Not Service Ready) : A

| Resource Summary | Prior Years | FY 2020 | FY 2021 | FY 2022 Base | FY 2022 OCO | FY 2022 Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Procurement Quantity (Units in Each) | - | - | - | - | - | - |
| Gross/Weapon System Cost (\$ in Millions) | 0.000 | 68.027 | 29.645 | 68.955 | 0.000 | 68.955 |
| Less PY Advance Procurement (\$ in Millions) | - | - | - | - | - | - |
| Net Procurement (P-1) (\$ in Millions) | 0.000 | 68.027 | 29.645 | 68.955 | 0.000 | 68.955 |
| Plus CY Advance Procurement (\$ in Millions) | - | - | - | - | - | - |
| Total Obligation Authority (\$ in Millions) | 0.000 | 68.027 | 29.645 | 68.955 | 0.000 | 68.955 |
| (The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.) |  |  |  |  |  |  |
| Initial Spares (\$ in Millions) | - | - | - | - | - | - |
| Gross/Weapon System Unit Cost (\$ in Millions) | - | - | - | - | - | - |

## Description:

Battlefield Airborne Communication Node (BACN) provides a Combatant Commander (CCDR) flexible, long-endurance, responsive airborne communications capability. BACN provides a dedicated airborne capability to conduct voice bridging/translation, Tactical Data Link (TDL) gateway, emerging capabilities, and TDL relay functions for beyond-line-of-sight (BLOS) data communications.

 unique Platform support equipment required for transition from a JUON capability stationed OCONUS to a BACN Program of Record permanent base.

Milestone/Development Status
BACN includes the payload, its host platforms, and associated ground systems. The program is currently in the Operations and Support (O\&S) Phase of the Life Cycle Management System. As requirements emerge for new hardware and software capabilities that improve system performance such as, external time references, interoperability and open mission system technologies. BACN will host the integration of these and future communication technologies. Funding will be used to address Diminishing Manufacturing Sources (DMS) Issues. This may include modifications required for enhanced capability and improvements to system reliability and maintainability. Safety of flight considerations, including but not limited to, performance, aircraft structural integrity, availability, and continuity of service requirements for long range reference, local area reference, and landing/terminal reference. This effort includes Military GPS, advanced navigation systems and any additional mandates levied on the BACN system and platforms. Funding will also be used for fulfillment of requirements in support of alteration, conversion, modernization, and transition to a normalized Program of Record. Transition to BACN Program of Record will require additional BACN aircraft platforms to meet the service retained capability requirements of Combatant Commanders needs emerge in multiple AOR's. This will include, but not be limited to, standardization of avionics baseline and the production of all Supplemental Type Certificates of the most up to date configurations of the fleet.

| Exhibit P-3a, Individual Modification: PB 2022 Air Force |  |  |  |  | Date: May 2021 |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 2 |  | P-1 Line Item Number / Title: E011A0 / E-11 BACN/HAG |  |  | Modification Number / Title: 1 / E-11 Mods |  |
| ID Code (A=Service Ready, B=Not Service Ready) : A |  |  | MDAP/MAIS Code: |  |  |  |
| Models of Systems Affected: E-11A |  Modification Type: Other  <br> Prior Years FY 2020  |  | Related RDT\&E PEs: 0207610F |  |  |  |
|  |  |  | FY 2021 | FY 2022 Base | FY 2022 OCO | FY 2022 Total |
| Financial Plan | $\begin{gathered} \text { Qty (Each) I } \\ \text { Total Cost (\$ M) } \end{gathered}$ | $\begin{gathered} \text { Qty (Each) I } \\ \text { Total Cost (\$M) } \end{gathered}$ | $\begin{gathered} \text { Qty (Each) I } \\ \text { Total Cost (\$ M) } \end{gathered}$ | $\begin{gathered} \text { Qty (Each) I } \\ \text { Total Cost (\$M) } \end{gathered}$ | $\begin{gathered} \text { Qty (Each) I } \\ \text { Total Cost (\$ M) } \end{gathered}$ | $\begin{gathered} \text { Qty (Each) I } \\ \text { Total Cost (\$M) } \end{gathered}$ |
| Procurement |  |  |  |  |  |  |
| Modification Item 1 of 6: BACN Aircraft INSTALL KITS |  |  |  |  |  |  |
| A Kits |  |  |  |  |  |  |
| Recurring |  |  |  |  |  |  |
| BACN Aircraft INSTALL KITS:INSTALL KITS Group A (Active) | - 1- | 1 - | 1 - | 1/43.645 | 1. | 1/43.645 |
| Subtotal: Recurring | - 1- | - 1- | 1 - | - /43.645 | - 1 - | - /43.645 |
| Subtotal: BACN Aircraft INSTALL KITS | - 1- | - 1- | - 1- | - /43.645 | - 1- | - /43.645 |
| Modification Item 2 of 6: BACN Payload and Platform Support Equipment |  |  |  |  |  |  |
| A Kits |  |  |  |  |  |  |
| Recurring |  |  |  |  |  |  |
| BACN Payload and Platform Support Equipment:INSTALL KITS Group A (Active) | - 1- | 1/10.000 | 1/10.591 | 2/15.468 | - 1- | 2/15.468 |
| Subtotal: Recurring | - 1- | - /10.000 | - /10.591 | - /15.468 | - 1- | 115.468 |
| Subtotal: BACN Payload and Platform Support Equipment | 1 | - /10.000 | - /10.591 | - /15.468 | - | - /15.468 |
| Modification Item 3 of 6: E-11A Survivability |  |  |  |  |  |  |
| A Kits |  |  |  |  |  |  |
| Recurring |  |  |  |  |  |  |
| E-11A Survivability:INSTALL KITS Group A (Active) | - 1 - | 4/13.903 | - 1- | - 1- | - 1- | - 1 - |
| Subtotal: Recurring | - 1 | - /13.903 | - 1- | - 1- | - 1- | -1- |
| Subtotal: E-11A Survivability | - 1 - | - /13.903 | - 1- | - 1 - | - 1 - | - 1- |
| Modification Item 4 of 6: Engines |  |  |  |  |  |  |
| A Kits |  |  |  |  |  |  |
| Recurring |  |  |  |  |  |  |
| Engines:INSTALL KITS Group A (Active) | - 1 - | 4/40.194 | 2/19.054 | - 1- | - 1- | - 1- |
| Subtotal: Recurring | - 1 - | - /40.194 | - /19.054 | - 1- | - 1- | - 1 - |
| Subtotal: Engines | - 1 - | - /40.194 | - /19.054 | - 1 - | - 1 - | - 1- |
| Modification Item 5 of 6: Low Cost Mods |  |  |  |  |  |  |
| A Kits |  |  |  |  |  |  |
| Recurring |  |  |  |  |  |  |
| Low Cost Mods:INSTALL KITS Group A (Active) | - 1- | 1/1.463 | - 1- | 1/1.930 | - 1- | 1/1.930 |

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| Exhibit P-3a, Individual Modification: PB 2022 Air Force |  |  | Date: May 2021 |
| :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3010F/05/2 | P-1 Line Item Number / Title: E011A0 / E-11 BACN/HAG |  | Modification Number / Title: 1 / E-11 Mods |
| ID Code (A=Service Ready, $\mathrm{B}=$ Not Service Ready) : A |  | MDAP/MAIS Code: |  |
| Modification Item 2 of 6: BACN Payload and Platform Support Equipment |  |  |  |
| Manufacturer Information |  |  |  |
| Manufacturer Name: Northrop Grumman |  | Manufacturer Location: Various |  |
| Administrative Leadtime (in Months): 3 |  | Production Leadtime (in Months): 3 |  |
| Dates | FY 2020 | FY 2021 | FY 2022 |
| Contract Dates | Jan 2020 | May 2021 | Jan 2022 |
| Delivery Dates | Apr 2020 | Aug 2021 | Apr 2022 |
|  |  |  |  |
| Installation Information |  |  |  |
| Method of Implementation (Organic): Org/Intermediate |  | Installation Quantity: 10 |  |

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Appropriation / Budget Activity / Budget Sub Activity:
3010F: Aircraft Procurement, Air Force / BA 05: Modification of Inservice Aircraft /
BSA 2: Tactical Aircraft

## P-1 Line Item Number / Title: <br> F01500 / F-15

BSA 2: Tactical Aircraft

| ID Code (A=Service Ready, B=Not Service Ready) |  |  | Program Elements for Code B Items: 0207130F, 0207134F, 0207445F, 0809731F |  |  |  |  | Other Related Program Elements: 0207130F, 0207134F |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Line Item MDAP/MAIS Code: N/A |  |  |  |  |  |  |  |  |  |  |  |  |
| Resource Summary | Prior <br> Years | FY 2020 | FY 2021 | FY 2022 Base | $\begin{gathered} \text { FY } 2022 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \text { FY } 2022 \\ \text { Total } \end{gathered}$ | FY 2023 | FY 2024 | FY 2025 | FY 2026 | To Complete | Total |
| Procurement Quantity (Units in Each) | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Cost (\$ in Millions) | 3,805.942 | 441.091 | 203.910 | 234.340 | - | 234.340 | - | - | - | - | - | - |
| Less PY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Net Procurement (P-1) (\$ in Millions) | 3,805.942 | 441.091 | 203.910 | 234.340 | - | 234.340 | - | - | - | - | - | - |
| Plus CY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Total Obligation Authority (\$ in Millions) | 3,805.942 | 441.091 | 203.910 | 234.340 | - | 234.340 | - | - | - | - | - | - |
| (The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.) |  |  |  |  |  |  |  |  |  |  |  |  |
| Initial Spares (\$ in Millions) | - | 34.155 | 16.738 | 11.240 | - | 11.240 | - | - | - | - | - | - |
| Flyaway Unit Cost (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Unit Cost (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |

## Description:

This line item funds modifications to the F-15 aircraft. The F-15C/D is a twin engine ( $\mathrm{F}-15 \mathrm{C}$ single seat; $\mathrm{F}-15 \mathrm{D}$ dual seat) supersonic, all-weather, day/night, air-superiority fighter. The F -15E is a twin engine, two seat, supersonic dual-role, day/night, all-weather, deep interdiction fighter with multi-role air-to-air capabilities. The overall goals of the budgeted modifications are to improve operational capability, reliability and maintainability, and flight safety. The specific modifications budgeted and programmed are below.

In accordance with Section 1815 of the FY 2008 National Defense Authorization Act (P.L. 110-181), this item is necessary for use by the active and reserve components of the Armed Forces for homeland defense missions, domestic emergency responses, and providing military support to civil authorities.

Reform Initiative Defund F-15C Multifunctional Information Distribution System - Joint Tactical Radio System (MIDS-JTRS) saved \$18.6M in FY22. Defund F-15C MIDS-JTRS Description: MIDS-JTRS integrates and installs a new Link 16 system compliant with an National Security Agency crypto modernization mandate (January 2022) and an Federal Aviation Administration mandate (2025) on frequency remapping. Of the 234 planned F-15C installs, modification funding cuts due to the FY26 fleet divestment reduced that number to 101 installs by 4QFY23, with 41 installs complete by the January 2022 mandate.

The FY2022 funding request was reduced by $\$ 36.320$ million to account for the availability of prior year execution balances.
Funding for this exhibit is contained in PEs 0207130F, 0207134F, 0207445F, and 0809731F.

| Secondary Distribution |  | FY 2020 | FY 2021 | $\begin{gathered} \text { FY } 2022 \\ \text { Base } \end{gathered}$ | $\begin{gathered} \text { FY } 2022 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \text { FY } 2022 \\ \text { Total } \end{gathered}$ | FY 2023 | FY 2024 | FY 2025 | FY 2026 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| AF | Quantity | - | - | - | - | - | - | - | - | - |
|  | Total Obligation Authority | 415.617 | 200.920 | 227.940 | - | 227.940 | - | - | - | - |
| AFNG | Quantity | - | - | - | - | - | - | - | - | - |
|  | Total Obligation Authority | 25.474 | 2.990 | 6.400 | - | 6.400 | - | - | - | - |
| Total: | Quantity | - | - | - | - | - | - | - | - | - |

UNCLASSIFIED

| Exhibit P-40, Budget Line Item Justification: PB 2022 Air Force |  |  |  |  |  |  |  | Date: May 2021 |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: <br> 3010F: Aircraft Procurement, Air Force / BA 05: Modification of Inservice Aircraft / <br> BSA 2: Tactical Aircraft |  |  |  |  | P-1 Line Item Number / Title: F01500 / F-15 |  |  |  |  |  |
| ID Code (A=Service Ready, B=Not Service Ready): |  | Program Elements for Code B Items: 0207130F, 0207134F, 0207445F, 0809731F |  |  |  |  | Other Related Program Elements: 0207130F, 0207134F |  |  |  |
| Line Item MDAP/MAIS Code: N/A |  |  |  |  |  |  |  |  |  |  |
| Second | Distribution | FY 2020 | FY 2021 | $\begin{gathered} \text { FY } 2022 \\ \text { Base } \end{gathered}$ | $\begin{aligned} & \text { FY } 2022 \\ & \text { OCO } \end{aligned}$ | $\begin{gathered} \text { FY } 2022 \\ \text { Total } \end{gathered}$ | FY 2023 | FY 2024 | FY 2025 | FY 2026 |
| Secondary Distribution | Total Obligation Authority | 441.091 | 203.910 | 234.340 | - | 234.340 | - | - | - | - |

Exhibit P-40, Budget Line Item Justification: PB 2022 Air Force
Date: May 2021

| Appropriation / Budget Activity / Budget Sub Activity: |
| :--- |
| 3010F: Aircraft Procurement, Air Force / BA 05: Modification of Inservice Aircraft / |
| BSA 2: Tactical Aircraft |
| D |

## P-1 Line Item Number / Title: <br> F01500 / F-15

| ID Code (A=Service Ready, B=Not Service Ready): |  |  | Program Elements for Code B Items: 0207130F, 0207134F, 0207445F, 0809731F |  |  |  |  | Other Related Program Elements: 0207130F, 0207134F |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Line Item MDAP/MAIS Code: N/A |  |  |  |  |  |  |  |  |  |  |
| Exhibits Schedule |  |  |  |  | Prior Years | FY 2020 | FY 2021 | FY 2022 Base | FY 2022 OCO | FY 2022 Total |
| Exhibit Type | Title* | Subexhibits | $\begin{array}{\|l\|l\|} \hline \text { ID } \\ \text { CD } \end{array}$ | MDAP/ MAIS Code | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) |
| P-40a*** | 1203 / F-15 C/D Secondary Power System (SPS) (Reliability \& Maintainability) |  |  |  | - 17.492 | 1 | 1 | 1 | - 1 - | - 1 |
| P-40a*** | 1205 / :Advanced Display Core Processor, ADCP II-C (Reliability \& Maintainability) |  |  |  | - / 107.349 | - 172.094 | - 1 | - 10.000 | - 1 - | - 10.000 |
| P-40a** | 1206 / F-15C Infrared Search and Track (IRST) (Capability Improvement) |  |  |  | - / 125.545 | - 10.000 | - 10.000 | - 10.000 | - 1 - | - 10.000 |
| P-40a*** | 1209 / F-15 C/D Flight Data Recorder (FDR) (Capability Improvement) |  |  |  | - 124.828 | 1 | 1 | - 1 | - 1 | - 1 |
| P-40a*** | 1210 / F-15E Flight Data Recorder (FDR) (Capability Improvement) |  |  |  | - /142.473 | 1 | 1 | 1 | - 1 | - 1 |
| P-40a*** | 6158 / F-15C/D APG-63(V)3 radar upgrade (Capability Improvement) |  |  |  | - / 1,341.961 | - / 14.678 | 1 | 1 | 1 | - 1 |
| P-40a** | 8353/F-15E -JOINT HELMET-MOUNTED CUEING SYSTEM (Reliability \& Maintainability) |  |  |  | - / 104.524 | 1 | - | - 1 | - 1 - | - 1 |
| P-40a*** | 8662 I AETC MTD UPGRADES-FIELD TRAINING DETACHMENTS (Service Life Extension) |  |  |  | - 16.796 | - / 1.147 | - 10.103 | - 10.181 | -1 | - 10.181 |
| P-40a*** | 8754 / F-15C/D IFF Mode 5 (Reliability \& Maintainability) |  |  |  | - 124.909 | - /26.624 | - 1 - | 1 | -1 | - 1 |
| P-40a*** | 8755 / F-15E IFF MODE 5 (Reliability \& Maintainability) |  |  |  | 153.711 | - 17.627 | - 12.080 | - 10.177 | - 1 | - 10.177 |
| P-40a** | 8756 / F-15C/D Link 16 Cryptographic Modernization (Capability Improvement) |  |  |  | - 10.002 | 1 - | - 1 | - 1 | - 1 - | -1 |
| P-40a*** | 8794 / F-15C/D Beyond Line Of Sight Communications (Capability Improvement) |  |  |  | - / 54.428 | - 1 - | 1 | 1 | 1 - | 1 |
| P-40a*** | 8797 / F-15C Passive Attack Sensor System (Capability Improvement) |  |  |  | - 128.577 | - 1 - | - 1 - | - 1 - | - 1 - | - |
| P-40a*** | 8798 / 5th to 4th Gen Gateway (Capability Improvement) |  |  |  | - 13.698 | - 1 - | - 1 - | - 1 - | - 1 - | - 1 - |
| P-40a*** | 8799 / F-15C MIDS JTRS (Capability Improvement) |  |  |  | - 126.700 | - / 11.640 | - 1 - | - 1 - | - 1 - | - 1 - |
| P-40a*** | 8806 / F-15 C/D Cabin Pressure Indicator (Safety) |  |  |  | - 12.773 | 1 | - 1 - | - 1 - | 1 | - 1 - |
| P-40a*** | 8807 / F-15 E Cabin Pressure Indicator (Safety) |  |  |  | - /15.893 | 1 - | 1 | 1 - | - 1 - | - 1 - |
| P-40a*** | 8810 / F-15E APG-82(V)1 Common Config (Capability Improvement) |  |  |  | - / 35.097 | - / 14.706 | - / 12.000 | - 14.954 | -1 | - 14.954 |
| P-40a*** | 8811 / F-15E SATCOM UON (Other) |  |  |  | - / 17.700 | 1 | - 1 | 1 | 1 | - 1 |
| P-40a*** | 8813/F-15E B61 A/C Umbilical (Capability Improvement) |  |  |  | - 10.542 | - 1 - | - 1 - | 1 | 1 | - 1 - |
| P-40a*** | 8815/ F-15C Simulator Upgrade (Capability Improvement) |  |  |  | - / 15.000 | - 1 - | - 1 - | 1 | 1 | - 1 - |
| P-40a*** | 8816 / F-15C/D APG-63(V)3 Common Config (Reliability \& Maintainability) |  |  |  | - 14.326 | - 10.971 | - 10.338 | - 10.896 | - 1 - | - 10.896 |
| P-40a*** | 99999U / LOW COST RETROFIT MODS (Service Life Extension) |  |  |  | - 17.266 | - 10.001 | - 10.001 | - 1 - | 1 | - 1 |
| P-40a*** | 99999X / Low Cost Modifications (Capability Improvement) |  |  |  | - 15.789 | - 10.001 | - 1 - | - 10.001 | 1 | - 10.001 |
| P-3a | 1202 / F-15E Radar Modernization Program APG-82(V)1 (Capability Improvement) |  | A |  | - / 1,504.840 | - / 155.582 | - / 110.088 | - / 54.197 | - 10.000 | - / 54.197 |
| P-3a | 1 / Advanced Display Core Processor, ADCP II-E (Reliability \& Maintainability) |  | B |  | - / 96.777 | - / 49.187 | - / 43.956 | - 178.129 | - 10.000 | - 178.129 |

Appropriation / Budget Activity / Budget Sub Activity:
3010F: Aircraft Procurement, Air Force / BA 05: Modification of Inservice Aircraft /

## P-1 Line Item Number / Title: <br> F01500 / F-15

BSA 2: Tactical Aircraft
Program Elements for Code B Items: 0207130F, 0207134F, $\quad$ Other Related Program Elements: 0207130F, 0207134F 0207445F, 0809731F
ID Code (A=Service Ready, B=Not Service Ready):
Line Item MDAP/MAIS Code: N/A

| Exhibits Schedule |  |  |  |  | Prior Years | FY 2020 | FY 2021 | FY 2022 Base | FY 2022 OCO | FY 2022 Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $\begin{aligned} & \text { Exhibit } \\ & \text { Type } \end{aligned}$ | Title* | Subexhibits | $\begin{aligned} & \text { ID } \\ & \text { CD } \end{aligned}$ | MDAP/ MAIS Code | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) |
| P-3a | 8800 / F-15E MIDS JTRS (Capability Improvement) |  | B |  | - $/ 34.023$ | - 134.576 | - 129.011 | - / 38.588 | - 10.000 | - 138.588 |
| P-3a | 8801 / F-15 C/D SLEP Longerons (Service Life Extension) |  | B |  | - / 12.923 | - 121.627 | - 16.333 | - 125.923 | - 10.000 | - 125.923 |
| P-3a | 8804 / F-15 F-15 E/MUOS (Capability Improvement) |  | B |  | - 1 - | - 10.630 | - 10.000 | - 18.667 | - 10.000 | - 18.667 |
| P-3a | 8817 I F-15E DTM II (Reliability \& Maintainability) |  | B |  | - 1 - | - 10.000 | - 10.000 | - 17.527 | - 10.000 | - 17.527 |
| P-3a | 8820 / F-15E Digital Color Display (Capability Improvement) |  | A |  | - 1 - | - 10.000 | - 10.000 | - / 15.100 | - 10.000 | - /15.100 |
| P-40 | Total Gross/Weapon System Cost |  |  |  | 13,805.942 | - 1441.091 | - 1203.910 | - 1234.340 | 1 | 1234.340 |

*** Although this is an Exhibit P-40a item, the actual exhibit is not included since all of the required information for this item is already being shown here.
*Title represents 1) the Number / Title for Items; 2) the Number / Title [DODIC] for Ammunition; and/or 3) the Number / Title (Modification Type) for Modifications
Note: Totals in this Exhibit P-40 set may not be exact or sum exactly due to rounding.

## Justification:

This program, P-3A Mod 8804, F-15 F-15 E/MUOS, is a new start
This program, P-3A Mod 8817, F-15E DTM II, is a new start.
This program, P-3A Mod 8820, F-15E Digital Color Display, is a new start.

| Exhibit P-3a, Individual Modification: PB 2022 Air Force |  |  |  |  | Date: May 2021 |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 2 | P-1 Line Item Number / Title:F01500 / F-15 |  |  |  | Modification Number / Title: 1202 / F-15E Radar Modernization Program APG-82(V)1 |  |
| ID Code (A=Service Ready, $\mathrm{B}=$ Not Service Ready) : A | MDAP/MAIS Code: |  |  |  |  |  |
| Resource Summary | Prior Years | FY 2020 | FY 2021 | FY 2022 Base | FY 2022 OCO | FY 2022 Total |
| Procurement Quantity (Units in Each) | - | - | - | - | - | - |
| Gross/Weapon System Cost (\$ in Millions) | 1,504.840 | 155.582 | 110.088 | 54.197 | 0.000 | 54.197 |
| Less PY Advance Procurement (\$ in Millions) | - | - | - | - | - | - |
| Net Procurement (P-1) (\$ in Millions) | 1,504.840 | 155.582 | 110.088 | 54.197 | 0.000 | 54.197 |
| Plus CY Advance Procurement (\$ in Millions) | - | - | - | - | - | - |
| Total Obligation Authority (\$ in Millions) | 1,504.840 | 155.582 | 110.088 | 54.197 | 0.000 | 54.197 |
| (The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.) |  |  |  |  |  |  |
| Initial Spares (\$ in Millions) | 9.994 | 7.771 | 6.218 | 5.350 | - | 5.350 |
| Gross/Weapon System Unit Cost (\$ in Millions) | - | - | - | - | - | - |

## Description:




 and the program had already entered MS C/LRIP.

 included in Support Equipment. Other Government Costs include; DMS, NRE, contractor installs, PDM installs, and ICS.

Milestone/Development Status
Development is complete.

| Secondary Distribution |  | FY 2020 | FY 2021 | $\begin{gathered} \text { FY } 2022 \\ \text { Base } \end{gathered}$ | $\begin{gathered} \text { FY } 2022 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \text { FY } 2022 \\ \text { Total } \end{gathered}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| AF | Quantity | - | - | - | - | - |
|  | Total Obligation Authority | 155.582 | 110.088 | 54.197 | - | 54.197 |
| Total: <br> Secondary Distribution | Quantity | - | - | - | - | - |
|  | Total Obligation Authority | 155.582 | 110.088 | 54.197 | 0.000 | 54.197 |

## UNCLASSIFIED

| Exhibit P-3a, Individual Modification: PB 2022 Air Force |  |  |  |  | Date: May 2021 |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 2 |  | P-1 Line Item Number / Title: F01500 / F-15 |  |  | Modification Number / Title: 1202 / F-15E Radar Modernization Program APG-82(V)1 |  |
| ID Code (A=Service Ready, B=Not Service Ready) : A |  |  | MDAP/MAIS Code: |  |  |  |
| Models of Systems Affected: F-15E | Modification Type: Capability Improvement |  |  | Related RDT\&E PEs: 0207134F |  |  |
|  | Prior Years | FY 2020 | FY 2021 | FY 2022 Base | FY 2022 OCO | FY 2022 Total |
| Financial Plan | $\begin{gathered} \text { Qty (Each) I } \\ \text { Total Cost (\$ M) } \\ \hline \end{gathered}$ | $\begin{gathered} \text { Oty (Each) I } \\ \text { Total Cost (\$ M) } \end{gathered}$ | $\begin{gathered} \text { Qty (Each) I } \\ \text { Total Cost (\$ M) } \\ \hline \end{gathered}$ | $\begin{gathered} \text { Qty (Each) I } \\ \text { Total Cost }(\$ M) \\ \hline \end{gathered}$ | $\begin{gathered} \text { Qty (Each) I } \\ \text { Total Cost }(\$ M) \\ \hline \end{gathered}$ | $\begin{gathered} \text { Qty (Each) I } \\ \text { Total Cost }(\$ M) \\ \hline \end{gathered}$ |
| Procurement |  |  |  |  |  |  |
| Modification Item 1 of 1: APG-82(v)1 |  |  |  |  |  |  |
| A Kits |  |  |  |  |  |  |
| Recurring |  |  |  |  |  |  |
| APG-82(v)1:INSTALL KITS Group A (Active) | $187 / 269.350$ | 16/24.753 | 15/19.489 | - 1- | - 1 - | - 1 - |
| Subtotal: Recurring | - /269.350 | - 124.753 | - /19.489 | - 1- | -1. | - 1. |
| B Kits |  |  |  |  |  |  |
| Recurring |  |  |  |  |  |  |
| APG-82(v) : EQUIPMENT Group B (Active) | $187 / 824.109$ | 16/86.516 | 15/67.450 | - 1- | - 1- | - 1 - |
| Subtotal: Recurring | - 1824.109 | - 186.516 | - 167.450 | 1 | -1- | 1 - |
| Subtotal: APG-82(v)1 | - /1,093.459 | - /111.269 | - 186.939 | - / - | / - | 1 - |
| Subtotal: Procurement, All Modification Items | - 11,093.459 | - /111.269 | - 186.939 | - 1 - | - 1 - | - 1. |
| Support (All Modification Items) |  |  |  |  |  |  |
| GROUP B: TOTAL NONRECURRING | - /139.035 | - 15.100 | - 1. | - 1 - | 1 - | - 1- |
| OTHER GOVT | - 122.186 | - 1- | - 1- | - 1- | 1 - | 1. |
| Change Orders | - 197.421 | - 1- | - 1- | - 17.897 | -1- | - 17.897 |
| Data | - 113.295 | - 1- | - 1 - | - 1 - | - 1 - | - 1 - |
| Type 1 Training | - 10.501 | - 1. | - 1. | 1. | - 1 - | - 1- |
| SUPPORT-EQUIP | - /13.460 | - 11.020 | - 1 - | - 1 - | -1- | - 1 - |
| ICS-Labor | - 145.066 | /12.793 | - 14.200 | - 120.000 | 1 - | - 120.000 |
| PMA - Other Gov't Costs | - 120.115 | - 13.000 | - 11.165 | - 13.000 | -1- | - 13.000 |
| Subtotal: Support | - /351.079 | - 121.913 | - 15.365 | - 130.897 | - 1- | - /30.897 |
| Installation |  |  |  |  |  |  |
| Modification Item 1 of 1: APG-82(v)1 | $110 / 60.302$ | $24 / 22.400$ | 24/17.784 | 24/23.300 | 1 - | 24/23.300 |
| Subtotal: Installation | 110/60.302 | 24/22.400 | 24/17.784 | 24/23.300 | - 1- | 24/23.300 |
| Total |  |  |  |  |  |  |
| Total Cost (Procurement + Support + Installation) | 1,504.840 | 155.582 | 110.088 | 54.197 | 0.000 | 54.197 |

## UNCLASSIFIED



| Exhibit P-3a, Individual Modification: PB 2022 Air Force |  |  |  |  | Date: May 2021 |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 2 | P-1 Line Item Number / Title:F01500 / F-15 |  |  |  | Modification Number / Title: <br> 1 / Advanced Display Core Processor, ADCP II-E |  |
| ID Code (A=Service Ready, $\mathrm{B}=$ Not Service Ready) : B | MDAP/MAIS Code: |  |  |  |  |  |
| Resource Summary | Prior Years | FY 2020 | FY 2021 | FY 2022 Base | FY 2022 OCO | FY 2022 Total |
| Procurement Quantity (Units in Each) | - | - | - | - | - | - |
| Gross/Weapon System Cost (\$ in Millions) | 96.777 | 49.187 | 43.956 | 78.129 | 0.000 | 78.129 |
| Less PY Advance Procurement (\$ in Millions) | - | - | - | - | - | - |
| Net Procurement (P-1) (\$ in Millions) | 96.777 | 49.187 | 43.956 | 78.129 | 0.000 | 78.129 |
| Plus CY Advance Procurement (\$ in Millions) | - | - | - | - | - | - |
| Total Obligation Authority (\$ in Millions) | 96.777 | 49.187 | 43.956 | 78.129 | 0.000 | 78.129 |
| (The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.) |  |  |  |  |  |  |
| Initial Spares (\$ in Millions) | 6.720 | 6.400 | 6.600 | 3.400 | - | 3.400 |
| Gross/Weapon System Unit Cost (\$ in Millions) | - | - | - | - | - | - |

## Description:



 simultaneity, and increased track data. The ADCP II is required to meet all APG-82(V)1 key system attributes.

Requirements: AF Form 1067 approved July 2012
DT\&E 4Q2016; FDE 4Q2017; MS C: 4Q2017; FRPD 2Q2021
 buys, buys to protect production schedule, and minor engineering efforts for redesign.

DMSMS costs are included in Group B recurring; SE/PM costs are include in the Group B recurring; and Depot Costs are included in the Other Govt.
This program has associated Research Development Test and Evaluation (RDT\&E) funding in PE 0207134F.
Milestone/Development Status
Critical Design Review (CDR) completed 4QFY2013, Milestone B completed 1QFY2014. Milestone C completed 4QFY2017, Full Rate Production Decision (FRPD) completed 2QFY2021.

| Secondary Distribution |  | FY 2020 | FY 2021 | $\begin{gathered} \text { FY } 2022 \\ \text { Base } \end{gathered}$ | $\begin{gathered} \text { FY } 2022 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \text { FY } 2022 \\ \text { Total } \end{gathered}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| AF | Quantity | - | - | - | - | - |
|  | Total Obligation Authority | 49.187 | 43.956 | 78.129 | - | 78.129 |
| Total: <br> Secondary Distribution | Quantity | - | - | - | - | - |
|  | Total Obligation Authority | 49.187 | 43.956 | 78.129 | 0.000 | 78.129 |

## UNCLASSIFIED

| Exhibit P-3a, Individual Modification: PB 2022 Air Force |  |  |  |  | Date: May 2021 |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 2 |  | P-1 Line Item Number / Title: F01500 / F-15 |  |  | Modification Number / Title: <br> 1 I Advanced Display Core Processor, ADCP II-E |  |
| ID Code (A=Service Ready, B=Not Service Ready) : B |  |  | MDAP/MAIS Code: |  |  |  |
| Models of Systems Affected: F-15E |  | Modification Type: Reliability \& Maintainability |  | Related RDT\&E PEs: 0207134F |  |  |
|  | Prior Years | FY 2020 | FY 2021 | FY 2022 Base | FY 2022 OCO | FY 2022 Total |
| Financial Plan | $\begin{gathered} \text { Qty (Each) I } \\ \text { Total Cost (\$ M) } \end{gathered}$ | Qty (Each) I Total Cost (\$ M) | Qty (Each) I Total Cost (\$ M) | Qty (Each) I Total Cost (\$ M) | Qty (Each) I Total Cost (\$ M) | Qty (Each) I Total Cost (\$ M) |
| RDT\&E PE\# |  |  |  |  |  |  |
| 0207134F | - 1196.483 | - 1- | - 1 - | - 1 - | 1 - | 1 - |
| Procurement |  |  |  |  |  |  |
| Modification Item 1 of 1: ADCP II E |  |  |  |  |  |  |
| A Kits |  |  |  |  |  |  |
| Recurring |  |  |  |  |  |  |
| ADCP II E:INSTALL KITS Group A (Active) | 6910.888 | $36 / 0.484$ | 53/0.733 | $60 / 0.840$ | - 1- | 6010.840 |
| Subtotal: Recurring | - 10.888 | - 10.484 | - 10.733 | - 10.840 | - / - | - 10.840 |
| B Kits |  |  |  |  |  |  |
| Recurring |  |  |  |  |  |  |
| ADCP II E:EQUIPMENT Group B (Active) | $69 / 70.048$ | 36/35.255 | 53/40.741 | $60 / 48.502$ | -1- | 60/48.502 |
| Subtotal: Recurring | - 1700048 | - /35.255 | - /40.741 | - /48.502 | - 1- | - $/ 48.502$ |
| Subtotal: ADCP IIE | - 170.936 | - /35.739 | - /41.474 | - 149.342 | . 1 - | - 149.342 |
| Subtotal: Procurement, All Modification Items | - 170.936 | - /35.739 | - /41.474 | - /49.342 | - $/$ | - /49.342 |
| Support (All Modification Items) |  |  |  |  |  |  |
| GROUP B: TOTAL NONRECURRING | - 16.808 | - 1- | - 1 - | - $1-$ | - 1 - | 1 - |
| Type 1 Training | - 10.043 | - 10.043 | - 1 - | - 10.050 | - 1 - | - 10.050 |
| Change Orders | - 12.575 | - 10.258 | - 1 - | - 10.541 | -1. | - 10.541 |
| Data | - 12.755 | - 11.448 | 1. | - 11.690 | 1. | - 11.690 |
| SUPPORT-EQUIP | - 10.000 | - 1 - | - 1- | - 1 - | -1- | - 1 - |
| ICS-Labor | - 13.262 | - 11.265 | - 11.992 | - /11.517 | -1- | - /11.517 |
| OTHER GOVT | - 14.859 | - 17.625 | - 1- | - 19.786 | - 1- | - 19.786 |
| PMA - Other Gov't Costs | - 15.539 | - 12.699 | 1. | - 14.623 | 1 - | - 14.623 |
| Subtotal: Support | - /25.841 | - /13.338 | - /1.992 | - /28.207 | 1 | - 128.207 |
| Installation |  |  |  |  |  |  |
| Modification Item 1 of 1: ADCP II E | - 1 - | $11 / 0.110$ | 49/0.490 | $58 / 0.580$ | - 1 - | $58 / 0.580$ |
| Subtotal: Installation | - 1- | 11/0.110 | 49/0.490 | 58/0.580 | - 1 - | 58/0.580 |
| Total |  |  |  |  |  |  |
| Total Cost (Procurement + Support + Installation) | 96.777 | 49.187 | 43.956 | 78.129 | 0.000 | 78.129 |

## UNCLASSIFIED



| Exhibit P-3a, Individual Modification: PB 2022 Air Force |  |  |  |  | Date: May 2021 |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 2 | P-1 Line Item Number / Title: F01500 / F-15 |  |  | Modification Number / Title: 8800 / F-15E MIDS JTRS |  |  |
| ID Code (A=Service Ready, B=Not Service Ready) : B | MDAP/MAIS Code: |  |  |  |  |  |
| Resource Summary | Prior Years | FY 2020 | FY 2021 | FY 2022 Base | FY 2022 OCO | FY 2022 Total |
| Procurement Quantity (Units in Each) | - | - | - | - | - | - |
| Gross/Weapon System Cost (\$ in Millions) | 34.023 | 34.576 | 29.011 | 38.588 | 0.000 | 38.588 |
| Less PY Advance Procurement (\$ in Millions) | - | - | - | - | - | - |
| Net Procurement (P-1) (\$ in Millions) | 34.023 | 34.576 | 29.011 | 38.588 | 0.000 | 38.588 |
| Plus CY Advance Procurement (\$ in Millions) | - | - | - | - | - | - |
| Total Obligation Authority (\$ in Millions) | 34.023 | 34.576 | 29.011 | 38.588 | 0.000 | 38.588 |
| (The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.) |  |  |  |  |  |  |
| Initial Spares (\$ in Millions) | - | - | - | - | - | - |
| Gross/Weapon System Unit Cost (\$ in Millions) | - | - | - | - | - | - |

## Description:

This upgrade integrates and installs a new Link 16 system on the F-15E that complies with an NSA mandate on cryptographic modernization and an FAA mandate on frequency remapping. The FAA mandate requires all fielded Link-16 terminals incorporate the frequency re-mapping capability by 2025.

In addition to meeting the two mandates, the system will significantly increase data link capacity and improve long range performance and the ability to operate in a jamming environment. It will also reduce sustainment costs due to its commonality with other DoD assets.
 buys, buys to protect production schedule, and minor engineering efforts for redesign.

DMSMS costs are included in Group B NRE; SE/PM costs are included in the Group B recurring
Milestone/Development Status
MIDS JTRS will be integrated in OFP Suite 9. Milestone C was approved June 2018.

| Secondary Distribution |  | FY 2020 | FY 2021 | $\begin{gathered} \text { FY } 2022 \\ \text { Base } \end{gathered}$ | $\begin{gathered} \text { FY } 2022 \\ \text { OcO } \end{gathered}$ | $\begin{gathered} \hline \text { FY } 2022 \\ \text { Total } \end{gathered}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| AF | Quantity | - | - | - | - | - |
|  | Total Obligation Authority | 34.576 | 29.011 | 38.588 | - | 38.588 |
| Total: Secondary Distribution | Quantity | - | - | - | - | - |
|  | Total Obligation Authority | 34.576 | 29.011 | 38.588 | 0.000 | 38.588 |

## UNCLASSIFIED

| Exhibit P-3a, Individual Modification: PB 2022 Air Force |  |  |  |  | Date: May 2021 |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 2 |  | P-1 Line Item Number / Title: F01500 / F-15 |  |  | Modification Number / Title: 8800 / F-15E MIDS JTRS |  |
| ID Code (A=Service Ready, B=Not Service Ready) : B |  |  | MDAP/MAIS Code: |  |  |  |
| Models of Systems Affected: F-15E | Modification Type: Capability Improvement |  |  | Related RDT\&E PEs: 0207134F |  |  |
|  |  |  |  | FY 2022 Base | FY 2022 OCO | FY 2022 Total |
| Financial Plan | $\begin{gathered} \text { Qty (Each) I } \\ \text { Total Cost (\$ M) } \\ \hline \end{gathered}$ | $\begin{gathered} \text { Qty (Each) I } \\ \text { Total Cost (\$M) } \\ \hline \end{gathered}$ | $\begin{gathered} \text { Qty (Each) I } \\ \text { Total Cost }(\$ M) \\ \hline \end{gathered}$ | $\begin{gathered} \text { Qty (Each) I } \\ \text { Total Cost }(\$ M) \\ \hline \end{gathered}$ | $\begin{gathered} \text { Qty (Each) I } \\ \text { Total Cost (\$M) } \\ \hline \end{gathered}$ | $\begin{gathered} \text { Qty (Each) I } \\ \text { Total Cost }(\$ M) \\ \hline \end{gathered}$ |
| RDT\&E PE\# |  |  |  |  |  |  |
| 0207134F | - 179.274 | - 111.320 | - 11.550 | - 1 - | 1. | 1 - |
| Procurement |  |  |  |  |  |  |
| Modification Item 1 of 1: MIDS JTRS |  |  |  |  |  |  |
| A Kits |  |  |  |  |  |  |
| Recurring |  |  |  |  |  |  |
| MIDS JTRS:INSTALL KITS Group A (Active) | 70/0.574 | $56 / 2.240$ | $81 / 0.314$ | - 1 - | - 1- | - 1- |
| Subtotal: Recurring | - 10.574 | - 12.240 | - 10.314 | - 1- | - 1 - | - 1 - |
| B Kits |  |  |  |  |  |  |
| Recurring |  |  |  |  |  |  |
| MIDS JTRS:EQUIPMENT Group B (Active) | $70 / 29.775$ | $56 / 11.200$ | $81 / 17.040$ | - 1- | - 1 - | - 1- |
| Subtotal: Recurring | - /29.775 | - /11.200 | - /17.040 | - 1- | - 1- | - 1- |
| Subtotal: MIDS JTRS | - /30.349 | - /13.440 | - /17.354 | - 1 - | - 1- | - 1- |
| Subtotal: Procurement, All Modification Items | - /30.349 | - /13.440 | - /17.354 | - 1 - | - 1 | - 1 - |
| Support (All Modification Items) |  |  |  |  |  |  |
| GROUP B: TOTAL NONRECURRING | - 11.124 | - 1- | 1. | - 1 - | 1 - | 1 - |
| Change Orders | - 12.550 | - 16.500 | - 11.459 | - 112.750 | -1- | - 112.750 |
| OTHER GOVT | - 1- | - 16.176 | - 12.650 | - /10.952 | -1. | - /10.952 |
| ICS-Labor | - 1- | - 18.262 | - 13.084 | - 18.450 | -1- | - 18.450 |
| Subtotal: Support | - 13.674 | - /20.938 | - 17.193 | - $/ 32.152$ | -1. | - $/ 32.152$ |
| Installation |  |  |  |  |  |  |
| Modification Item 1 of 1: MIDS JTRS | - 1- | 210.198 | $36 / 4.464$ | $65 / 6.436$ | - 1 - | $65 / 6.436$ |
| Subtotal: Installation | - 1 - | 2/0.198 | $36 / 4.464$ | 65/6.436 | - 1 - | 65/6.436 |
| Total |  |  |  |  |  |  |
| Total Cost (Procurement + Support + Installation) | 34.023 | 34.576 | 29.011 | 38.588 | 0.000 | 38.588 |

## UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2022 Air Force Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 2

## P-1 Line Item Number / Title: F01500 / F-15

Date: May 2021
Modification Number / Title:
8800 / F-15E MIDS JTRS

ID Code (A=Service Ready, B=Not Service Ready) : B
Modification Item 1 of 1: MIDS JTRS


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| Exhibit P-3a, Individual Modification: PB 2022 Air Force |  |  |  |  |  |  |  |  | Date: May 2021 |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 2 |  |  |  | P-1 Line Item Number / Title: F01500 / F-15 |  |  |  |  | Modification Number / Title: 8800 / F-15E MIDS JTRS |  |  |  |
| ID Code (A=Service Ready, $\mathrm{B}=$ Not Service Ready) : B |  |  |  |  |  |  | MDAP/MAIS Code: |  |  |  |  |  |
| Modification Item 1 of 1: MIDS JTRS |  |  |  |  |  |  |  |  |  |  |  |  |
| Installation Information |  |  |  |  |  |  |  |  |  |  |  |  |
| Method of Implementation: Depot |  |  |  |  |  |  |  |  |  |  |  |  |
| Installation Schedule |  |  |  |  |  |  |  |  |  |  |  |  |
|  | FY 2020 |  |  |  | FY 2021 |  |  |  | FY 2022 |  |  |  |
| PYS | Q1 | Q2 | Q3 | Q4 | Q1 | Q2 | Q3 | Q4 | Q1 | Q2 | Q3 | Q4 |
| In 0 | - | - | - | - | - | - | - | 1 | 7 | 7 | 7 | 8 |
| Out 0 | - | - | - | - | - | - | - | 1 | 7 | 7 | 7 | 8 |

Exhibit P-3a, Individual Modification: PB 2022 Air Force Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 2
ID Code (A=Service Ready, B=Not Service Ready) : B

Date: May 2021
Modification Number / Title:
8801 / F-15 C/D SLEP Longerons

| MDAP/MAIS Code: |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Resource Summary | Prior Years | FY 2020 | FY 2021 | FY 2022 Base | FY 2022 OCO | FY 2022 Total |
| Procurement Quantity (Units in Each) | - | - | - | - | - | - |
| Gross/Weapon System Cost (\$ in Millions) | 12.923 | 21.627 | 6.333 | 25.923 | 0.000 | 25.923 |
| Less PY Advance Procurement (\$ in Millions) | - | - | - | - | - | - |
| Net Procurement (P-1) (\$ in Millions) | 12.923 | 21.627 | 6.333 | 25.923 | 0.000 | 25.923 |
| Plus CY Advance Procurement (\$ in Millions) | - | - | - | - | - | - |
| Total Obligation Authority (\$ in Millions) | 12.923 | 21.627 | 6.333 | 25.923 | 0.000 | 25.923 |
| (The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.) |  |  |  |  |  |  |
| Initial Spares (\$ in Millions) | - | - | - | - | - | - |
| Gross/Weapon System Unit Cost (\$ in Millions) | - | - | - | - | - | - |

## Description:


 development to the existing Longeron configuration is required. Data for replacement kits is resident within the F-15 program office. This is a Group B ONLY MOD.

 for redesign. DMSMS costs are included in Group B NRE; SE/PM costs are include in the Group B recurring; and Depot Costs are included in the Support Equipment.

Milestone/Development Status
This program replaces the components according to their original design. Therefore, no development effort or funding required.

| Secondary Distribution |  | FY 2020 | FY 2021 | $\begin{gathered} \text { FY } 2022 \\ \text { Base } \end{gathered}$ | $\begin{gathered} \text { FY } 2022 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \text { FY } 2022 \\ \text { Total } \end{gathered}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| AF | Quantity | - | - | - | - | - |
|  | Total Obligation Authority | 14.247 | 3.343 | 19.523 | - | 19.523 |
| AFNG | Quantity | - | - | - | - | - |
|  | Total Obligation Authority | 7.380 | 2.990 | 6.400 | - | 6.400 |
| Total: <br> Secondary Distribution | Quantity | - | - | - | - | - |
|  | Total Obligation Authority | 21.627 | 6.333 | 25.923 | 0.000 | 25.923 |

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| Exhibit P-3a, Individual Modification: PB 2022 Air Force |  |  |  |  | Date: May 2021 |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 2 | P-1 Line Item Number / Title:F01500 / F-15 |  |  |  | Modification Number / Title: 8804 / F-15 F-15 E/MUOS |  |
| ID Code (A=Service Ready, B=Not Service Ready) : B | MDAP/MAIS Code: |  |  |  |  |  |
| Resource Summary | Prior Years | FY 2020 | FY 2021 | FY 2022 Base | FY 2022 OCO | FY 2022 Total |
| Procurement Quantity (Units in Each) | - | - | - | - | - | - |
| Gross/Weapon System Cost (\$ in Millions) | - | 0.630 | 0.000 | 8.667 | 0.000 | 8.667 |
| Less PY Advance Procurement (\$ in Millions) | - | - | - | - | - | - |
| Net Procurement (P-1) (\$ in Millions) | - | 0.630 | 0.000 | 8.667 | 0.000 | 8.667 |
| Plus CY Advance Procurement (\$ in Millions) | - | - | - | - | - | - |
| Total Obligation Authority (\$ in Millions) | - | 0.630 | 0.000 | 8.667 | 0.000 | 8.667 |
| (The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.) |  |  |  |  |  |  |
| Initial Spares (\$ in Millions) | - | - | - | - | - | - |
| Gross/Weapon System Unit Cost (\$ in Millions) | - | - | - | - | - | - |

## Description:

This program, P-3A Mod 8804, F-15 F-15 E/MUOS, is a new start.




Milestone/Development Status
MUOS will be integrated into Suite 9.2 or later

| Secondary Distribution |  | FY 2020 | FY 2021 | $\begin{gathered} \text { FY } 2022 \\ \text { Base } \end{gathered}$ | $\begin{gathered} \text { FY } 2022 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \text { FY } 2022 \\ \text { Total } \end{gathered}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| AF | Quantity | - | - | - | - | - |
|  | Total Obligation Authority | 0.630 | - | 8.667 | - | 8.667 |
| Total: <br> Secondary Distribution | Quantity | - | - | - | - | - |
|  | Total Obligation Authority | 0.630 | 0.000 | 8.667 | 0.000 | 8.667 |

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| Exhibit P-3a, Individual Modification: PB 2022 Air Force |  |  |  |  | Date: May 2021 |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 2 |  | P-1 Line Item Number / Title: F01500 / F-15 |  |  | Modification Number / Title: 8804 / F-15 F-15 E/MUOS |  |
| ID Code (A=Service Ready, B=Not Service Ready) : B |  |  | MDAP/MAIS Code: |  |  |  |
| Models of Systems Affected: F-15E | Modification Type: Capability Improvement |  |  | Related RDT\&E PEs: 0207134F |  |  |
|  | Prior Years | FY 2020 | FY 2021 | FY 2022 Base | FY 2022 OCO | FY 2022 Total |
| Financial Plan | $\begin{gathered} \text { Qty (Each) I } \\ \text { Total Cost (\$ M) } \\ \hline \end{gathered}$ | $\begin{gathered} \text { Qty (Each) I } \\ \text { Total Cost (\$M) } \\ \hline \end{gathered}$ | $\begin{gathered} \text { Qty (Each) I } \\ \text { Total Cost (\$M) } \\ \hline \end{gathered}$ | $\begin{gathered} \text { Qty (Each) I } \\ \text { Total Cost (\$ M) } \\ \hline \end{gathered}$ | $\begin{gathered} \text { Qty (Each) I } \\ \text { Total Cost }(\$ M) \\ \hline \end{gathered}$ | $\begin{gathered} \text { Qty (Each) I } \\ \text { Total Cost }(\$ M) \\ \hline \end{gathered}$ |
| Procurement |  |  |  |  |  |  |
| Modification Item 1 of 1: Group B (3) |  |  |  |  |  |  |
| A Kits |  |  |  |  |  |  |
| Recurring |  |  |  |  |  |  |
| Group B:INSTALL KITS Group A (Active) | - 1- | - 1- | - 1- | 10/2.640 | - 1- | $10 / 2.640$ |
| Subtotal: Recurring | - 1- | - 1- | - 1 - | - 12.640 | - 1- | - 12.640 |
| B Kits |  |  |  |  |  |  |
| Recurring |  |  |  |  |  |  |
| Group B:EQUIPMENT Group B (Active) | - 1 - | 1 - | - 1- | $10 / 3.280$ | - 1- | $10 / 3.280$ |
| Subtotal: Recurring | - 1 | - 1 - | - 1 | - 13.280 | - 1- | - 13.280 |
| Subtotal: Group B (3) | - 1 | $1-$ | - 1- | - 15.920 | - 1 - | - 15.920 |
| Subtotal: Procurement, All Modification Items | - 1 | 1 | 1- | - 15.920 | - 1 - | - 15.920 |
| Support (All Modification Items) |  |  |  |  |  |  |
| OTHER GOVT | - 1 - | - 10.630 | - 1 - | - 12.747 | - 1- | - 12.747 |
| Subtotal: Support | - 1 - | - 10.630 | - 1- | - 12.747 | -1. | - 12.747 |
| Installation |  |  |  |  |  |  |
| Subtotal: Installation | - 1. | - 1- | - 1- | - 1- | - / - | - 1- |
| Total |  |  |  |  |  |  |
| Total Cost (Procurement + Support + Installation) | - | 0.630 | 0.000 | 8.667 | 0.000 | 8.667 |

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| Exhibit P-3a, Individual Modification: PB 2022 Air Force |  |  |  |  | Date: May 2021 |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 2 | P-1 Line Item Number / Title:F01500 / F-15 |  |  |  | Modification Number / Title: 8817 / F-15E DTM II |  |
| ID Code (A=Service Ready, $\mathrm{B}=$ Not Service Ready) : B | MDAP/MAIS Code: |  |  |  |  |  |
| Resource Summary | Prior Years | FY 2020 | FY 2021 | FY 2022 Base | FY 2022 OCO | FY 2022 Total |
| Procurement Quantity (Units in Each) | - | - | - | - | - | - |
| Gross/Weapon System Cost (\$ in Millions) | - | 0.000 | 0.000 | 7.527 | 0.000 | 7.527 |
| Less PY Advance Procurement (\$ in Millions) | - | - | - | - | - | - |
| Net Procurement (P-1) (\$ in Millions) | - | 0.000 | 0.000 | 7.527 | 0.000 | 7.527 |
| Plus CY Advance Procurement (\$ in Millions) | - | - | - | - | - | - |
| Total Obligation Authority (\$ in Millions) | - | 0.000 | 0.000 | 7.527 | 0.000 | 7.527 |
| (The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.) |  |  |  |  |  |  |
| Initial Spares (\$ in Millions) | - | - | - | 0.640 | - | 0.640 |
| Gross/Weapon System Unit Cost (\$ in Millions) | - | - | - | - | - | - |

## Description:

This program, P-3A Mod 8817, F-15E DTM II, is a new start.
 storage, replaces aging mapping system, updates interfaces, provides data encryption and delivers cyber security.

Milestone/Development Status
Continuing to procure Group A and Group B kits

| Secondary Distribution |  | FY 2020 | FY 2021 | $\begin{gathered} \text { FY } 2022 \\ \text { Base } \end{gathered}$ | $\begin{gathered} \text { FY } 2022 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \text { FY } 2022 \\ \text { Total } \end{gathered}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| AF | Quantity | - | - | - | - | - |
|  | Total Obligation Authority | - | - | 7.527 | - | 7.527 |
| Total: <br> Secondary Distribution | Quantity | - | - | - | - | - |
|  | Total Obligation Authority | 0.000 | 0.000 | 7.527 | 0.000 | 7.527 |

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| Exhibit P-3a, Individual Modification: PB 2022 Air Force |  |  |  |  | Date: May 2021 |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 2 |  | P-1 Line Item Number / Title: F01500 / F-15 |  |  | Modification Number / Title: 8817 / F-15E DTM II |  |
| ID Code (A=Service Ready, B=Not Service Ready) : B |  |  | MDAP/MAIS Code: |  |  |  |
| Models of Systems Affected: F-15E | Modification Type: Reliability \& Maintainability |  |  | Related RDT\&E PEs: 0207134F |  |  |
|  | Prior Years | FY 2020 | FY 2021 | FY 2022 Base | FY 2022 OCO | FY 2022 Total |
| Financial Plan | $\begin{gathered} \text { Qty (Each) I } \\ \text { Total Cost }(\$ M) \\ \hline \end{gathered}$ | $\begin{gathered} \text { Qty (Each) I } \\ \text { Total Cost }(\$ M) \\ \hline \end{gathered}$ | $\begin{gathered} \text { Qty (Each) I } \\ \text { Total Cost (\$ M) } \\ \hline \end{gathered}$ | $\begin{gathered} \text { Qty (Each) I } \\ \text { Total Cost (\$ M) } \end{gathered}$ | $\begin{gathered} \text { Qty (Each) I } \\ \text { Total Cost }(\$ M) \\ \hline \end{gathered}$ | $\begin{gathered} \text { Qty (Each) I } \\ \text { Total Cost (\$M) } \\ \hline \end{gathered}$ |
| Procurement |  |  |  |  |  |  |
| Modification Item 1 of 1: Data Transfer Module II |  |  |  |  |  |  |
| A Kits |  |  |  |  |  |  |
| Recurring |  |  |  |  |  |  |
| Data Transfer Module li:INSTALL KITS Group A (Active) | - 1- | -1- | - 1- | 61/1.464 | -1- | 61/1.464 |
| Subtotal: Recurring | - 1- | - / - | - 1- | - /1.464 | - 1- | - 11.464 |
| B Kits |  |  |  |  |  |  |
| Recurring |  |  |  |  |  |  |
| Data Transfer Module Il:EQUIPMENT Group B (Active) | - 1- | 1 - | $1-$ | 61/4.575 | - 1- | 61/4.575 |
| Subtotal: Recurring | - 1- | - 1- | - 1- | - /4.575 | - 1- | - 14.575 |
| Subtotal: Data Transfer Modul II | - 1 | - 1 - | 1 - | - 16.039 | - 1 - | - 16.039 |
| Subtotal: Procurement, All Modification Items | - 1- | - 1- | $1 \cdot$ | - /6.039 | - 1- | - 16.039 |
| Support (All Modification Items) |  |  |  |  |  |  |
| Change Orders | - 1- | - 1 - | - 1- | - 11.488 | - 1 - | - 11.488 |
| Subtotal: Support | - 1- | - 1- | - 1- | - 11.488 | - 1. | - 11.488 |
| Installation |  |  |  |  |  |  |
| Modification Item 1 of 1: Data Transfer Module II | - 1- | - 1- | - 1- | $61 / 0.000$ | - 1 - | $61 / 0.000$ |
| Subtotal: Installation | - 1 - | - 1- | - 1 - | $61 /$ - | - 1- | $61 /$ - |
| Total |  |  |  |  |  |  |
| Total Cost (Procurement + Support + Installation) | $\cdot$ | 0.000 | 0.000 | 7.527 | 0.000 | 7.527 |

## UNCLASSIFIED



## UNCLASSIFIED

| Exhibit P-3a, Individual Modification: PB 2022 Air Force |  |  |  |  | Date: May 2021 |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 2 | P-1 Line Item Number / Title:F01500 / F-15 |  | Modification Number / Title: 8820 / F-15E Digital Color Display |  |  |  |
| ID Code (A=Service Ready, B=Not Service Ready) : A | MDAP/MAIS Code: |  |  |  |  |  |
| Resource Summary | Prior Years | FY 2020 | FY 2021 | FY 2022 Base | FY 2022 OCO | FY 2022 Total |
| Procurement Quantity (Units in Each) | - | - | - | - | - | - |
| Gross/Weapon System Cost (\$ in Millions) | - | 0.000 | 0.000 | 15.100 | 0.000 | 15.100 |
| Less PY Advance Procurement (\$ in Millions) | - | - | - | - | - | - |
| Net Procurement (P-1) (\$ in Millions) | - | 0.000 | 0.000 | 15.100 | 0.000 | 15.100 |
| Plus CY Advance Procurement (\$ in Millions) | - | - | - | - | - | - |
| Total Obligation Authority (\$ in Millions) | - | 0.000 | 0.000 | 15.100 | 0.000 | 15.100 |
| (The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.) |  |  |  |  |  |  |
| Initial Spares (\$ in Millions) | - | - | - | - | - | - |
| Gross/Weapon System Unit Cost (\$ in Millions) | - | - | - | - | - | - |

## Description:

This program, P-3A Mod 8820, F-15E Digital Color Display, is a new start.
 targets, decrease risk of frat/missed targeting, and enable full utilization of radar capability that significantly enhances situational awareness.

Milestone/Development Status
Development will start in FY20.

| Secondary Distribution |  | FY 2020 | FY 2021 | $\begin{gathered} \text { FY } 2022 \\ \text { Base } \end{gathered}$ | $\begin{aligned} & \text { FY } 2022 \\ & \text { OCO } \end{aligned}$ | $\begin{gathered} \text { FY } 2022 \\ \text { Total } \end{gathered}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| AF | Quantity | - | - | - | - | - |
|  | Total Obligation Authority | - | - | 15.100 | - | 15.100 |
| Total: <br> Secondary Distribution | Quantity | - | - | - | $\bullet$ | - |
|  | Total Obligation Authority | 0.000 | 0.000 | 15.100 | 0.000 | 15.100 |

## UNCLASSIFIED



## UNCLASSIFIED



Exhibit P-40, Budget Line Item Justification: PB 2022 Air Force
Date: May 2021

## Appropriation / Budget Activity / Budget Sub Activity:

3010F: Aircraft Procurement, Air Force / BA 05: Modification of Inservice Aircraft / BSA 2: Tactical Aircraft

## P-1 Line Item Number / Title: <br> F01600 / F-16

| ID Code (A=Service Ready, B=Not Service Ready): B |  |  | Program Elements for Code B Items: 0207133F, 0207445F, 0809731F |  |  |  |  | Other Related Program Elements: 0207133F, 0207445F, 0207701F |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Line Item MDAP/MAIS Code: N/A |  |  |  |  |  |  |  |  |  |  |  |  |
| Resource Summary | Prior Years | FY 2020 | FY 2021 | $\begin{gathered} \text { FY } 2022 \\ \text { Base } \end{gathered}$ | $\begin{gathered} \text { FY } 2022 \\ \text { OCO } \end{gathered}$ | FY 2022 <br> Total | FY 2023 | FY 2024 | FY 2025 | FY 2026 | To Complete | Total |
| Procurement Quantity (Units in Each) | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Cost (\$ in Millions) | 808.976 | 252.109 | 622.593 | 613.166 | - | 613.166 | - | - | - | - | - | - |
| Less PY Advance Procurement (\$ in Millions) | 0.000 | - | - | - | - | - | - | - | - | - | - | - |
| Net Procurement (P-1) (\$ in Millions) | 808.976 | 252.109 | 622.593 | 613.166 | - | 613.166 | - | - | - | - | - | - |
| Plus CY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Total Obligation Authority (\$ in Millions) | 808.976 | 252.109 | 622.593 | 613.166 | - | 613.166 | - | - | - | - | - | - |
| (The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.) |  |  |  |  |  |  |  |  |  |  |  |  |
| Initial Spares (\$ in Millions) | - | 4.267 | 5.470 | 8.019 | - | 8.019 | - | - | - | - | - | - |
| Flyaway Unit Cost (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Unit Cost (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |

## Description:

The F-16 is a multi-role fighter capable of employing a wide variety of nuclear and conventional weapons and missiles in both the air-to-surface and air-to-air mission areas. There are 935 aircraft in the F - 16 fleet, consisting of 610 Post-Block ( $40 / 42 / 50 / 52$ ) and 325 Pre-Block ( $25 / 30 / 32$ ). The Post-Block aircraft have a service life of 8,000 Equivalent Flight Hours (EFH) and the Pre-Block have a service life of 10,800 EFH. The average age of the fleet is 28.7 years. The F-16 provides the capacity called for in the National Defense Strategy (NDS) by supplying the USAF $\sim 45 \%$ of its fighter fleet at the highest readiness rates and lowest operating costs of any US fighter. The F-16 programs listed below also support the NDS's call to strengthen alliances by being the DoD's largest Foreign Military Sales (FMS) program servicing over 28 countries and growing. The funding described in this document directly maps to the NDS as it provides upgrades to the F-16 platform enabling the delivery of joint lethality in contested environments in the coming decades. These specific modifications budgeted and programmed are below.
Funding for AETC-MTD Trainers mod is budgeted in PE 0809731F. Funding for all other F-16 mods in this exhibit is budgeted in PE 0207133F.
In accordance with Section 1815 of the FY 2008 National Defense Authorization Act (P.L. 110-181), this item is necessary for use by the active and reserve components of the Armed Forces for homeland defense missions, domestic emergency responses, and providing military support to civil authorities.

Funds may be used to address Diminishing Manufacturing Sources (DMS) issues.

| Secondary Distribution |  | FY 2020 | FY 2021 | $\begin{gathered} \text { FY } 2022 \\ \text { Base } \end{gathered}$ | $\begin{aligned} & \text { FY } 2022 \\ & \text { OCO } \end{aligned}$ | $\begin{gathered} \text { FY } 2022 \\ \text { Total } \end{gathered}$ | FY 2023 | FY 2024 | FY 2025 | FY 2026 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| AF | Quantity | - | - | - | - | - | - | - | - | - |
|  | Total Obligation Authority | 162.013 | 495.027 | 498.964 | 0.000 | 498.964 | - | - | - | - |
| AFNG | Quantity | - | - | - | - | - | - | - | - | - |
|  | Total Obligation Authority | 88.561 | 119.273 | 100.999 | - | 100.999 | - | - | - | - |
| AFR | Quantity | - | - | - | - | - | - | - | - | - |
|  | Total Obligation Authority | 1.535 | 8.293 | 13.203 | - | 13.203 | - | - | - | - |

## UNCLASSIFIED

| Exhibit P-40, Budget Line Item Justification: PB 2022 Air Force |  |  |  |  |  |  |  | Date: May 2021 |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: <br> 3010F: Aircraft Procurement, Air Force / BA 05: Modification of Inservice Aircraft / <br> BSA 2: Tactical Aircraft |  |  |  |  | P-1 Line Item Number / Title: F01600 / F-16 |  |  |  |  |  |
| ID Code (A=Service Ready | Service Ready): B | Program Elements for Code B Items: 0207133F, 0207445F, 0809731F |  |  |  |  | Other Related Program Elements: 0207133F, 0207445F, 0207701F |  |  |  |
| Line Item MDAP/MAIS Code: N/A |  |  |  |  |  |  |  |  |  |  |
| Secondary Distribution |  | FY 2020 | FY 2021 | $\begin{gathered} \text { FY } 2022 \\ \text { Base } \end{gathered}$ | $\begin{aligned} & \text { FY } 2022 \\ & \text { OCO } \end{aligned}$ | $\begin{gathered} \text { FY } 2022 \\ \text { Total } \end{gathered}$ | FY 2023 | FY 2024 | FY 2025 | FY 2026 |
| Total: <br> Secondary Distribution | Quantity | - | - | - | - | - |  | - | - | - |
|  | Total Obligation Authority | 252.109 | 622.593 | 613.166 | 0.000 | 613.166 | - | - | - | - |

Exhibit P-40, Budget Line Item Justification: PB 2022 Air Force
Date: May 2021
Appropriation / Budget Activity / Budget Sub Activity:
3010F: Aircraft Procurement, Air Force / BA 05: Modification of Inservice Aircraft /
BSA 2: Tactical Aircraft

## P-1 Line Item Number / Title: <br> F01600 / F-16

| ID Code (A=Service Ready, B=Not Service Ready): B $\quad$ P |  |  | Program Elements for Code B Items: 0207133F, 0207445F, 0809731F |  |  |  |  | Other Related Program Elements: 0207133F, 0207445F, 0207701F |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Line Item MDAP/MAIS Code: N/A |  |  |  |  |  |  |  |  |  |  |
| Exhibits Schedule |  |  |  |  | Prior Years | FY 2020 | FY 2021 | FY 2022 Base | FY 2022 OCO | FY 2022 Total |
| Exhibit Type | Title* | Subexhibits | $\begin{aligned} & \text { ID } \\ & \text { CD } \end{aligned}$ | MDAP/ MAIS Code | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) |
| P-40a*** | 633030 / Aggressors Update (Capability Improvement) |  |  |  | - 19.360 | - 10.000 | - 13.131 | - 10.000 | - 10.000 | - 10.000 |
| P-40a*** | 633041 / Anti Jam (Capability Improvement) |  |  |  | - 15.000 | 1 | - 1 - | - 1 | - 1 | - 1 - |
| P-40a*** | 633042 / Missile Warning Systems (Capability Improvement) |  |  |  | - / 12.000 | - 1 - | - 1 - | - 1 - | - 1 - | 1 |
| P-40a*** | 661652 / Link 16 Crypto (Capability Improvement) |  |  |  | - 10.139 | 1 | 1 | - 1 | - 1 | - 1 |
| P-40a*** | 661653 / MIDS-JTRS (Capability Improvement) |  |  |  | - 1237.644 | - 10.269 | - / 33.093 | - 10.000 | 1 | - 10.000 |
| P-40a*** | 8662 I AETC MTD UPGRADES-FIELD TRAINING DETACHMENTS (Capability Improvement) |  |  |  | - / 112.272 | - 15.431 | - 10.487 | - 10.840 | - 1 - | - 10.840 |
| P-40a*** | 866251 / Full Combat Mission Training (Capability Improvement) |  |  |  | - 13.128 | - 10.000 | - 1 | - 10.000 | - 1 | - 10.000 |
| P-40a*** | 99999x / Low Cost Modifications (Capability Improvement) |  |  |  | /11.750 | - 10.010 | - 10.010 | - 10.146 | 1 | - 10.146 |
| P-3a | 602148 / MMC and Display Generator Upgrade (Capability Improvement) |  | B |  | - 10.000 | - 10.000 | - / 15.386 | - / 37.754 | - 10.000 | - / 37.754 |
| P-3a | 602600 / F-16 LEGACY STRUCTURAL SLEP (Service Life Extension) |  | B |  | - / 49.566 | - 145.050 | - 185.751 | - /100.120 | - 10.000 | - / 100.120 |
| P-3a | 618250 / Comm Suite Upgrade (Capability Improvement) |  | B |  | - $/ 52.142$ | - /18.610 | - 157.689 | - 170.021 | - 10.000 | - 170.021 |
| P-3a | 633031 / HFLCC AGCAS (Capability Improvement) |  | B |  | - 126.688 | - / 17.043 | - 125.917 | - / 17.577 | - 10.000 | - /17.577 |
| P-3a | 633032 / AIFF MODE 5 (Capability Improvement) |  | B |  | - 10.273 | - 10.000 | - 10.000 | - / 13.088 | - 10.000 | - /13.088 |
| P-3a | 694050 / AESA Radars (Capability Improvement) |  | B |  | - 1274.322 | - /159.394 | - 1342.196 | - / 317.164 | - 10.000 | - / 317.164 |
| P-3a | 704050 / Digital Radar Warning Receiver (RWR) (Capability Improvement) |  | B |  | - 10.000 | - 10.000 | - / 16.187 | - 149.964 | - 10.000 | - / 49.964 |
| P-3a | 866250 / F-16 TRAINING SYSTEMS (Capability Improvement) |  | B |  | - / 14.692 | - 16.302 | - 142.746 | - 16.492 | - 10.000 | - 16.492 |
| P-40 | Total Gross/Weapon System Cost |  |  |  | - 1808.976 | - 1252.109 | - $/ 622.593$ | - 1613.166 | 1. | - 1613.166 |

*** Although this is an Exhibit P-40a item, the actual exhibit is not included since all of the required information for this item is already being shown here.
*Title represents 1) the Number / Title for Items; 2) the Number / Title [DODIC] for Ammunition; and/or 3) the Number / Title (Modification Type) for Modifications
Note: Totals in this Exhibit P-40 set may not be exact or sum exactly due to rounding

## Justification:

This program, P-3A Mod 633032, AIFF MODE 5, is a new start.
Where applicable, justification for individual modifications is provided in the $P-3 A$ exhibits.

| Exhibit P-3a, Individual Modification: PB 2022 Air Force |  |  |  |  | Date: May 2021 |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 2 | P-1 Line Item Number / Title:F01600 / F-16 |  |  |  | Modification Number / Title: 602148 / MMC and Display Generator Upgrade |  |
| ID Code (A=Service Ready, $\mathrm{B}=$ Not Service Ready) : B | MDAP/MAIS Code: |  |  |  |  |  |
| Resource Summary | Prior Years | FY 2020 | FY 2021 | FY 2022 Base | FY 2022 OCO | FY 2022 Total |
| Procurement Quantity (Units in Each) | - | - | - | - | - | - |
| Gross/Weapon System Cost (\$ in Millions) | 0.000 | 0.000 | 15.386 | 37.754 | 0.000 | 37.754 |
| Less PY Advance Procurement (\$ in Millions) | 0.000 | - | - | - | - | - |
| Net Procurement (P-1) (\$ in Millions) | 0.000 | 0.000 | 15.386 | 37.754 | 0.000 | 37.754 |
| Plus CY Advance Procurement (\$ in Millions) | - | - | - | - | - | - |
| Total Obligation Authority (\$ in Millions) | 0.000 | 0.000 | 15.386 | 37.754 | 0.000 | 37.754 |
| (The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.) |  |  |  |  |  |  |
| Initial Spares (\$ in Millions) | - | 0.454 | 2.362 | 7.799 | - | 7.799 |
| Gross/Weapon System Unit Cost (\$ in Millions) | - | - | - | - | - | - |

## Description:





 growing DMS concerns with the current PDG.

This funding request will support potential DMS and obsolescence solutions, to include, if optimal, life of type buys, or bridge buys limited to the program of record quantity.
Milestone/Development Status
For MMC, FY21 will continue SIL testing. Milestone C is scheduled for January FY22

| Secondary Distribution |  | FY 2020 | FY 2021 | $\begin{aligned} & \text { FY } 2022 \\ & \text { Base } \end{aligned}$ | $\begin{gathered} \text { FY } 2022 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \text { FY } 2022 \\ \text { Total } \end{gathered}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| AF | Quantity | - | - | - | - | - |
|  | Total Obligation Authority | - | 15.336 | 28.131 | - | 28.131 |
| AFNG | Quantity | - | - | - | - | - |
|  | Total Obligation Authority | - | 0.050 | 9.623 | - | 9.623 |
| Total: <br> Secondary Distribution | Quantity | - | $\cdot$ | - | $\cdot$ | - |
|  | Total Obligation Authority | 0.000 | 15.386 | 37.754 | 0.000 | 37.754 |


| Exhibit P-3a, Individual Modification: PB 2022 Air Force |  |  |  |  | Date: May 2021 |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 2 |  | P-1 Line Item Number / Title:F01600 / F-16 |  |  | Modification Number / Title: 602148 / MMC and Display Generator Upgrade |  |
| ID Code (A=Service Ready, B=Not Service Ready) : B |  |  | MDAP/MAIS Code: |  |  |  |
| Models of Systems Affected: F-16 | Modification Type: Capability Improvement |  |  | Related RDT\&E PEs: 0207133F |  |  |
|  | Prior Years | FY 2020 | FY 2021 | FY 2022 Base | FY 2022 OCO | FY 2022 Total |
| Financial Plan | $\begin{gathered} \text { Qty (Each) I } \\ \text { Total Cost (\$ M) } \end{gathered}$ | Qty (Each) I Total Cost (\$ M) | Qty (Each) I Total Cost (\$ M) | Qty (Each) I Total Cost (\$ M) | Qty (Each) I Total Cost (\$ M) | Qty (Each) I Total Cost (\$ M) |
| RDT\&E PE\# |  |  |  |  |  |  |
| 0207133F | $63 / 80.784$ | /16.919 | - 17.046 | - 12.891 | 1 - | 12.891 |
| Procurement |  |  |  |  |  |  |
| Modification Item 1 of 2: MMC Kit |  |  |  |  |  |  |
| A Kits |  |  |  |  |  |  |
| Recurring |  |  |  |  |  |  |
| MMC Kitilnstall kiTs Group A (Active) | - 1- | $1-$ | 1. | $55 / 0.028$ | - 1- | 55/0.028 |
| MMC Kit:INSTALL KITS Group A (Guard) | - 1- | - 1- | 100/0.050 | $57 / 0.029$ | 1. | $57 / 0.029$ |
| Subtotal: Recurring | 1 - | 1 | - 10.050 | - 10.057 | 1 - | - 10.057 |
| B Kits |  |  |  |  |  |  |
| Recurring |  |  |  |  |  |  |
| MMC Kit:EQUIPMENT Group B (Guard) | - 1- | - 1- | 1 - | 78/9.594 | - 1 - | 78/9.594 |
| Subtotal: Recurring | - 1- | - 1- | - / - | - 19.594 | - / - | - 19.594 |
| Subtotal: MMC Kit | - 1- | - 1- | - 10.050 | - 19.651 | - / - | - 19.651 |
| Modification Item 2 of 2: PDG Kit |  |  |  |  |  |  |
| A Kits |  |  |  |  |  |  |
| Recurring |  |  |  |  |  |  |
| PDG KitiINSTALL KITS Group A (Active) | - 1- | - 1- | 125/0.750 | $156 / 0.936$ | - 1 - | 156/0.936 |
| Subtotal: Recurring | - 1- | - 1- | - 10.750 | - 10.936 | - 1. | - 10.936 |
| B Kits |  |  |  |  |  |  |
| Recurring |  |  |  |  |  |  |
| PDG Kit:EQUIPMENT Group B (Active) | - 1- | - 1- | - 1- | $125 / 10.500$ | - 1- | 125/10.500 |
| Subtotal: Recurring | 1 | - 1 - | - / - | - /10.500 | 1 | - /10.500 |
| Subtotal: PDG Kit | - 1 - | - 1- | - 10.750 | - /11.436 | - / - | - /11.436 |
| Subtotal: Procurement, All Modification Items | - / - | - 1 - | - 10.800 | - 121.087 | - / - | - 121.087 |
| Support (All Modification Items) |  |  |  |  |  |  |
| GROUP B: TOTAL NONRECURRING | - 10.000 | - 1 - | - 1- | - 1 - | - 1 - | - 1 |
| ICS-Material | - 1 - | - 1- | - 12.189 | - 17.026 | - 1- | - 17.026 |
| Change Orders | - 1- | -1- | - 12.110 | - 11.639 | - 1- | - 11.639 |
| SUPPORT-EQUIP | - 1 - | - 1 - | - 12.114 | - 14.802 | 1. | - 14.802 |
| OTHER GOVT | - 1 - | 1 - | - 18.173 | - 13.200 | 1. | - 13.200 |

UNCLASSIFIED

| Exhibit P-3a, Individual Modification: PB 2022 Air Force |  |  |  |  | Date: May 2021 |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 2 |  | P-1 Line Item Number / Title: F01600 / F-16 |  |  | Modification Number / Title: 602148 / MMC and Display Generator Upgrade |  |
| ID Code (A=Service Ready, B=Not Service Ready) : B |  |  | MDAP/MAIS Code: |  |  |  |
| Models of Systems Affected: F-16 | Modification Type: Capability Improvement |  |  | Related RDT\&E PEs: 0207133F |  |  |
|  |  |  |  | FY 2022 Base | FY 2022 OCO | FY 2022 Total |
| Financial Plan | $\begin{gathered} \text { Qty (Each) I } \\ \text { Total Cost (\$ M) } \end{gathered}$ | Qty (Each) I Total Cost (\$ M) | Qty (Each) I Total Cost (\$ M) | Qty (Each) I Total Cost (\$ M) | Qty (Each) I Total Cost (\$ M) | Qty (Each) I Total Cost (\$ M) |
| Subtotal: Support | - 10.000 | - 1- | - 114.586 | - /16.667 | - 1- | $-116.667$ |
| Installation |  |  |  |  |  |  |
| Subtotal: Installation | - 1. | - $1 \cdot$ | - 1. | - 1. | - 1. | - 1- |
| Total |  |  |  |  |  |  |
| Total Cost (Procurement + Support + Installation) | 0.000 | 0.000 | 15.386 | 37.754 | 0.000 | 37.754 |

UNCLASSIFIED


UNCLASSIFIED


Exhibit P-3a, Individual Modification: PB 2022 Air Force

## Appropriation / Budget Activity / Budget Sub Activity:

 3010F/05/2
## P-1 Line Item Number / Title: F01600 / F-16

Date: May 2021

## Modification Number / Title:

602600 / F-16 LEGACY STRUCTURAL SLEP

| ID Code (A=Service Ready, B=Not Service Ready) : B | MDAP/MAIS Code: |
| :--- | :--- |


| Resource Summary | Prior Years | FY 2020 | FY 2021 | FY 2022 Base | FY 2022 OCO | FY 2022 Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Procurement Quantity (Units in Each) | - | - | - | - | - | - |
| Gross/Weapon System Cost (\$ in Millions) | 49.566 | 45.050 | 85.751 | 100.120 | 0.000 | 100.120 |
| Less PY Advance Procurement (\$ in Millions) | - | - | - | - | - | - |
| Net Procurement (P-1) (\$ in Millions) | 49.566 | 45.050 | 85.751 | 100.120 | 0.000 | 100.120 |
| Plus CY Advance Procurement (\$ in Millions) | - | - | - | - | - | - |
| Total Obligation Authority (\$ in Millions) | 49.566 | 45.050 | 85.751 | 100.120 | 0.000 | 100.120 |
| (The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.) |  |  |  |  |  |  |
| Initial Spares (\$ in Millions) | - | - | - | - | - | - |
| Gross/Weapon System Unit Cost (\$ in Millions) | - | - | - | - | - | - |

## Description:





 among aircraft blocks, the quantity and unit cost of kit procurement and hardware installation will differ from year to year, depending on the mix of aircraft involved.

This funding request will support potential DMS and obsolescence solutions, to include, if optimal, life of type buys or bridge buys limited to the program of record quantity.
Milestone/Development Status


 with working beginning in 2nd quarter FY21.

| Secondary Distribution |  | FY 2020 | FY 2021 | $\begin{gathered} \text { FY } 2022 \\ \text { Base } \end{gathered}$ | $\begin{aligned} & \text { FY } 2022 \\ & \text { OCO } \end{aligned}$ | $\begin{gathered} \text { FY } 2022 \\ \text { Total } \end{gathered}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| AF | Quantity | - | - | - | - | - |
|  | Total Obligation Authority | 38.510 | 75.576 | 89.362 | - | 89.362 |
| AFNG | Quantity | - | - | - | - | - |
|  | Total Obligation Authority | 6.540 | 10.175 | 10.758 | - | 10.758 |
| Total: <br> Secondary Distribution | Quantity | - | - | - | - | - |
|  | Total Obligation Authority | 45.050 | 85.751 | 100.120 | 0.000 | 100.120 |

## UNCLASSIFIED

| Exhibit P-3a, Individual Modification: PB 2022 Air Force |  |  |  |  | Date: May 2021 <br> Modification Number / Title: <br> 602600 / F-16 LEGACY STRUCTURAL SLEP |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 2 |  | P-1 Line Item Number / Title: F01600 / F-16 |  |  |  |  |
| ID Code (A=Service Ready, B=Not Service Ready) : B |  |  | MDAP/MAIS Code: |  |  |  |
| Models of Systems Affected: F-16 | Modification Type: Service Life Extension |  |  | Related RDT\&E PEs: 0207133F |  |  |
| Financial Plan | Prior Years | FY 2020 | FY 2021 | FY 2022 Base | FY 2022 OCO | FY 2022 Total |
|  | $\begin{gathered} \text { Qty (Each) I } \\ \text { Total Cost }(\$ M) \end{gathered}$ | Qty (Each) ! Total Cost (\$ M) | $\begin{gathered} \text { Qty (Each) I } \\ \text { Total Cost }(\$ M) \\ \hline \end{gathered}$ | Qty (Each) I Total Cost (\$ M) | Qty (Each) I Total Cost (\$ M) | $\begin{gathered} \text { Qty (Each) I } \\ \text { Total Cost (\$M) } \end{gathered}$ |
| RDT\&E PE\# |  |  |  |  |  |  |
| 0207133F | 4/80.846 | 1. | - 1- | - 1 - | - 1- | - 1- |
| Procurement |  |  |  |  |  |  |
| Modification Item 1 of 1: Legacy SLEP Kit |  |  |  |  |  |  |
| A Kits |  |  |  |  |  |  |
| Recurring |  |  |  |  |  |  |
| Legacy SLEP Kit:INSTALL KITS Group A (Active) | $17 / 6.769$ | $21 / 8.814$ | $28 / 12.381$ | $30 / 14.027$ | -1- | $30 / 14.027$ |
| Legacy SLEP KitilNSTALL KITS Group A (Guard) | 4/1.584 | 5/2.003 | 5/1.651 | $4 / 0.850$ | -1- | $4 / 0.850$ |
| Subtotal: Recurring | - 18.353 | - /10.817 | - /14.032 | - /14.877 | - 1- | - /14.877 |
| Subtotal: Legacy SLEP Kit | - 18.353 | - /10.817 | - 114.032 | - 114.877 | - / - | - 114.877 |
| Subtotal: Procurement, All Modification Items | - 18.353 | - /10.817 | - /14.032 | - /14.877 | - 1 - | - /14.877 |
| Support (All Modification Items) |  |  |  |  |  |  |
| GROUP A: TOTAL NONRECURRING | - 10.000 | - 10.000 | 1 - | - 10.000 | - 1- | - 10.000 |
| Change Orders | - 11.717 | - 12.330 | - 12.050 | - 12.219 | - 1 - | - 12.219 |
| Data | 1. | - 10.000 | 1. | - 1 - | 1- | - 1 - |
| SUPPORT-EQUIP | - 16.969 | - 18.290 | 1. | - 1 - | - 1- | -1- |
| OTHER GOVT | - 128.122 | - 17.733 | - 122.805 | - 13.760 | - 1- | - 13.760 |
| Subtotal: Support | - 136.808 | - /18.353 | /24.855 | - 15.979 | - 1- | - 15.979 |
| Installation |  |  |  |  |  |  |
| Modification Item 1 of 1: Legacy SLEP Kit | 2/4.405 | $7 / 15.880$ | 22 /46.864 | 32 179.264 | - 1 - | 32179.264 |
| Subtotal: Installation | 2/4.405 | 7/15.880 | $22 / 46.864$ | $32 / 79.264$ | -1- | 32/79.264 |
| Total |  |  |  |  |  |  |
| Total Cost (Procurement + Support + Installation) | 49.566 | 45.050 | 85.751 | 100.120 | 0.000 | 100.120 |

## UNCLASSIFIED



Exhibit P-3a, Individual Modification: PB 2022 Air Force Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 2
ID Code (A=Service Ready, B=Not Service Ready) : B

## P-1 Line Item Number / Title: F01600 / F-16

Date: May 2021
Modification Number / Title:
618250 / Comm Suite Upgrade

| MDAP/MAIS Code: |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Resource Summary | Prior Years | FY 2020 | FY 2021 | FY 2022 Base | FY 2022 OCO | FY 2022 Total |
| Procurement Quantity (Units in Each) | - | - | - | - | - | - |
| Gross/Weapon System Cost (\$ in Millions) | 52.142 | 18.610 | 57.689 | 70.021 | 0.000 | 70.021 |
| Less PY Advance Procurement (\$ in Millions) | - | - | - | - | - | - |
| Net Procurement (P-1) (\$ in Millions) | 52.142 | 18.610 | 57.689 | 70.021 | 0.000 | 70.021 |
| Plus CY Advance Procurement (\$ in Millions) | - | - | - | - | - | - |
| Total Obligation Authority (\$ in Millions) | 52.142 | 18.610 | 57.689 | 70.021 | 0.000 | 70.021 |
| (The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.) |  |  |  |  |  |  |
| Initial Spares (\$ in Millions) | 2.389 | 3.601 | 2.892 | - | - | - |
| Gross/Weapon System Unit Cost (\$ in Millions) | - | - | - | - | - | - |

## Description:





 our vital interests.
 flight testing and technical data updates, as required.

Milestone/Development Status
Continue NRE efforts. Milestone C completed December FY20. Procure Group B long-lead items and test assets. Pre-block installs start in FY21.

| Secondary Distribution |  | FY 2020 | FY 2021 | FY 2022 <br> Base | $\begin{gathered} \text { FY } 2022 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \text { FY } 2022 \\ \text { Total } \end{gathered}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| AF | Quantity | - | - | - | - | - |
|  | Total Obligation Authority | 18.610 | 42.809 | 37.333 | - | 37.333 |
| AFNG | Quantity | - | - | - | - | - |
|  | Total Obligation Authority | - | 11.160 | 23.276 | - | 23.276 |
| AFR | Quantity | - | - | - | - | - |
|  | Total Obligation Authority | - | 3.720 | 9.412 | - | 9.412 |
| Total: Secondary Distribution | Quantity | - | - | - | - | - |
|  | Total Obligation Authority | 18.610 | 57.689 | 70.021 | 0.000 | 70.021 |

## UNCLASSIFIED

| Exhibit P-3a, Individual Modification: PB 2022 Air Force |  |  |  |  | Date: May 2021 |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 2 |  | P-1 Line Item Number / Title: F01600 / F-16 |  |  | Modification Number / Title: 618250 / Comm Suite Upgrade |  |
| ID Code (A=Service Ready, B=Not Service Ready) : B |  |  | MDAP/MAIS Code: |  |  |  |
| Models of Systems Affected: F-16 | Modification Type: Capability Improvement |  |  | Related RDT\&E PEs: 0207133F |  |  |
|  |  |  |  | FY 2022 Base | FY 2022 OCO | FY 2022 Total |
| Financial Plan | $\begin{gathered} \text { Qty (Each) I } \\ \text { Total Cost (\$ M) } \\ \hline \end{gathered}$ | $\begin{gathered} \text { Qty (Each) I } \\ \text { Total Cost (\$M) } \\ \hline \end{gathered}$ | $\begin{gathered} \text { Qty (Each) I } \\ \text { Total Cost }(\$ M) \\ \hline \end{gathered}$ | $\begin{gathered} \text { Qty (Each) I } \\ \text { Total Cost }(\$ M) \\ \hline \end{gathered}$ | $\begin{gathered} \text { Qty (Each) I } \\ \text { Total Cost (\$M) } \\ \hline \end{gathered}$ | $\begin{gathered} \text { Qty (Each) I } \\ \text { Total Cost }(\$ M) \\ \hline \end{gathered}$ |
| RDT\&E PE\# |  |  |  |  |  |  |
| 0207133F | 1/8.126 | 1/3.939 | - 10.607 | - 1 - | - 1 - | 1 - |
| Procurement |  |  |  |  |  |  |
| Modification Item 1 of 1: Comm Suite MUOS |  |  |  |  |  |  |
| A Kits |  |  |  |  |  |  |
| Recurring |  |  |  |  |  |  |
| Comm Suite MUOS:INSTALL KITS Group A (Active) | - 1- | - 1- | - 1 - | 6/0.216 | - 1- | 6/0.216 |
| Comm Suite MUOS:INSTALL KITS Group A (Guard) | - 1 - | - 1- | $36 / 1.296$ | $50 / 1.800$ | - 1- | $50 / 1.800$ |
| Comm Suite MUOS:INSTALL KITS Group A (Reserve) | - 1- | -1- | $12 / 0.432$ | $22 / 0.792$ | - 1 - | $22 / 0.792$ |
| Subtotal: Recurring | 1. | 1 | - 11.728 | - 12.808 | 1. | - 12.808 |
| B Kits |  |  |  |  |  |  |
| Recurring |  |  |  |  |  |  |
| Comm Suite MUOS:EQUIPMENT Group B (Active) | - 1 - | - 1- | - 1- | 6/1.645 | - 1 - | 6/1.645 |
| Comm Suite MUOS:EQUIPMENT Group B (Guard) | 1 | - 1- | $36 / 9.864$ | 50/13.700 | - 1- | $50 / 13.700$ |
| Comm Suite MUOS:EQUIPMENT Group B (Reserve) | - 1- | - 1- | 1213.288 | 2216.028 | - 1- | 2216.028 |
| Subtotal: Recurring | -1. | - 1 | - /13.152 | - /21.373 | 1 - | - 121.373 |
| Subtotal: Comm Suite MUOS | - 1 - | - 1 - | - /14.880 | - 124.181 | - 1 - | - 124.181 |
| Subtotal: Procurement, All Modification Items | - 1 - | - / - | - /14.880 | - /24.181 | - 1 | - 124.181 |
| Support (All Modification Items) |  |  |  |  |  |  |
| PMA - Other Gov't Costs | - 14.530 | - 111.671 | - 1- | - 1- | - 1- | - 1- |
| Change Orders | 1. | 1. | - 15.000 | - 13.000 | -1- | - 13.000 |
| OTHER GOVT | - 13.326 | - 13.744 | - 15.000 | - 120.579 | 1 - | - 120.579 |
| SUPPORT-EQUIP | - 144.286 | - 13.195 | - 132.809 | - 111.893 | - 1- | - 111.893 |
| Subtotal: Support | - /52.142 | - /18.610 | 142.809 | - 135.472 | -1- | - 135.472 |
| Installation |  |  |  |  |  |  |
| Modification Item 1 of 1: Comm Suite MUOS | - 1 - | - 1 - | - 1 - | 48/10.368 | - 1 - | 48/10.368 |
| Subtotal: Installation | - 1. | 1 | 1. | 48/10.368 | - 1- | 48/10.368 |
| Total |  |  |  |  |  |  |
| Total Cost (Procurement + Support + Installation) | 52.142 | 18.610 | 57.689 | 70.021 | 0.000 | 70.021 |

## UNCLASSIFIED



## UNCLASSIFIED

| Exhibit P-3a, Individual Modification: PB 2022 Air Force |  |  |  |  | Date: May 2021 |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05/2 | P-1 Line Item Number / Title:F01600 / F-16 |  |  |  | Modification Number / Title: 633031 / HFLCC AGCAS |  |
| ID Code (A=Service Ready, B=Not Service Ready) : B |  |  | MDAP/MAIS Code: |  |  |  |
| Resource Summary | Prior Years | FY 2020 | FY 2021 | FY 2022 Base | FY 2022 OCO | FY 2022 Total |
| Procurement Quantity (Units in Each) | - | - | - | - | - | - |
| Gross/Weapon System Cost (\$ in Millions) | 26.688 | 17.043 | 25.917 | 17.577 | 0.000 | 17.577 |
| Less PY Advance Procurement (\$ in Millions) | - | - | - | - | - | - |
| Net Procurement (P-1) (\$ in Millions) | 26.688 | 17.043 | 25.917 | 17.577 | 0.000 | 17.577 |
| Plus CY Advance Procurement (\$ in Millions) | - | - | - | - | - | - |
| Total Obligation Authority (\$ in Millions) | 26.688 | 17.043 | 25.917 | 17.577 | 0.000 | 17.577 |
| (The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.) |  |  |  |  |  |  |
| Initial Spares (\$ in Millions) | - | - | - | - | - | - |
| Gross/Weapon System Unit Cost (\$ in Millions) | - | - | - | - | - | - |

## Description:

Hybrid Flight Control Computer (HFLCC) Auto Ground Collision Avoidance System (AGCAS) development and integration for aircraft prevents most Controlled Flight Into Terrain (CFIT) accidents using terrain database and prediction algorithms for aircraft trajectory recovery and executes an automated fly up maneuver to avoid collision.

This program also provides upgrades to F -16 aircraft to bring the entire fleet to a SCU 10 configuration. This SCU 10 baseline configuration enables each aircraft's flight control interoperability ensuring the proper functionality of the HFLCC when auto generating an aircraft fly-up.

This funding request will support potential DMS and obsolescence solutions, to include, if optimal, life of type buys, or bridge buys limited to the program of record quantity. This funding request also supports flight testing and technical data updates, as required. This modification directly supports the NDS through increasing warfighter readiness by safeguarding against aircrew losses.

Milestone/Development Status
AFRL has completed HFLCC development and will be fully flight certified by Jul 21. Milestone C has been approved. System Program Office will begin to make full rate production buys on Group B in FY21 and begin fielding in FY22.

| Secondary Distribution |  | FY 2020 | FY 2021 | $\begin{gathered} \text { FY } 2022 \\ \text { Base } \end{gathered}$ | $\begin{gathered} \text { FY } 2022 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \text { FY } 2022 \\ \text { Total } \end{gathered}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| AF | Quantity | - | - | - | - | - |
|  | Total Obligation Authority | 9.806 | 10.224 | 5.921 | - | 5.921 |
| AFNG | Quantity | - | - | - | - | - |
|  | Total Obligation Authority | 5.702 | 12.224 | 8.978 | - | 8.978 |
| AFR | Quantity | - | - | - | - | - |
|  | Total Obligation Authority | 1.535 | 3.469 | 2.678 | - | 2.678 |
| Total: Secondary Distribution | Quantity | - | - | - | $\cdot$ | - |
|  | Total Obligation Authority | 17.043 | 25.917 | 17.577 | 0.000 | 17.577 |

Exhibit P-3a, Individual Modification: PB 2022 Air Force

## Appropriation / Budget Activity / Budget Sub Activity:

 3010F / 05 / 2Date: May 2021
Modification Number / Title:
633031 / HFLCC AGCAS

ID Code (A=Service Ready, B=Not Service Ready) : B

## P-1 Line Item Number / Title: F01600 / F-16

| Models of Systems Affected: F-16 | Modification Type: Capability Improvement |  |  | Related RDT\&E PEs: 0207133F |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Prior Years | FY 2020 | FY 2021 | FY 2022 Base | FY 2022 OCO | FY 2022 Total |
| Financial Plan | Qty (Each) I Total Cost (\$ M) | Qty (Each) I Total Cost (\$ M) | Qty (Each) I Total Cost (\$ M) | Qty (Each) I Total Cost (\$ M) | Qty (Each) I <br> Total Cost (\$ M) | Qty (Each) I Total Cost (\$ M) |
| RDT\&E PE \# |  |  |  |  |  |  |
| 0207133F | - 11.200 | - 1- | - 1- | - 1- | - 1- | 1 - |
| Procurement |  |  |  |  |  |  |
| Modification Item 1 of 2: COMMON: SCU upgrade |  |  |  |  |  |  |
| B Kits |  |  |  |  |  |  |
| Recurring |  |  |  |  |  |  |
| COMMON: SCU upgrade:EQUIPMENT Group B (Active) | 11/1.206 | $35 / 6.632$ | $22 / 2.580$ | 11/1.379 | - 1 - | 11/1.379 |
| COMMON: SCU upgrade:EQUIPMENT Group B (Guard) | 38/4.209 | $38 / 4.370$ | $77 / 8.107$ | $39 / 4.814$ | - 1 - | 39/4.814 |
| COMMON: SCU upgrade:EQUIPMENT Group B (Reserve) | 11/1.184 | 11/1.260 | 2212.560 | 10/1.354 | - 1- | 10/1.354 |
| Subtotal: Recurring | - 16.599 | - /12.262 | - /13.247 | - /7.547 | - 1- | - 17.547 |
| Subtotal: COMMON: SCU upgrade | - /6.599 | - /12.262 | - /13.247 | - /7.547 | / - | - 17.547 |
| Modification Item 2 of 2: Install Kits Group A |  |  |  |  |  |  |
| A Kits |  |  |  |  |  |  |
| Recurring |  |  |  |  |  |  |
| Install Kits Group A:INSTALL KITS Group A (Active) | $20 / 0.350$ | $22 / 0.403$ | $30 / 0.534$ | 710.121 | - 1- | 7/0.121 |
| Install Kits Group A:INSTALL KITS Group A (Guard) | $48 / 0.850$ | $55 / 0.979$ | $73 / 1.298$ | 16/0.293 | - 1 - | 16/0.293 |
| Install Kits Group A:INSTALL KITS Group A (Reserve) | 13/0.239 | 16/0.275 | $20 / 0.365$ | 5/0.082 | - 1 - | 5/0.082 |
| Subtotal: Recurring | - 11.439 | - 11.657 | - 12.197 | - 10.496 | - 1 - | - 10.496 |
| Subtotal: Install Kits Group A | - /1.439 | - /1.657 | - /2.197 | - 10.496 | / - | - 10.496 |
| Subtotal: Procurement, All Modification Items | - /8.038 | - /13.919 | - /15.444 | - 18.043 | - 1 - | - 18.043 |
| Support (All Modification Items) |  |  |  |  |  |  |
| GROUP A: TOTAL NONRECURRING | - 1- | - 10.320 | - 1- | - 1- | - 1 - | - 1 - |
| GROUP B: TOTAL NONRECURRING | - /16.578 | - 10.600 | - 1 - | - 10.809 | - 1 - | - 10.809 |
| Change Orders | - 11.715 | - 10.572 | - 14.301 | - 12.929 | 1 - | - 12.929 |
| OTHER GOVT | - 10.217 | - 10.808 | - 10.809 | - 10.155 | - 1 - | - 10.155 |
| Subtotal: Support | - /18.510 | - 12.300 | - / 5.110 | - /3.893 | - 1 - | - 13.893 |
| Installation |  |  |  |  |  |  |
| Modification Item 2 of 2: Install Kits Group A | 4/0.140 | $28 / 0.824$ | $80 / 5.363$ | $120 / 5.641$ | - 1 - | $120 / 5.641$ |
| Subtotal: Installation | 4/0.140 | 28/0.824 | 80/5.363 | 120/5.641 | - 1 - | 120/5.641 |

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| Exhibit P-3a, Individual Modification: PB 2022 Air Force |  |  |  |  | Date: May 2021 |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 2 |  | P-1 Line Item Number / Title: F01600 / F-16 |  |  | Modification Number / Title: 633031 / HFLCC AGCAS |  |
| ID Code (A=Service Ready, B=Not Service Ready) : B |  |  | MDAP/MAIS Code: |  |  |  |
| Models of Systems Affected: F-16 | Modification Type: Capability Improvement |  |  | Related RDT\&E PEs: 0207133F |  |  |
|  |  |  |  | FY 2022 Base | FY 2022 OCO | FY 2022 Total |
| Financial Plan | $\begin{gathered} \text { Qty (Each) I } \\ \text { Total Cost (\$ M) } \\ \hline \end{gathered}$ | $\begin{gathered} \text { Qty (Each) I } \\ \text { Total Cost }(\$ M) \\ \hline \end{gathered}$ | $\begin{gathered} \hline \text { Qty (Each) I } \\ \text { Total Cost (\$M) } \\ \hline \end{gathered}$ | $\begin{gathered} \text { Qty (Each) I } \\ \text { Total Cost }(\$ \mathrm{M}) \\ \hline \end{gathered}$ | $\begin{gathered} \text { Qty (Each) I } \\ \text { Total Cost }(\$ M) \\ \hline \end{gathered}$ | Qty (Each) ! Total Cost (\$ M) |
| Total Cost (Procurement + Support + Installation) | 26.688 | 17.043 | 25.917 | 17.577 | 0.000 | 17.577 |

UNCLASSIFIED


## UNCLASSIFIED



| Exhibit P-3a, Individual Modification: PB 2022 Air Force |  |  |  |  | Date: May 2021 |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity 3010F / 05 / 2 | P-1 Line Item Number / Title: F01600 / F-16 |  |  |  | Modification Number / Title: 633032 I AIFF MODE 5 |  |
| ID Code (A=Service Ready, B=Not Service Ready) : B | MDAP/MAIS Code: |  |  |  |  |  |
| Resource Summary | Prior Years | FY 2020 | FY 2021 | FY 2022 Base | FY 2022 OCO | FY 2022 Total |
| Procurement Quantity (Units in Each) | - | - | - | - | - | - |
| Gross/Weapon System Cost (\$ in Millions) | 0.273 | 0.000 | 0.000 | 13.088 | 0.000 | 13.088 |
| Less PY Advance Procurement (\$ in Millions) | - | - | - | - | - | - |
| Net Procurement (P-1) (\$ in Millions) | 0.273 | 0.000 | 0.000 | 13.088 | 0.000 | 13.088 |
| Plus CY Advance Procurement (\$ in Millions) | - | - | - | - | - | - |
| Total Obligation Authority (\$ in Millions) | 0.273 | 0.000 | 0.000 | 13.088 | 0.000 | 13.088 |
| (The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.) |  |  |  |  |  |  |
| Initial Spares (\$ in Millions) | - | - | - | - | - | - |
| Gross/Weapon System Unit Cost (\$ in Millions) | - | - | - | - | - | - |

## Description:

This program, P-3A Mod 633032, AIFF MODE 5 , is a new start.
Project 633032, F-16 AIFF Mode 5, changed from F-16 ADS-B Out.
 hardware with an AIFF Mode 5 capable system.

Advanced Identify Friend or Foe system (AIFF) provides positive identification for Air Traffic Control reporting, combat targeting, and fratricide prevention.
 more lethal force to defeat enemies and achieve sustainable outcomes that protect the American people and vital US interests.

This funding request will support potential DMS and obsolescence solutions, to include, if optimal, life of type buys, or bridge buys limited to the program of record quantity. This funding request also supports flight testing and technical data updates, as required. Additionally, this funding will utilize existing hardware/software/firmware from the developed APX-125/APX-126 and re-host or integrate into the APX-12X.

Milestone/Development Status
Contract award - Mar 2020; SDR - Jul 2020; PDR - Jun 2021; CDR - Jan 2022.

| Secondary Distribution |  | FY 2020 | FY 2021 | $\begin{gathered} \text { FY } 2022 \\ \text { Base } \end{gathered}$ | $\begin{gathered} \text { FY } 2022 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \text { FY } 2022 \\ \text { Total } \end{gathered}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| AF | Quantity | - | - | - | - | - |
|  | Total Obligation Authority | - | - | 10.862 | - | 10.862 |
| AFNG | Quantity | - | - | - | - | - |
|  | Total Obligation Authority | - | - | 1.113 | - | 1.113 |
| AFR | Quantity | - | - | - | - | - |
|  | Total Obligation Authority | - | - | 1.113 | - | 1.113 |
| Total: | Quantity | - | - | - | - | - |

UNCLASSIFIED

| Exhibit P-3a, Individual Modification: PB 2022 Air Force |  |  |  | Date: May 2021 <br> Modification Number / Title: 633032 / AIFF MODE 5 |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 2 | P-1 Line Item Number / Title: F01600 / F-16 |  |  |  |  |
| ID Code (A=Service Ready, $\mathrm{B}=$ Not Service Ready) : B |  | MDAP/MAIS Code |  |  |  |
| Secondary Distribution | FY 2020 | FY 2021 | $\begin{aligned} & \text { FY } 2022 \\ & \text { Base } \end{aligned}$ | $\begin{aligned} & \text { FY } 2022 \\ & \text { OCO } \end{aligned}$ | $\begin{gathered} \text { FY } 2022 \\ \text { Total } \end{gathered}$ |
| Secondary Distribution Total Obligation Authority | 0.000 | 0.000 | 13.088 | 0.000 | 13.088 |

## UNCLASSIFIED

| Exhibit P-3a, Individual Modification: PB 2022 Air Force |  |  |  |  | Date: May 2021 |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 2 |  | P-1 Line Item Number / Title: F01600 / F-16 |  |  | Modification Number / Title: 633032 / AIFF MODE 5 |  |
| ID Code (A=Service Ready, B=Not Service Ready) : B |  |  | MDAP/MAIS Code: |  |  |  |
| Models of Systems Affected: F-16 | Modification Type: Capability Improvement |  |  | Related RDT\&E PEs: 0207133F |  |  |
|  | Prior Years | FY 2020 | FY 2021 | FY 2022 Base | FY 2022 OCO | FY 2022 Total |
| Financial Plan | $\begin{gathered} \text { Qty (Each) I } \\ \text { Total Cost (\$ M) } \\ \hline \end{gathered}$ | $\begin{gathered} \text { Oty (Each) I } \\ \text { Total Cost }(\$ M) \\ \hline \end{gathered}$ | $\begin{gathered} \text { Qty (Each) I } \\ \text { Total Cost }(\$ M) \end{gathered}$ | $\begin{gathered} \text { Qty (Each) I } \\ \text { Total Cost (\$ M) } \end{gathered}$ | $\begin{gathered} \text { Qty (Each) I } \\ \text { Total Cost }(\$ M) \\ \hline \end{gathered}$ | $\begin{gathered} \text { Qty (Each) I } \\ \text { Total Cost }(\$ M) \\ \hline \end{gathered}$ |
| Procurement |  |  |  |  |  |  |
| Modification Item 1 of 1: SCU 10 and APX-12X |  |  |  |  |  |  |
| A Kits |  |  |  |  |  |  |
| Recurring |  |  |  |  |  |  |
| SCU 10 and APX-12X:INSTALL KITS Group A (Active) | - 1 - | - 1- | - 1- | $4 / 1.587$ | 1 - | $4 / 1.587$ |
| SCU 10 and APX-12X:INSTALL KITS Group A (Guard) | $1-$ | $1-$ | 1 | 210.793 | 1 - | 210.793 |
| SCU 10 and APX-12X:INSTALL KITS Group A (Reserve) | 1 - | - 1- | - 1- | 2/0.793 | -1- | 210.793 |
| Subtotal: Recurring | 1. | - 1- | - $1-$ | - 13.173 | - 1- | - 13.173 |
| Subtotal: SCU 10 and APX-12X | 1 - | 1 - | 1 | - 13.173 | - / - | - 13.173 |
| Subtotal: Procurement, All Modification Items | - 1 - | -1. | - 1 - | - 13.173 | - 1- | - 13.173 |
| Support (All Modification Items) |  |  |  |  |  |  |
| GROUP A: TOTAL NONRECURRING | - 10.273 | - 1 - | - 1 - | - 18.635 | 1 - | - 18.635 |
| Subtotal: Support | - 10.273 | - 1 - | - 1 | - 18.635 | - 1- | - 18.635 |
| Installation |  |  |  |  |  |  |
| Modification Item 1 of 1: SCU 10 and APX-12X | 1. | - 1 - | 1. | $8 / 1.280$ | 1 - | $8 / 1.280$ |
| Subtotal: Installation | 1. | - 1 | - 1 - | 8/1.280 | - 1 | 8/1.280 |
| Total |  |  |  |  |  |  |
| Total Cost (Procurement + Support + Installation) | 0.273 | 0.000 | 0.000 | 13.088 | 0.000 | 13.088 |

## UNCLASSIFIED



Exhibit P-3a, Individual Modification: PB 2022 Air Force

## Appropriation / Budget Activity / Budget Sub Activity:

 3010F/05/2
## P-1 Line Item Number / Title: F01600 / F-16

Date: May 2021

## Modification Number / Title:

694050 / AESA Radars

ID Code ( $A=$ Sernice Ready, $B=$ Not Service Ready) : B

| Resource Summary | Prior Years | FY 2020 | FY 2021 | FY 2022 Base | FY 2022 OCO | FY 2022 Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Procurement Quantity (Units in Each) | - | - | - | - | - | - |
| Gross/Weapon System Cost (\$ in Millions) | 274.322 | 159.394 | 342.196 | 317.164 | 0.000 | 317.164 |
| Less PY Advance Procurement (\$ in Millions) | - | - | - | - | - | - |
| Net Procurement (P-1) (\$ in Millions) | 274.322 | 159.394 | 342.196 | 317.164 | 0.000 | 317.164 |
| Plus CY Advance Procurement (\$ in Millions) | - | - | - | - | - | - |
| Total Obligation Authority (\$ in Millions) | 274.322 | 159.394 | 342.196 | 317.164 | 0.000 | 317.164 |
| (The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.) |  |  |  |  |  |  |
| Initial Spares (\$ in Millions) | - | - | - | - | - | - |
| Gross/Weapon System Unit Cost (\$ in Millions) | - | - | - | - | - | - |

## Description:


 enhanced Air to Air capability and an expedited delivery schedule. It is imperative to operationally field the AESA radar in support of homeland defense against evolving threats.


 Center Display Units (CDU), High-Speed Data Network (HSDN) components, and Remote Interface Panels (RIPs), which are derived requirements for full Phase III AESA functionality.
Subsequent AESA radar buys began in 2QFY20 to outfit $505 \mathrm{~F}-16$ 's for the Combat Air Force (CAF) and ANG.
 flight testing and technical data updates, as required.
AESA Radar program will continue Phase III development efforts for full CDD radar development including flight testing and TO development.
Milestone/Development Status
 Production was approved 2QFY21 to support Phase III (505 radars) fielding beginning 1QFY22.

| Secondary Distribution |  | FY 2020 | FY 2021 | $\begin{gathered} \text { FY } 2022 \\ \text { Base } \end{gathered}$ | $\begin{gathered} \text { FY } 2022 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \text { FY } 2022 \\ \text { Total } \end{gathered}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| AF | Quantity | - | - | - | - | - |
|  | Total Obligation Authority | 83.075 | 280.197 | 316.639 | - | 316.639 |
| AFNG | Quantity | - | - | - | - | - |
|  | Total Obligation Authority | 76.319 | 61.999 | 0.525 | - | 0.525 |
| Total: <br> Secondary Distribution | Quantity | - | - | - | - | - |
|  | Total Obligation Authority | 159.394 | 342.196 | 317.164 | 0.000 | 317.164 |

## UNCLASSIFIED

| Exhibit P-3a, Individual Modification: PB 2022 Air Force |  |  |  |  | Date: May 2021 <br> Modification Number / Title: 694050 / AESA Radars |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 2 |  | P-1 Line Item Number / Title: F01600 / F-16 |  |  |  |  |
| ID Code (A=Service Ready, B=Not Service Ready) : B |  |  | MDAP/MAIS Code: |  |  |  |
| Models of Systems Affected: F-16 | Modification Type: Capability Improvement |  |  | Related RDT\&E PEs: 0207133F |  |  |
|  | Prior Years | FY 2020 | FY 2021 | FY 2022 Base | FY 2022 OCO | FY 2022 Total |
|  | Qty (Each) I Total Cost (\$ M) | Qty (Each) I Total Cost (\$ M) | Qty (Each) I Total Cost (\$ M) | Qty (Each) I Total Cost (\$ M) | Qty (Each) I <br> Total Cost (\$ M) | Qty (Each) I Total Cost (\$ M) |
| RDT\&E PE \# |  |  |  |  |  |  |
| 0207133F | 12/98.021 | 15/59.149 | - 138.842 | - 141.962 | - 1- | - 141.962 |
| Procurement |  |  |  |  |  |  |
| Modification Item 1 of 2: AESA JEON |  |  |  |  |  |  |
| B Kits |  |  |  |  |  |  |
| Recurring |  |  |  |  |  |  |
| AESA JEON:EQUIPMENT Group B (Guard) | 72/166.658 | - 1- | - 1- | - 1- | - 1- | - 1- |
| Subtotal: Recurring | - /166.658 | - 1 - | - 1 - | - / - | - 1 - | - 1 - |
| Subtotal: AESA JEON | - /166.658 | - 1- | - / - | - 1 - | - / - | - 1 |
| Modification Item 2 of 2: AESA Radar |  |  |  |  |  |  |
| B Kits |  |  |  |  |  |  |
| Recurring |  |  |  |  |  |  |
| AESA Radar:EQUIPMENT Group B (Active) | - 1- | $33 / 63.873$ | 85/164.883 | 83/200.431 | - 1- | 83/200.431 |
| AESA Radar:EQUIPMENT Group B (Guard) | - 1- | $30 / 72.431$ | 30/58.194 | - 1- | - 1- | - 1- |
| Subtotal: Recurring | - 1 - | - /136.304 | - /223.077 | - /200.431 | - 1 - | - /200.431 |
| Subtotal: AESA Radar | - 1- | - /136.304 | - /223.077 | - /200.431 | - 1- | - /200.431 |
| Subtotal: Procurement, All Modification Items | - /166.658 | - /136.304 | - /223.077 | - /200.431 | - 1- | - /200.431 |
| Support (All Modification Items) |  |  |  |  |  |  |
| SUPPORT-EQUIP | 273/42.864 | - 13.263 | - 18.353 | - 13.444 | - 1- | - 13.444 |
| Change Orders | - 17.703 | - 12.998 | - /19.620 | - 18.962 | - 1 - | - 18.962 |
| OTHER GOVT | - 134.685 | - /12.454 | - 137.342 | - 146.963 | - 1- | - 146.963 |
| ICS-Labor | - 15.372 | - 1- | - 13.334 | - /1.259 | - 1 - | - /1.259 |
| Mod of Spares | - /17.040 | - 10.487 | - 145.990 | - 153.780 | - 1 - | - 153.780 |
| Subtotal: Support | 273/107.664 | - /19.202 | - /114.639 | - 1114.408 | - 1 - | - 1114.408 |
| Installation |  |  |  |  |  |  |
| Modification Item 1 of 2: AESA JEON | $3 / 0.000$ | $36 / 3.888$ | $33 / 3.805$ | - 1 - | - 1 | 1 |
| Modification Item 2 of 2: AESA Radar | - 1 - | - 1 - | 9/0.675 | $31 / 2.325$ | - 1 - | 31/2.325 |
| Subtotal: Installation | 3/ - | 36/3.888 | 42/4.480 | 31/2.325 | - 1 - | 31/2.325 |
| Total |  |  |  |  |  |  |
| Total Cost (Procurement + Support + Installation) | 274.322 | 159.394 | 342.196 | 317.164 | 0.000 | 317.164 |

## UNCLASSIFIED



## UNCLASSIFIED



Exhibit P-3a, Individual Modification: PB 2022 Air Force Appropriation / Budget Activity / Budget Sub Activity: 3010F/05/2

## P-1 Line Item Number / Title: F01600 / F-16

Date: May 2021

## Modification Number / Title:

704050 / Digital Radar Warning Receiver (RWR)

| ID Code (A=Service Ready, B=Not Service Ready) : B | MDAP/MAIS Code: |
| :--- | :--- |


| Resource Summary | Prior Years | FY 2020 | FY 2021 | FY 2022 Base | FY 2022 OCO | FY 2022 Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Procurement Quantity (Units in Each) | - | - | - | - | - | - |
| Gross/Weapon System Cost (\$ in Millions) | 0.000 | 0.000 | 16.187 | 49.964 | 0.000 | 49.964 |
| Less PY Advance Procurement (\$ in Millions) | - | - | - | - | - | - |
| Net Procurement (P-1) (\$ in Millions) | 0.000 | 0.000 | 16.187 | 49.964 | 0.000 | 49.964 |
| Plus CY Advance Procurement (\$ in Millions) | - | - | - | - | - | - |
| Total Obligation Authority (\$ in Millions) | 0.000 | 0.000 | 16.187 | 49.964 | 0.000 | 49.964 |
| (The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.) |  |  |  |  |  |  |
| Initial Spares (\$ in Millions) | - | - | - | - | - | - |
| Gross/Weapon System Unit Cost (\$ in Millions) | - | - | - | - | - | - |

## Description:





 installation will differ from year to year depending on the mix of aircraft involved.

This program includes execution of RF compatibility (RFC) effort with associated systems.

 schedule will be updated to account for both ALR-69A installs and NGEW installs under the DRWR program.
 flight testing and technical data updates, as required

Milestone/Development Status
 updates. 4 Trial Verification/Vehicle Installations (TVI) and 4 Kit Proofs. Once each Kit Proof configuration is successfully completed, production buys and installs will commence for each configuration.

| Secondary Distribution |  | FY 2020 | FY 2021 | $\begin{gathered} \text { FY } 2022 \\ \text { Base } \end{gathered}$ | $\begin{gathered} \text { FY } 2022 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \text { FY } 2022 \\ \text { Total } \end{gathered}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| AF | Quantity | - | - | - | - | - |
|  | Total Obligation Authority | 0.000 | 1.711 | 3.238 | - | 3.238 |
| AFNG | Quantity | - | - | - | - | - |
|  | Total Obligation Authority | - | 14.476 | 46.726 | - | 46.726 |

UNCLASSIFIED

| Exhibit P-3a, Individual Modification: PB 2022 Air Force |  |  |  |  | Date: May 2021 |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 2 |  | P-1 Line Item Number / Title: F01600 / F-16 |  |  | Modification Number / Title: <br> 704050 / Digital Radar Warning Receiver (RWR) |  |
| ID Code (A=Service Ready, B=Not Service Ready) : B |  |  | MDAP/MAIS Code: |  |  |  |
| Secondary Distribution |  | FY 2020 | FY 2021 | $\begin{gathered} \text { FY } 2022 \\ \text { Base } \end{gathered}$ | $\begin{gathered} \text { FY } 2022 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \hline \text { FY } 2022 \\ \text { Total } \end{gathered}$ |
| Total: | Quantity | - | - | - | - | - |
| Secondary Distributio | Total Obligation Authority | 0.000 | 16.187 | 49.964 | 4 0.000 | 49.964 |

## UNCLASSIFIED

| Exhibit P-3a, Individual Modification: PB 2022 Air Force |  |  |  |  | Date: May 2021 |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 2 |  | P-1 Line Item Number / Title: F01600 / F-16 |  |  | Modification Number / Title: 704050 / Digital Radar Warning Receiver (RWR) |  |
| ID Code (A=Service Ready, B=Not Service Ready) : B |  |  | MDAP/MAIS Code: |  |  |  |
| Models of Systems Affected: F-16 | Modification Type: Capability Improvement |  |  | Related RDT\&E PEs: 0207133F |  |  |
| Financial Plan | Prior Years | FY 2020 | FY 2021 | FY 2022 Base | FY 2022 OCO | FY 2022 Total |
|  | $\begin{gathered} \text { Qty (Each) I } \\ \text { Total Cost (\$ M) } \end{gathered}$ | $\begin{gathered} \text { Oty (Each) I } \\ \text { Total Cost (\$ M) } \end{gathered}$ | $\begin{gathered} \text { Qty (Each) I } \\ \text { Total Cost (\$ M) } \end{gathered}$ | $\begin{gathered} \text { Oty (Each) I } \\ \text { Total Cost (\$ M) } \end{gathered}$ | $\begin{gathered} \text { Qty (Each) I } \\ \text { Total Cost (\$ M) } \end{gathered}$ | $\begin{gathered} \text { Oty (Each) I } \\ \text { Total Cost (\$ M) } \end{gathered}$ |
| RDT\&E PE \# |  |  |  |  |  |  |
| 0207133F | 20176.282 | - 10.001 | 8/48.126 | - 163.222 | - 1- | - 163.222 |
| Procurement |  |  |  |  |  |  |
| Modification Item 1 of 1: Digital RWR |  |  |  |  |  |  |
| A Kits |  |  |  |  |  |  |
| Recurring |  |  |  |  |  |  |
| Digital RWR:INSTALL KITS Group A (Guard) | - 1 - | - 1- | 11/4.627 | 29/13.578 | 1 - | 29/13.578 |
| Subtotal: Recurring | 1 | - 1 - | - /4.627 | - /13.578 | - 1 - | - /13.578 |
| B Kits |  |  |  |  |  |  |
| Recurring |  |  |  |  |  |  |
| Digital RWR:EQUIPMENT Group B (Guard) | - 1- | - 1- | 11/9.849 | $29 / 26.983$ | - 1- | 29126.983 |
| Subtotal: Recurring | 1 | - 1- | - 19.849 | - 126.983 | - 1 | - 126.983 |
| Subtotal: Digital RWR | -1- | - $1 \cdot$ | - /14.476 | - /40.561 | - 1 - | - /40.561 |
| Subtotal: Procurement, All Modification Items | - / - | - / - | - /14.476 | - /40.561 | - 1 | - /40.561 |
| Support (All Modification Items) |  |  |  |  |  |  |
| GROUP A: TOTAL NONRECURRING | - 1- | - 10.000 | - 1 - | - 10.000 | - 1 - | - 10.000 |
| GROUP B: TOTAL NONRECURRING | - 1 - | - 10.000 | 1 | - 10.000 | -1- | - 10.000 |
| Change Orders | -1- | - 1 - | - 10.464 | - 11.200 | -1- | - 11.200 |
| OTHER GOVT | 1 | - 1 - | - 11.247 | - 12.038 | - 1 - | - 12.038 |
| Subtotal: Support | - $/$ - | - 10.000 | - /1.711 | - 13.238 | 1 | - 13.238 |
| Installation |  |  |  |  |  |  |
| Modification Item 1 of 1: Digital RWR | 1 | - 1 | 1 | $11 / 6.165$ | 1 - | $11 / 6.165$ |
| Subtotal: Installation | $1 \cdot$ | - 1 | 1 | 11/6.165 | . 1 | 11/6.165 |
| Total |  |  |  |  |  |  |
| Total Cost (Procurement + Support + Installation) | 0.000 | 0.000 | 16.187 | 49.964 | 0.000 | 49.964 |

## UNCLASSIFIED



Exhibit P-3a, Individual Modification: PB 2022 Air Force

## Appropriation / Budget Activity / Budget Sub Activity:

 3010F/05/2
## P-1 Line Item Number / Title: F01600 / F-16

## Date: May 2021

## Modification Number / Title:

866250 / F-16 TRAINING SYSTEMS

ID Code ( $A=$ Serice Ready, $B=$ Not Serice Ready) : B
MDAP/MAIS Code:

| Resource Summary | Prior Years | FY 2020 | FY 2021 | FY 2022 Base | FY 2022 OCO | FY 2022 Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Procurement Quantity (Units in Each) | - | - | - | - | - | - |
| Gross/Weapon System Cost (\$ in Millions) | 14.692 | 6.302 | 42.746 | 6.492 | 0.000 | 6.492 |
| Less PY Advance Procurement (\$ in Millions) | - | - | - | - | - | - |
| Net Procurement (P-1) (\$ in Millions) | 14.692 | 6.302 | 42.746 | 6.492 | 0.000 | 6.492 |
| Plus CY Advance Procurement (\$ in Millions) | - | - | - | - | - | - |
| Total Obligation Authority (\$ in Millions) | 14.692 | 6.302 | 42.746 | 6.492 | 0.000 | 6.492 |
| (The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.) |  |  |  |  |  |  |
| Initial Spares (\$ in Millions) | - | - | - | - | - | - |
| Gross/Weapon System Unit Cost (\$ in Millions) | - | - | - | - | - | - |

## Description

The F-16 Simulators Training Program (STP) simulators program includes Weapon Systems Trainers (WST), Unit Training Devices (UTD), Mission Training Centers (MTC), and Consolidated Unit-level Trainer (CUT). Which enable the USAF to exercise and train using the latest available F-16 Fighting Falcon capabilities available to all block configurations, while reducing the overall cost of training Armed Forces in support of the warfighter mission. In order to maintain concurrency with the F-16 Fighting Falcon, this funding supports the fielding and installation of simulator modifications (i.e. trainer unique/specific modifications such as Image Generators, upgraded visual projectors enhancing the out-the-window visual acuity, and hardware modifications supporting future Operational Flight Program (OFP) upgrades). Distributed Mission Systems (DMS) efforts to include removal of end-of-life software/hardware within simulators systems and move to a modular, common open system architecture that is sustainable and cyberresilient. Implement requirements and standards defined under the Simulator Common Architecture Requirements and Standards (SCARS) initiative. This funding also includes other government costs and PMA.

CUTs are medium-high fidelity training systems that facilitate F-16 CCIP Block 40/42 and 50/52 personnel training at all levels. A CUT consolidates the Weapons and Tactics Trainer (WTT) Advanced Sustainment Program (WASP) \& Aircrew Training Device (ATD) requirements while utilizing the MTC software baseline, so we are not duplicating upgrades; therefore, it shall have high-fidelity software. The CUT shall be capable of operating in a distributed training environment. This includes accurately modeling all F-16 weapon systems, subsystems, and ordnances. The Program will further acquire Contractor Logistic Support (CLS) to maintain the CUTs in a fully operational status and concurrent configuration. The CUT shall be capable of operating in a distributed training environment. This includes accurately modeling all F-16 weapon systems, subsystems, and ordnances. The Program will further acquire CLS to maintain the CUTs in a fully operational status and concurrent configuration.

This funding request will support potential DMS and obsolescence solutions, to include, if optimal, life of type buys or bridge buys limited to the program of record quantity.
Continue to provide funding for M Series OFP updates to the MTC which includes support from the 40th Test Evaluation Squadron.
Milestone/Development Status
The development of F -16 simulators upgrades will be a continual process based on the needs of each effort. Some efforts require RDT\&E funding for development, testing and integration; while other efforts require funding for only testing and integration.

| Secondary Distribution |  | FY 2020 | FY 2021 | $\begin{gathered} \text { FY } 2022 \\ \text { Base } \end{gathered}$ | $\begin{gathered} \text { FY } 2022 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \text { FY } 2022 \\ \text { Total } \end{gathered}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| AF | Quantity | - | - | - | - | - |
|  | Total Obligation Authority | 6.302 | 42.746 | 6.492 | - | 6.492 |
| Total: | Quantity | - | - | - | - |  |

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| Exhibit P-3a, Individual Modification: PB 2022 Air Force |  |  |  | Date: May 2021 <br> Modification Number / Title: 866250 / F-16 TRAINING SYSTEMS |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 2 | P-1 Line Item Number / Title:\|F01600 / F-16 |  |  |  |  |
| ID Code (A=Service Ready, $\mathrm{B}=$ Not Service Ready) : B |  | MDAP/MAIS Code |  |  |  |
| Secondary Distribution | FY 2020 | FY 2021 | $\begin{gathered} \text { FY } 2022 \\ \text { Base } \end{gathered}$ | $\begin{gathered} \hline \text { FY } 2022 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \hline \text { FY } 2022 \\ \text { Total } \end{gathered}$ |
| Secondary Distribution Total Obligation Authority | 6.302 | 42.746 | 6.492 | 20.000 | 6.492 |

## UNCLASSIFIED

| Exhibit P-3a, Individual Modification: PB 2022 Air Force |  |  |  |  | Date: May 2021 |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 2 |  | P-1 Line Item Number / Title: F01600 / F-16 |  |  | Modification Number / Title: 866250 / F-16 TRAINING SYSTEMS |  |
| ID Code (A=Service Ready, B=Not Service Ready) : B |  |  | MDAP/MAIS Code: |  |  |  |
| Models of Systems Affected: F-16 | Modification Type: Capability Improvement |  |  | Related RDT\&E PEs: 0207133F |  |  |
| Financial Plan | Prior Years | FY 2020 | FY 2021 | FY 2022 Base | FY 2022 OCO | FY 2022 Total |
|  | Qty (Each) I Total Cost (\$ M) | Qty (Each) I Total Cost (\$ M) | Qty (Each) I Total Cost (\$ M) | $\begin{gathered} \text { Qty (Each) I } \\ \text { Total Cost (\$ M) } \end{gathered}$ | Qty (Each) I Total Cost (\$ M) | Qty (Each) I Total Cost (\$ M) |
| RDT\&E PE \# |  |  |  |  |  |  |
| 0207133F | - 18.604 | - / 14.594 | - 14.469 | - /15.777 | - 1- | - /15.777 |
| Procurement |  |  |  |  |  |  |
| Modification Item 1 of 2: Consolidated Unit Trainer (CUT) |  |  |  |  |  |  |
| B Kits |  |  |  |  |  |  |
| Recurring |  |  |  |  |  |  |
| Consolidated Unit Trainer (CUT):EQUIPMENT Group B (Active) | - 1 - | 1 - | $39 / 39.946$ | - 1 - | - 1- | - 1- |
| Subtotal: Recurring | - 1- | - 1- | - /39.946 | - 1- | - 1- | - 1- |
| Subtotal: Consolidated Unit Trainer (CUT) | - / - | - / - | - /39.946 | - / - | - / - | - / - |
| Modification Item 2 of 2: Trainer/Simulator kits |  |  |  |  |  |  |
| B Kits |  |  |  |  |  |  |
| Recurring |  |  |  |  |  |  |
| Trainer/Simulator kits:EQUIPMENT Group B (Active) | $26 / 14.692$ | 5/6.302 | 5/2.800 | 5/6.492 | - 1- | 5/6.492 |
| Subtotal: Recurring | - /14.692 | - 16.302 | - 12.800 | - 16.492 | - 1- | - 16.492 |
| Subtotal: Trainer/Simulator kits | - /14.692 | - 16.302 | - /2.800 | - 16.492 | - 1- | - 16.492 |
| Subtotal: Procurement, All Modification Items | - /14.692 | - /6.302 | - /42.746 | - /6.492 | - / - | - 16.492 |
| Installation |  |  |  |  |  |  |
| Modification Item 1 of 2: Consolidated Unit Trainer (CUT) | - 1- | 1 - | $39 / 0.000$ | - 1 - | - 1- | - 1- |
| Subtotal: Installation | - 1- | - 1 - | $39 / 0.000$ | - 1- | - 1- | - 1- |
| Total |  |  |  |  |  |  |
| Total Cost (Procurement + Support + Installation) | 14.692 | 6.302 | 42.746 | 6.492 | 0.000 | 6.492 |

## UNCLASSIFIED



UNCLASSIFIED


| Appropriation / Budget Activity / Budget Sub Activity: |
| :--- |
| 3010F: Aircraft Procurement, Air Force / BA 05: Modification of Inservice Aircraft / |
| BSA 2: Tactical Aircraft |

## P-1 Line Item Number / Title: <br> F02200 / F-22A

| ID Code (A=Service Ready, B=Not Service Ready): | Program Elements for Code B Items: 0207138F | Other Related Program Elements: 0207138F |
| :--- | :--- | :--- | :--- |

## Line Item MDAP/MAIS Code: N/A

| Resource Summary | Prior Years | FY 2020 | FY 2021 | $\begin{gathered} \text { FY } 2022 \\ \text { Base } \end{gathered}$ | $\begin{gathered} \text { FY } 2022 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \text { FY } 2022 \\ \text { Total } \end{gathered}$ | FY 2023 | FY 2024 | FY 2025 | FY 2026 | To Complete | Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Procurement Quantity (Units in Each) | - | - | - | - | - | - | - | - | - | - | - |  |
| Gross/Weapon System Cost (\$ in Millions) | 2,060.532 | 189.047 | 357.586 | 424.722 | - | 424.722 | - | - | - | - | - | - |
| Less PY Advance Procurement (\$ in Millions) | 0.000 | - | - | - | - | - | - | - | - | - | - | - |
| Net Procurement (P-1) (\$ in Millions) | 2,060.532 | 189.047 | 357.586 | 424.722 | - | 424.722 | - | - | - | - | - | - |
| Plus CY Advance Procurement (\$ in Millions) | 0.000 | - | - | - | - | - | - | - | - | - | - | - |
| Total Obligation Authority (\$ in Millions) | 2,060.532 | 189.047 | 357.586 | 424.722 | - | 424.722 | - | - | - | - | - | - |
| (The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.) |  |  |  |  |  |  |  |  |  |  |  |  |
| Initial Spares (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Flyaway Unit Cost (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Unit Cost (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |

## Description:




 capabilities.


 practices.



 necessary to ensure continued aircrew safety and mission effectiveness.

Funding for the exhibit contained in Program (PE) 0207138F.
 missions, domestic emergency responses, and providing military support to civil authorities.

The FY2022 funding request was reduced by $\$ 31.720$ million to account for the availability of prior year execution balances

## UNCLASSIFIED

Page 1 of 19
P-1 Line \#32
Volume 2-157

## UNCLASSIFIED

| Exhibit P-40, Budget Line Item Justification: PB 2022 Air Force |  |  |  |  |  |  |  | Date: May 2021 |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: <br> 3010F: Aircraft Procurement, Air Force / BA 05: Modification of Inservice Aircraft / <br> BSA 2: Tactical Aircraft |  |  |  |  | P-1 Line Item Number / Title:F02200 / F-22A |  |  |  |  |  |
| ID Code (A=Service Ready, B=Not Service Ready): |  |  | Program Elements for Code B Items: 0207138F |  |  |  | Other Related Program Elements: 0207138F |  |  |  |
| Line Item MDAP/MAIS Code: N/A |  |  |  |  |  |  |  |  |  |  |
| Secondary Distribution |  | FY 2020 | FY 2021 | FY 2022 Base | $\begin{gathered} \text { FY } 2022 \\ \text { OCO } \end{gathered}$ | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 |
| AF | Quantity | - | - | - | - | - | - | - | - | - |
|  | Total Obligation Authority | 184.248 | 346.822 | 414.049 | - | 414.049 | - | - | - | - |
| AFNG | Quantity | - | - | - | - | - | - | - | - | - |
|  | Total Obligation Authority | 4.799 | 10.764 | 10.673 | - | 10.673 | - | - | - | - |
| Total: <br> Secondary Distribution | Quantity | - | - | - | - | - | - | - | - | - |
|  | Total Obligation Authority | 189.047 | 357.586 | 424.722 | - | 424.722 | - | - | - | - |

Exhibit P-40, Budget Line Item Justification: PB 2022 Air Force
Date: May 2021
Appropriation / Budget Activity / Budget Sub Activity:
3010F: Aircraft Procurement, Air Force / BA 05: Modification of Inservice Aircraft /
BSA 2: Tactical Aircraft

## P-1 Line Item Number / Title:

F02200 / F-22A
BSA 2: Tactical Aircraft

| ID Code (A=Service Ready, B=Not Service Ready): |  |  | Program Elements for Code B Items: 0207138F |  |  |  | Other Related Program Elements: 0207138F |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Line Item MDAP/MAIS Code: N/A |  |  |  |  |  |  |  |  |  |  |
| Exhibits Schedule |  |  |  |  | Prior Years | FY 2020 | FY 2021 | FY 2022 Base | FY 2022 OCO | FY 2022 Total |
| Exhibit Type | Title* | Subexhibits | $\begin{aligned} & \text { ID } \\ & \text { CD } \end{aligned}$ | MDAP/ MAIS Code | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) |
| P-40a*** | F22014 / F119 Engine Modifications (Other) |  |  |  | - 183.024 | - 14.847 | - /4.861 | - /4.981 | - | - $/ 4.981$ |
| P-40a*** | F22022 / Structures Retrofit Plan (Service Life Extension) |  |  |  | - 1275.192 | - 10.000 | - 1 - | - 1 - | - 1 - | - 1 - |
| P-40a*** | F22027 / Crypto Modernization (Capability Improvement) |  |  |  | - / 12.220 | - 14.259 | - 12.854 | 1 | - 1 - | - 1 - |
| P-40a*** | F22030 / Mode 5 Identification Friend or Foe (IFF) (Capability Improvement) |  |  |  | / 48.596 | 1 - | 1 | - 10.000 | - 1 | - 10.000 |
| P-3a | 1/ Reliability and Maintainability Program (Reliability \& Maintainability) |  | A |  | - /1,461.470 | - / 53.568 | - 168.839 | - /153.006 | - 10.000 | - /153.006 |
| P-3a | 2 / Link 16 (Capability Improvement) |  | A |  | - 186.229 | - / 46.031 | - /153.883 | - $/ 52.702$ | - 10.000 | - 152.702 |
| P-3a | 3 / Trainers Modernization (Safety) |  | A |  | 193.801 | - 131.340 | - 14.866 | - / 17.208 | - 10.000 | - /17.208 |
| P-3a | 4 / Sensor Enhancement (Capability Improvement) |  | B |  | - 1 | - 149.002 | - /122.283 | - / 196.825 | - 10.000 | - / 196.825 |
| P-40 | Total Gross/Weapon System Cost |  |  |  | - 12,060.532 | - / 189.047 | - 1357.586 | - 1424.722 | - 1 - | - 1424.722 |

*** Although this is an Exhibit P-40a item, the actual exhibit is not included since all of the required information for this item is already being shown here.
*Title represents 1) the Number / Title for Items; 2) the Number / Title [DODIC] for Ammunition; and/or 3) the Number / Title (Modification Type) for Modifications
Note: Totals in this Exhibit P-40 set may not be exact or sum exactly due to rounding.

## Justification:

Modifications requesting FY22 funding are as follows: F119 Engine Modifications (Other); Trainers Modernization (Safety); Reliability and Maintainability Program (Reliability \& Maintainability); Link 16 (Capability Improvement); and Sensor Enhancement (Capability Improvement). Further details are contained in the P-3A's.

Exhibit P-3a, Individual Modification: PB 2022 Air Force

## Appropriation / Budget Activity / Budget Sub Activity:

 3010F/05/2
## Date: May 2021

## Modification Number / Title:

1 / Reliability and Maintainability Program

| ID Code (A=Service Ready, $B=$ Not Sevice Ready : A | MDAP/MAIS Code: |
| :--- | :--- |


| Resource Summary | Prior Years | FY 2020 | FY 2021 | FY 2022 Base | FY 2022 OCO | FY 2022 Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Procurement Quantity (Units in Each) | - | - | - | - | - | - |
| Gross/Weapon System Cost (\$ in Millions) | 1,461.470 | 53.568 | 68.839 | 153.006 | 0.000 | 153.006 |
| Less PY Advance Procurement (\$ in Millions) | - | - | - | - | - | - |
| Net Procurement (P-1) (\$ in Millions) | 1,461.470 | 53.568 | 68.839 | 153.006 | 0.000 | 153.006 |
| Plus CY Advance Procurement (\$ in Millions) | - | - | - | - | - | - |
| Total Obligation Authority (\$ in Millions) | 1,461.470 | 53.568 | 68.839 | 153.006 | 0.000 | 153.006 |
| (The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.) |  |  |  |  |  |  |
| Initial Spares (\$ in Millions) | - | - | - | - | - | - |
| Gross/Weapon System Unit Cost (\$ in Millions) | - | - | - | - | - | - |

## Description:


 costs.


 mission effectiveness. RAMP modifications currently include individual projects which are retrofitted onto aircraft based on aircraft downtime opportunities.

 the Pacific Deterrence Initiative (PDI) for increasing joint force lethality and maintaining a credible deterrent in theater. FY22 749 end items are being modified with PDI funding.



 RAMP retrofit kits have component level improvement metrics and contribute to the overall reliability, availability, maintainability and safety of the F-22.
 necessary to support combat capability.

 install on the fleet.


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| Exhibit P-3a, Individual Modification: PB 2022 Air Force |  |  |  |  | Date: May 2021Modification Number / Title:1 / Reliability and Maintainability Program |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity 3010F / 05 / 2 | / Budget Sub Activity: | P-1 Line Item Number / Title: F02200 / F-22A |  |  |  |  |
| ID Code (A=Service Ready, B=Not Service Ready) : A |  |  | MDAP/MAIS Code: |  |  |  |
| RAMP Mod funds may be used for mission support costs to include, but not limited to, travel, computer costs, and other miscellaneous contract support. <br> Milestone/Development Status <br> Installation of RAMP mods continues for 11 vetted \& approved solutions in FY22-6 Reliability/1 Availability/4 Maintainability improvements. |  |  |  |  |  |  |
| Secondary Distribution |  | FY 2020 | FY 2021 | $\begin{gathered} \text { FY } 2022 \\ \text { Base } \end{gathered}$ | $\begin{aligned} & \text { FY } 2022 \\ & \text { OCO } \end{aligned}$ | $\begin{gathered} \text { FY } 2022 \\ \text { Total } \end{gathered}$ |
| AF | Quantity | - | - | - | - | - |
|  | Total Obligation Authority | 49.449 | 59.468 | 143.486 | 6 | 143.486 |
| AFNG | Quantity | - | - | - | - | - |
|  | Total Obligation Authority | 4.119 | 9.371 | 9.520 | 20 | 9.520 |
| Total: <br> Secondary Distribution | Quantity | - | - |  | - | - |
|  | Total Obligation Authority | 53.568 | 68.839 | 153.006 | 6 | 153.006 |

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| Exhibit P-3a, Individual Modification: PB 2022 Air Force |  |  |  |  | Date: May 2021 |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 2 |  | P-1 Line Item Number / Title: F02200 / F-22A |  |  | Modification Number / Title: <br> 1 / Reliability and Maintainability Program |  |
| ID Code (A=Service Ready, B=Not Service Ready) : A |  |  | MDAP/MAIS Code: |  |  |  |
| Models of Systems Affected: F-22 | Modification Type: Reliability \& Maintainability |  |  | Related RDT\&E PEs: 0207138F |  |  |
|  | Prior Years | FY 2020 | FY 2021 | FY 2022 Base | FY 2022 OCO | FY 2022 Total |
| Financial Plan | $\begin{gathered} \text { Qty (Each) I } \\ \text { Total Cost (\$ M) } \end{gathered}$ | $\begin{gathered} \text { Qty (Each) I } \\ \text { Total Cost (\$M) } \end{gathered}$ | $\begin{gathered} \text { Qty (Each) I } \\ \text { Total Cost (\$ M) } \end{gathered}$ | $\begin{gathered} \text { Qty (Each) I } \\ \text { Total Cost (\$M) } \end{gathered}$ | $\begin{gathered} \text { Qty (Each) I } \\ \text { Total Cost (\$ M) } \end{gathered}$ | $\begin{gathered} \text { Qty (Each) I } \\ \text { Total Cost (\$ M) } \end{gathered}$ |
| Procurement |  |  |  |  |  |  |
| Modification Item 1 of 1: RAMP Kits |  |  |  |  |  |  |
| B Kits |  |  |  |  |  |  |
| Recurring |  |  |  |  |  |  |
| RAMP Kits:EQUIPMENT Group B (Active) | 8,643/742.005 | 527/21.552 | 643/29.102 | 653/97.067 | - 1 - | 653/97.067 |
| RAMP Kits:EQUIPMENT Group B (Guard) | 1,298/71.903 | 7612.773 | $94 / 3.430$ | 96/3.500 | - 1- | 96/3.500 |
| Subtotal: Recurring | - 1813.908 | - /24.325 | - /32.532 | - /100.567 | 1 | - /100.567 |
| Subtotal: RAMP Kits | - 1813.908 | - /24.325 | - /32.532 | - /100.567 | - 1- | - /100.567 |
| Subtotal: Procurement, All Modification Items | - 1813.908 | - /24.325 | - /32.532 | - /100.567 | - 1 | - /100.567 |
| Support (All Modification Items) |  |  |  |  |  |  |
| Change Orders | - 1 - | - 120.788 | - 1. | - $1-$ | - 1- | -1- |
| OTHER GOVT | - 142.277 | - 15.763 | - 15.469 | - 15.471 | - 1- | - 15.471 |
| Subtotal: Support | - /42.277 | - /26.551 | - 15.469 | - 15.471 | - 1- | - / 5.471 |
| Installation |  |  |  |  |  |  |
| Modification Item 1 of 1: RAMP Kits | 9,941/605.285 | $603 / 2.692$ | $737 / 30.838$ | $749 / 46.968$ | - 1 - | 749 / 46.968 |
| Subtotal: Installation | 9,941/605.285 | 603/2.692 | 737/30.838 | 749/46.968 | - 1 - | 749/46.968 |
| Total |  |  |  |  |  |  |
| Total Cost (Procurement + Support + Installation) | 1,461.470 | 53.568 | 68.839 | 153.006 | 0.000 | 153.006 |

## UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2022 Air Force Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 2

## P-1 Line Item Number / Title F02200 / F-22A

Date: May 2021

## Modification Number / Title:

1 / Reliability and Maintainability Program

ID Code (A=Service Ready, B=Not Service Ready) : A
MDAP/MAIS Code:
Modification Item 1 of 1: RAMP Kits


Method of Implementation: Depot

|  | Prior Years | FY 2020 | FY 2021 | FY 2022 Base | FY 2022 OCO | FY 2022 Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Installation Cost | Qty (Each) I Total Cost (\$ M) | Qty (Each) I Total Cost (\$ M) | Qty (Each) I Total Cost (\$ M) | Qty (Each) I <br> Total Cost (\$ M) | Qty (Each) I Total Cost (\$ M) | Qty (Each) I Total Cost (\$ M) |
| Prior Years | 8,214 / 522.398 | - 1 - | - 1 - | - 1 - | - 1 - | - 1 |
| FY 2020 | - 1 - | $392 / 1.346$ | - 1 - | - 1 | - 1 - | 1 |
| FY 2021 | 1 - | - 1 - | $506 / 23.412$ | 1 | -1 | 1 |
| FY 2022 | - 1- | 1 - | - 1- | $514 / 34.270$ | -1- | $514 / 34.270$ |
| Total | 8,214 / 522.398 | 392 / 1.346 | $506 / 23.412$ | 514 / 34.270 | - 1 - | $514 / 34.270$ |

UNCLASSIFIED

| Exhibit P-3a, Individual Modification: PB 2022 Air Force |  |  |  |  |  |  |  |  | Date: May 2021 |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 2 |  |  |  | P-1 Line Item Number / Title: F02200 / F-22A |  |  |  |  | Modification Number / Title: <br> 1 / Reliability and Maintainability Program |  |  |  |
| ID Code (A=Service Ready, B=Not Service Ready) : A |  |  |  |  |  | MDAP/MAIS Code: |  |  |  |  |  |  |
| Modification Item 1 of 1: RAMP Kits |  |  |  |  |  |  |  |  |  |  |  |  |
| Installation Information |  |  |  |  |  |  |  |  |  |  |  |  |
| Method of Implementation: Depot |  |  |  |  |  |  |  |  |  |  |  |  |
| Installation Schedule |  |  |  |  |  |  |  |  |  |  |  |  |
| PYS | FY 2020 |  |  |  | FY 2021 |  |  |  | FY 2022 |  |  |  |
|  | Q1 | Q2 | Q3 | Q4 | Q1 | Q2 | Q3 | Q4 | Q1 | Q2 | Q3 | Q4 |
| In 8,214 <br> Out  | 98 | 98 | 98 | 98 | 126 | 126 | 127 | 127 | 128 | 128 | 129 | 129 |
| Out 8,214 | 98 | 98 | 98 | 98 | 126 | 126 | 127 | 127 | 128 | 128 | 129 | 129 |

Exhibit P-3a, Individual Modification: PB 2022 Air Force

## Appropriation / Budget Activity / Budget Sub Activity:

 3010F/05/2
## P-1 Line Item Number / Title: F02200 / F-22A

## Date: May 2021

## Modification Number / Title:

ID Code (A=Serice Ready, $B=$ Not Service Ready) : A
MDAP/MAIS Code:


## Description:



 capabilities.


 same hardware being procured for that capability. Installation for Link 16 and MIDS/JTRS items occurs at the same time so installation costs are combined in the Link 16 installation cost line.

 the Pacific Deterrence Initiative (PDI) for increasing joint force lethality and maintaining a credible deterrent in theater. In FY22 10 end items are being modified with PDI funding.


 practices. Due to contracting limitations, funding for installations is required prior to 1 October each year to avoid work stoppages and maintain aircraft modification schedules.

Milestone/Development Status
 decision was approved in Q4 FY19.

| Secondary Distribution |  | FY 2020 | FY 2021 | FY 2022 <br> Base | $\begin{gathered} \text { FY } 2022 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \text { FY } 2022 \\ \text { Total } \end{gathered}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| AF | Quantity | - | - | - | - | - |
|  | Total Obligation Authority | 46.031 | 153.883 | 52.702 | - | 52.702 |

UNCLASSIFIED

| Exhibit P-3a, Individual Modification: PB 2022 Air Force |  |  |  |  | Date: May 2021 <br> Modification Number / Title: 2 / Link 16 |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation 3010F / 05 / 2 | y / Budget Sub Activity: | P-1 Line Item Number / Title: F02200 / F-22A |  |  |  |  |
| ID Code (A=Service Ready, B=Not Service Ready) : A |  |  | MDAP/MAIS Code: |  |  |  |
| Secondary Distribution |  | FY 2020 | FY 2021 | $\begin{gathered} \hline \text { FY } 2022 \\ \text { Base } \end{gathered}$ | $\begin{gathered} \text { FY } 2022 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \text { FY } 2022 \\ \text { Total } \end{gathered}$ |
| Total: | Quantity | - | $\cdot$ | - | - | - |
| Secondary D | Total Obligation Authority | 46.031 | 153.883 | 52.702 | 20.000 | 52.702 |

## UNCLASSIFIED

| Exhibit P-3a, Individual Modification: PB 2022 Air Force |  |  |  |  | Date: May 2021 |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 2 |  | P-1 Line Item Number / Title: F02200 / F-22A |  |  | Modification Number / Title: 2 / Link 16 |  |
| ID Code (A=Service Ready, B=Not Service Ready) : A |  |  | MDAP/MAIS Code: |  |  |  |
| Models of Systems Affected: F-22 | Modification Type: Capability Improvement |  |  | Related RDT\&E PEs: 0207138F |  |  |
|  | Prior Years | FY 2020 | FY 2021 | FY 2022 Base | FY 2022 OCO | FY 2022 Total |
| Financial Plan | $\begin{gathered} \text { Qty (Each) I } \\ \text { Total Cost (\$ M) } \\ \hline \end{gathered}$ | $\begin{gathered} \text { Qty (Each)I } \\ \text { Total Cost (\$M) } \end{gathered}$ | $\begin{gathered} \text { Qty (Each) I } \\ \text { Total Cost }(\$ M) \end{gathered}$ | $\begin{gathered} \text { Qty (Each) I } \\ \text { Total Cost }(\$ M) \end{gathered}$ | $\begin{gathered} \text { Qty (Each)I } \\ \text { Total Cost (\$M) } \\ \hline \end{gathered}$ | $\begin{gathered} \text { Qty (Each) I } \\ \text { Total Cost }(\$ M) \\ \hline \end{gathered}$ |
| Procurement |  |  |  |  |  |  |
| Modification Item 1 of 2: Link 16 |  |  |  |  |  |  |
| B Kits |  |  |  |  |  |  |
| Recurring |  |  |  |  |  |  |
| Link 16:EQUIPMENT Group B (Active) | 24/36.036 | - 1 - | 108/121.461 | 10/11.710 | -1. | 10/11.710 |
| Subtotal: Recurring | - 136.036 | - 1 - | - /121.461 | - /11.710 | - 1- | - /11.710 |
| Subtotal: Link 16 | - /36.036 | - 1- | - /121.461 | - /11.710 | - 1 - | - 111.710 |
| Modification Item 2 of 2: MIDS/JTRS |  |  |  |  |  |  |
| B Kits |  |  |  |  |  |  |
| Recurring |  |  |  |  |  |  |
| MIDS/JTRS:EQUIPMENT Group B (Active) | 56/45.502 | 66/37.715 | 5/3.663 | - 1- | - 1- | - 1- |
| Subtotal: Recurring | - /45.502 | - /37.715 | - 13.663 | - 1 | - / - | - 1- |
| Subtotal: MIDS/JTRS | - /45.502 | - /37.715 | - 13.663 | - / - | - 1 | - 1 - |
| Subtotal: Procurement, All Modification Items | - 181.538 | - /37.715 | - /125.124 | - /11.710 | - 1- | - /11.710 |
| Support (All Modification Items) |  |  |  |  |  |  |
| Change Orders | - 10.000 | - 16.773 | - $1 \cdot$ | - 18.522 | - 1. | - 18.522 |
| OTHER GOVT | - 14.691 | - 11.543 | - /10.248 | - /10.176 | - 1 | - /10.176 |
| Subtotal: Support | - /4.691 | - 18.316 | - /10.248 | - /18.698 | - 1. | - /18.698 |
| Installation |  |  |  |  |  |  |
| Modification Item 1 of 2: Link 16 | - 1 - | - 1- | 48/18.511 | 55/22.294 | - 1 - | 55/22.294 |
| Modification Item 2 of 2: MIDS/JTRS | - 1- | $1-$ | 4810.000 | 55/0.000 | - 1- | 5510.000 |
| Subtotal: Installation | - 1- | - 1- | 96/18.511 | 110/22.294 | - 1 - | 110/22.294 |
| Total |  |  |  |  |  |  |
| Total Cost (Procurement + Support + Installation) | 86.229 | 46.031 | 153.883 | 52.702 | 0.000 | 52.702 |

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Exhibit P-3a, Individual Modification: PB 2022 Air Force

## Appropriation / Budget Activity / Budget Sub Activity:

 3010F / 05 / 2ID Code (A=Service Ready, B=Not Service Ready) : A

## P-1 Line Item Number / Title: <br> F02200 / F-22A

Date: May 2021

## Modification Number / Title:

3 / Trainers Modernization

| MDAP/MAIS Code: |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Resource Summary | Prior Years | FY 2020 | FY 2021 | FY 2022 Base | FY 2022 OCO | FY 2022 Total |
| Procurement Quantity (Units in Each) | - | - | - | - | - | - |
| Gross/Weapon System Cost (\$ in Millions) | 93.801 | 31.340 | 4.866 | 17.208 | 0.000 | 17.208 |
| Less PY Advance Procurement (\$ in Millions) | - | - | - | - | - | - |
| Net Procurement (P-1) (\$ in Millions) | 93.801 | 31.340 | 4.866 | 17.208 | 0.000 | 17.208 |
| Plus CY Advance Procurement (\$ in Millions) | - | - | - | - | - | - |
| Total Obligation Authority (\$ in Millions) | 93.801 | 31.340 | 4.866 | 17.208 | 0.000 | 17.208 |
| (The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.) |  |  |  |  |  |  |
| Initial Spares (\$ in Millions) | - | - | - | - | - | - |
| Gross/Weapon System Unit Cost (\$ in Millions) | - | - | - | - | - | - |

## Description:

This effort modifies training devices to simulate existing and future F-22 operational capabilities and maintains alignment with the latest fleet aircraft configuration. The modifications enable 4 -ship Mission Training Centers (MTC), Weapons and Tactics Trainers (WTT), and Maintenance Training Devices (MTD) to provide realistic training. Modifications also include reliability, availability, and maintainability improvements. There are currently 71 training devices ( 45 Pilot and 26 Maintenance). Modifications are done by contractor field teams.

F-22 Maintenance and Pilot training assets have lagged behind modernization efforts with operational aircraft. The increase in requested funding from FY21 to FY22 is focused on streamlining training qualifications and eliminating negative training due to inaccurate representations of current aircraft.

Determined attempts to deny US air superiority from peer threats within the Indo-Pacific region have driven a Congressional Interest Item (CII), Emergency and Special Program (ESP) Code G3, to highlight investments and activities in FY22 and future years that will build forces that are lethal, resilient, ready, and postured to respond quickly and effectively against aggression. The F-22 Raptor is a key component of the Pacific Deterrence Initiative (PDI) for increasing joint force lethality and maintaining a credible deterrent in theater. In FY22 32 end items are being modified with PDI funding

Trainers Modernization funds may be used for mission support costs to include, but not limited to, travel, computer costs, and other miscellaneous contract support.
Milestone/Development Status
Development conducted in conjunction with Ready Aircrew Program tasking memorandums.

| Secondary Distribution |  | FY 2020 | FY 2021 | $\begin{gathered} \text { FY } 2022 \\ \text { Base } \end{gathered}$ | $\begin{gathered} \hline \text { FY } 2022 \\ \text { OcO } \end{gathered}$ | $\begin{gathered} \hline \text { FY } 2022 \\ \text { Total } \end{gathered}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| AF | Quantity | - | - | - | - | - |
|  | Total Obligation Authority | 31.340 | 4.866 | 17.208 | - | 17.208 |
| Total: <br> Secondary Distribution | Quantity | - | - | - | - | - |
|  | Total Obligation Authority | 31.340 | 4.866 | 17.208 | 0.000 | 17.208 |

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## Date: May 2021

## Modification Number / Title:

4 / Sensor Enhancement

Exhibit P-3a, Individual Modification: PB 2022 Air Force

## Appropriation / Budget Activity / Budget Sub Activity:

 3010F/05/2ID Code (A=Service Ready, B=Not Service Ready) : B

## P-1 Line Item Number / Title: F02200 / F-22A

MDAP/MAIS Code:

| Resource Summary | Prior Years | FY 2020 | FY 2021 | FY 2022 Base | FY 2022 OCO | FY 2022 Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Procurement Quantity (Units in Each) | - | - | - | - | - | - |
| Gross/Weapon System Cost (\$ in Milions) | - | 49.002 | 122.283 | 196.825 | 0.000 | 196.825 |
| Less PY Advance Procurement (\$ in Millions) | - | - | - | - | - | - |
| Net Procurement (P-1) (\$ in Millions) | - | 49.002 | 122.283 | 196.825 | 0.000 | 196.825 |
| Plus CY Advance Procurement (\$ in Millions) | - | - | - | - | - | - |
| Total Obligation Authority (\$ in Millions) | - | 49.002 | 122.283 | 196.825 | 0.000 | 196.825 |
| (The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.) |  |  |  |  |  |  |
| Initial Spares (\$ in Millions) | - | - | - | - | - | - |
| Gross/Weapon System Unit Cost (\$ in Millions) | - | - | - | - | - | - |

## Description:

 capabilities to Block 30/35 F-22 aircraft to maintain air dominance and preserve first look, first shot, first kill capability. Funding includes 143 kits and installation.


 practices. Due to contracting limitations, funding for installations is required prior to 1 October each year to avoid work stoppages and maintain aircraft modification schedules.

 the Pacific Deterrence Initiative (PDI) for increasing joint force lethality and maintaining a credible deterrent in theater. FY21-FY22 55 end items are being modified/procured with PDI funding.

Sensor Enhancement Mod funds may be used for mission support costs including, but not limited to, travel, computer costs, and other miscellaneous contract support.

Milestone/Development Status
 through FY21 culminating in a flight test demonstration and production decision in FY22.

| Secondary Distribution |  | FY 2020 | FY 2021 | $\begin{gathered} \text { FY } 2022 \\ \text { Base } \end{gathered}$ | $\begin{gathered} \text { FY } 2022 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \text { FY } 2022 \\ \text { Total } \end{gathered}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| AF | Quantity | - | - | - | - | - |
|  | Total Obligation Authority | 49.002 | 122.283 | 196.825 | - | 196.825 |
| Total: <br> Secondary Distribution | Quantity | - | - | - | - | - |
|  | Total Obligation Authority | 49.002 | 122.283 | 196.825 | 0.000 | 196.825 |

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Appropriation / Budget Activity / Budget Sub Activity:
3010F: Aircraft Procurement, Air Force / BA 05: Modification of Inservice Aircraft /
BSA 2: Tactical Aircraft

## P-1 Line Item Number / Title:

F03500 / F-35 Modifications

ID Code (A=Service Ready, B=Not Service Ready): B
Program Elements for Code B Items: 0207142F
Other Related Program Elements: 0604800F, 0604840F
Line Item MDAP/MAIS Code: 198

| Resource Summary | Prior <br> Years | FY 2020 | FY 2021 | $\begin{gathered} \text { FY } 2022 \\ \text { Base } \end{gathered}$ | $\begin{gathered} \text { FY } 2022 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \text { FY } 2022 \\ \text { Total } \end{gathered}$ | FY 2023 | FY 2024 | FY 2025 | FY 2026 | To Complete | Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Procurement Quantity (Units in Each) | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Cost (\$ in Millions) | 836.087 | 329.590 | 295.832 | 304.135 | - | 304.135 | - | - | - | - | - | - |
| Less PY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Net Procurement (P-1) (\$ in Millions) | 836.087 | 329.590 | 295.832 | 304.135 | - | 304.135 | - | - | - | - | - | - |
| Plus CY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Total Obligation Authority (\$ in Millions) | 836.087 | 329.590 | 295.832 | 304.135 | - | 304.135 | - | - | - | - | - | - |
| (The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.) |  |  |  |  |  |  |  |  |  |  |  |  |
| Initial Spares (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Flyaway Unit Cost (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Unit Cost (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |

## Description:



 in FY2024. Planned proposals are on track from the prime contractor to award the material procurement in FY2022.


 changes are accomplished by field and depot retrofit.
 process and incorporate modifications to sustain and improve F-35A system operations. Concurrency changes are implemented to coincide with resources and aircraft availability.
 bring early production aircraft and integrated systems to a common fleet configuration as fielded capabilities evolve over the course of the F-35 program.
 of hardware and software to a Lot 17 production configuration, and Structural Life Limited Group 2 (SLLP2) upgrades.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES
FY2022 begins the initial procurement of Lot 15 hardware to include Technical Refresh 3. FY2022 procures capacity tooling for Lot 16 capabilities.


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| Exhibit P-40, Budget Line Item Justification: PB 2022 Air Force | Date: May 2021 |
| :--- | :--- | :--- |


| Appropriation / Budget Activity / Budget Sub Activity: | $\begin{array}{l}\text { P-1 Line Item Number / Title: } \\ \text { 3010F: Aircraft Procurement, Air Force / BA 05: Modification of Inservice Aircraft / }\end{array}$ |
| :--- | :--- |
| F03500 / F-35 Modifications |  |

BSA 2: Tactical Aircraft
ID Code (A=Service Ready, B=Not Service Ready): B
Program Elements for Code B Items: 0207142F
Other Related Program Elements: 0604800F, 0604840F

## Line Item MDAP/MAIS Code: 198

Funding for this exhibit contained in PE 0207142F.
The FY2022 funding request was reduced by $\$ 16.153$ million to account for the availability of prior year execution balances
BY funding totals include $\$ 181.135 \mathrm{M}$ requested for the Pacific Defense Initiative.

Exhibit P-40, Budget Line Item Justification: PB 2022 Air Force
Appropriation / Budget Activity / Budget Sub Activity:
3010F: Aircraft Procurement, Air Force / BA 05: Modification of Inservice Aircraft /
BSA 2: Tactical Aircraft

## P-1 Line Item Number / Title: <br> F03500 / F-35 Modifications

BSA 2: Tactical Aircraft

| ID Code (A=Service Ready, B=Not Service Ready): B |  | Program Elements for Code B Items: 0207142F |  |  |  |  | Other Related Program Elements: 0604800F, 0604840F |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Line Item MDAP/MAIS Code: 198 |  |  |  |  |  |  |  |  |  |  |
| Exhibits Schedule |  |  |  |  | Prior Years | FY 2020 | FY 2021 | FY 2022 Base | FY 2022 OCO | FY 2022 Total |
| Exhibit Type | Title* | Subexhibits | $\begin{aligned} & \text { ID } \\ & \text { CD } \end{aligned}$ | MDAP/ MAIS Code | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) |
| P-3a | $1 /$ Block 3i LRIP 2-5 Upgrade (Capability Improvement) |  | B |  | - 1208.635 | - 18.171 | - 10.000 | - 10.000 | - 10.000 | - 10.000 |
| P-3a | $2 /$ Block 3F LRIP 2-5 Upgrade (Capability Improvement) |  | B |  | - 19.341 | - 10.250 | - 10.000 | - 10.000 | - 10.000 | - 10.000 |
| P-3a | 3 / Block 3F LRIP 6-8 Upgrade (Capability Improvement) |  | B |  | - 10.056 | - 12.800 | - 10.000 | - 10.000 | - 10.000 | - 10.000 |
| P-3a | 4 / Concurrency (Other) |  | B |  | - 1613.443 | - 1206.324 | - /135.576 | - 11.060 | - 10.000 | - 11.060 |
| P-3a | 5 / Correction of Deficiencies (Other) |  | B |  | - 14.612 | - 192.965 | - /122.194 | - /122.518 | - 10.000 | - /122.518 |
| P-3a | 6 / Block 4 Modifications (Capability Improvement) |  | B |  | - 1 - | - / 19.080 | - / 38.062 | - /180.557 | - 10.000 | - / 180.557 |
| P-40 | Total Gross/Weapon System Cost |  |  |  | - 1836.087 | - 1329.590 | - 1295.832 | - 1304.135 | - 1 - | - 1304.135 |

*Title represents 1) the Number / Title for Items; 2) the Number / Title [DODIC] for Ammunition; and/or 3) the Number / Title (Modification Type) for Modifications.
Note: Totals in this Exhibit P-40 set may not be exact or sum exactly due to rounding.

## Justification:

Basis for FY2022 budget request: F-35A Total Active Inventory is 338 aircraft based on production lots 1-13. FY 2022 funding increases for kits to support Structural Life Limited Parts Group 2 (SLLP2) continuation and incremental modification efforts for Block 4 capabilities, correction of deficiencies, propulsion, reliability and maintainability modifications in support of global F-35A operations.

| Exhibit P-3a, Individual Modification: PB 2022 Air Force |  |  |  |  | Date: May 2021 |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity 3010F / 05 / 2 | P-1 Line Item Number / Title: F03500 / F-35 Modifications |  |  |  | Modification Number / Title: 1 / Block 3i LRIP 2-5 Upgrade |  |
| ID Code (A=Service Ready, $\mathrm{B}=$ Not Service Ready) : B | MDAP/MAIS Code: |  |  |  |  |  |
| Resource Summary | Prior Years | FY 2020 | FY 2021 | FY 2022 Base | FY 2022 OCO | FY 2022 Total |
| Procurement Quantity (Units in Each) | - | - | - | - | - | - |
| Gross/Weapon System Cost (\$ in Millions) | 208.635 | 8.171 | 0.000 | 0.000 | 0.000 | 0.000 |
| Less PY Advance Procurement (\$ in Millions) | - | - | - | - | - | - |
| Net Procurement (P-1) (\$ in Millions) | 208.635 | 8.171 | 0.000 | 0.000 | 0.000 | 0.000 |
| Plus CY Advance Procurement (\$ in Millions) | - | - | - | - | - | - |
| Total Obligation Authority (\$ in Millions) | 208.635 | 8.171 | 0.000 | 0.000 | 0.000 | 0.000 |
| (The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.) |  |  |  |  |  |  |
| Initial Spares (\$ in Millions) | - | - | - | - | - | - |
| Gross/Weapon System Unit Cost (\$ in Millions) | - | - | - | - | - | - |

## Description:

The block upgrade program retrofits United States Air Force F-35A aircraft and integrated systems procured under the LRIP contracts to a final Block 3 F configuration. The retrofits to enable the final Block 3 F configuration are comprised of hardware and software. The hardware per aircraft includes new radar modules, new Integrated Core Processor modules and rack, and new electronic warfare modules. Aircraft need to be updated to a final Block 3 F configuration to avoid cost associated with maintaining multiple configurations of aircraft at operating locations. Some will require multiple modifications to reach the final Block 3F configuration.

These modifications focus on upgrading Blocks 1B, 2A, and 2B aircraft from LRIPs $2-5$ to a Block 3 i configuration. Block 3 i is a stepping stone to the Block $3 F$ configuration. It includes the procurement of hardware for the current Block 3i configuration. The parts include new radar modules, new Integrated Core Processor (ICP) modules and rack, and new Electronic Warfare (EW) modules. The Gen III Helmet will also be introduced as part of the Block 3i upgrade. This effort includes tooling and test equipment for Military Service Depots to support the execution of the Block Upgrade program.

Milestone/Development Status
Not Applicable - No funding requested in FY22

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| Exhibit P-3a, Individual Modification: PB 2022 Air Force |  |  |  |  | Date: May 2021 |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 2 |  | P-1 Line Item Number / Title: F03500 / F-35 Modifications |  |  | Modification Number / Title: 1 / Block 3i LRIP 2-5 Upgrade |  |
| ID Code (A=Service Ready, B=Not Service Ready) : B |  |  | MDAP/MAIS Code: |  |  |  |
| Models of Systems Affected: F-35A | Modification Type: Capability Improvement |  |  | Related RDT\&E PEs: 0604800F |  |  |
|  | Prior Years | FY 2020 | FY 2021 | FY 2022 Base | FY 2022 OCO | FY 2022 Total |
| Financial Plan | $\begin{gathered} \text { Qty (Each) I } \\ \text { Total Cost (\$ M) } \\ \hline \end{gathered}$ | $\begin{gathered} \text { Qty (Each) I } \\ \text { Total Cost (\$M) } \\ \hline \end{gathered}$ | $\begin{gathered} \text { Qty (Each) I } \\ \text { Total Cost (\$ M) } \end{gathered}$ | $\begin{gathered} \text { Qty (Each) I } \\ \text { Total Cost (\$ M) } \\ \hline \end{gathered}$ | $\begin{gathered} \text { Qty (Each) I } \\ \text { Total Cost (\$ M) } \\ \hline \end{gathered}$ | $\begin{gathered} \text { Qty (Each) I } \\ \text { Total Cost }(\$ M) \\ \hline \end{gathered}$ |
| Procurement |  |  |  |  |  |  |
| Modification Item 1 of 1: Block 3i |  |  |  |  |  |  |
| B Kits |  |  |  |  |  |  |
| Recurring |  |  |  |  |  |  |
| Block 3i:EQUIPMENT Group B (Active) | 46/158.409 | - 1- | - 1. | - 1- | - 1- | 1. |
| Subtotal: Recurring | - /158.409 | - 1- | - 1- | -1- | -1- | - 1- |
| Subtotal: Block 3i | - /158.409 | - 1 - | - 1- | - 1 - | - 1 - | - 1 - |
| Subtotal: Procurement, All Modification Items | - /158.409 | - 1- | -1. | - 1- | - 1- | - 1. |
| Support (All Modification Items) |  |  |  |  |  |  |
| GROUP B: TOTAL NONRECURRING | - 10.000 | - 1 - | - 1- | - 1- | - 1- | $1-$ |
| SIM/TRAINER | 24/12.984 | 1 - | - 1 - | - 1- | - 1 - | - 1. |
| Mod of Spares | - 130.027 | 1 - | - 1 - | -1- | -1- | 1 |
| Subtotal: Support | 24/43.011 | - 1. | - 1. | - 1. | -1. | - 1. |
| Installation |  |  |  |  |  |  |
| Modification Item 1 of 1: Block 3i | 3317.215 | 13/8.171 | - 1 - | - 1- | - $1-$ | - 1 - |
| Subtotal: Installation | 33/7.215 | 13/8.171 | - 1- | - 1- | - 1- | - 1- |
| Total |  |  |  |  |  |  |
| Total Cost (Procurement + Support + Installation) | 208.635 | 8.171 | 0.000 | 0.000 | 0.000 | 0.000 |

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| Exhibit P-3a, Individual Modification: PB 2022 Air Force |  |  |  |  | Date: May 2021 |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity 3010F / 05 / 2 | P-1 Line Item Number / Title: F03500 / F-35 Modifications |  |  |  | Modification Number / Title: 2 I Block 3F LRIP 2-5 Upgrade |  |
| ID Code (A=Service Ready, $\mathrm{B}=$ Not Service Ready) : B | MDAP/MAIS Code: |  |  |  |  |  |
| Resource Summary | Prior Years | FY 2020 | FY 2021 | FY 2022 Base | FY 2022 OCO | FY 2022 Total |
| Procurement Quantity (Units in Each) | - | - | - | - | - | - |
| Gross/Weapon System Cost (\$ in Millions) | 9.341 | 0.250 | 0.000 | 0.000 | 0.000 | 0.000 |
| Less PY Advance Procurement (\$ in Millions) | - | - | - | - | - | - |
| Net Procurement (P-1) (\$ in Millions) | 9.341 | 0.250 | 0.000 | 0.000 | 0.000 | 0.000 |
| Plus CY Advance Procurement (\$ in Millions) | - | - | - | - | - | - |
| Total Obligation Authority (\$ in Millions) | 9.341 | 0.250 | 0.000 | 0.000 | 0.000 | 0.000 |
| (The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.) |  |  |  |  |  |  |
| Initial Spares (\$ in Millions) | - | - | - | - | - | - |
| Gross/Weapon System Unit Cost (\$ in Millions) | - | - | - | - | - | - |

## Description:

The block upgrade program retrofits United States Air Force F-35A aircraft and integrated systems procured under the LRIP contracts to a final Block 3 F configuration. The retrofits to enable the final Block 3 F configuration are comprised of hardware and software. The hardware per aircraft includes new radar modules, new Integrated Core Processor modules and rack, and new electronic warfare modules. Aircraft need to be updated to a final Block 3F configuration to avoid cost associated with maintaining multiple configurations of aircraft at operating locations. Some will require multiple modifications to reach the final Block 3F configuration.

This effort (MN-F3514) focuses on the Block 3F configuration upgrade effort for 46 LRIP 2-5 aircraft and integrated systems. All of the LRIP 2-5 F-35A aircraft receiving the Block 3F software under this modification will have already received the Block 3 i hardware under MNF3513. This effort purchases all necessary software and installation labor to ensure LRIP 2-5 F-35A aircraft are upgraded to a Block $3 F$ baseline for full warfighting capability.

Milestone/Development Status
The Block 3F modifications and retrofits program will complete its final aircraft induction by September 2021. Modifications of the final aircraft delayed one year due to repairs necessary after AF-40 incident.

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| Exhibit P-3a, Individual Modification: PB 2022 Air Force |  |  |  |  | Date: May 2021 |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 2 |  | P-1 Line Item Number / Title: F03500 / F-35 Modifications |  |  | Modification Number / Title: 2 I Block 3F LRIP 2-5 Upgrade |  |
| ID Code (A=Service Ready, B=Not Service Ready) : B |  |  | MDAP/MAIS Code: |  |  |  |
| Models of Systems Affected: F-35A | Modification Type: Capability Improvement |  |  | Related RDT\&E PEs: 0604800F |  |  |
|  |  |  |  | FY 2022 Base | FY 2022 OCO | FY 2022 Total |
| Financial Plan | $\begin{gathered} \text { Qty (Each) I } \\ \text { Total Cost (\$ M) } \\ \hline \end{gathered}$ | $\begin{gathered} \text { Qty (Each)I } \\ \text { Total Cost (\$M) } \\ \hline \end{gathered}$ | $\begin{gathered} \text { Qty (Each) I } \\ \text { Total Cost }(\$ M) \end{gathered}$ | $\begin{gathered} \text { Qty (Each) I } \\ \text { Total Cost }(\$ M) \\ \hline \end{gathered}$ | $\begin{gathered} \text { Qty (Each)I } \\ \text { Total Cost (\$ M) } \\ \hline \end{gathered}$ | $\begin{gathered} \text { Qty (Each) I } \\ \text { Total Cost }(\$ M) \\ \hline \end{gathered}$ |
| Procurement |  |  |  |  |  |  |
| Modification Item 1 of 1: Block 3F |  |  |  |  |  |  |
| B Kits |  |  |  |  |  |  |
| Recurring |  |  |  |  |  |  |
| Block 3F:EQUIPMENT Group B (Active) | $46 / 9.337$ | - 10.250 | - 1- | - 1 - | - 1- | - 1 - |
| Subtotal: Recurring | - 19.337 | - 10.250 | - / - | - / - | - 1- | -1- |
| Subtotal: Block 3F | - 19.337 | - 10.250 | - 1- | - 1 - | - 1 - | -1- |
| Subtotal: Procurement, All Modification Items | - 19.337 | - 10.250 | - 1- | - 1- | -1. | - 1- |
| Support (All Modification Items) |  |  |  |  |  |  |
| SIM/TRAINER | 4/0.004 | - 1 - | - 1 - | - 1 - | - 1 - | - 1- |
| Subtotal: Support | 4/0.004 | 1 | 1- | - 1 - | 1 - | 1 - |
| Installation |  |  |  |  |  |  |
| Modification Item 1 of 1: Block 3F | $33 / 0.000$ | 13/0.000 | 1 - | - 1 - | 1 - | - 1 |
| Subtotal: Installation | 33/0.000 | 13/0.000 | -1- | -1- | -1. | -1- |
| Total |  |  |  |  |  |  |
| Total Cost (Procurement + Support + Installation) | 9.341 | 0.250 | 0.000 | 0.000 | 0.000 | 0.000 |

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| Exhibit P-3a, Individual Modification: PB 2022 Air Force |  |  |  |  | Date: May 2021 |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity 3010F / 05 / 2 | P-1 Line Item Number / Title: F03500 / F-35 Modifications |  |  |  | Modification Number / Title: 3 / Block 3F LRIP 6-8 Upgrade |  |
| ID Code (A=Service Ready, $\mathrm{B}=$ Not Service Ready) : B | MDAP/MAIS Code: |  |  |  |  |  |
| Resource Summary | Prior Years | FY 2020 | FY 2021 | FY 2022 Base | FY 2022 OCO | FY 2022 Total |
| Procurement Quantity (Units in Each) | - | - | - | - | - | - |
| Gross/Weapon System Cost (\$ in Millions) | 0.056 | 2.800 | 0.000 | 0.000 | 0.000 | 0.000 |
| Less PY Advance Procurement (\$ in Millions) | - | - | - | - | - | - |
| Net Procurement (P-1) (\$ in Millions) | 0.056 | 2.800 | 0.000 | 0.000 | 0.000 | 0.000 |
| Plus CY Advance Procurement (\$ in Millions) | - | - | - | - | - | - |
| Total Obligation Authority (\$ in Millions) | 0.056 | 2.800 | 0.000 | 0.000 | 0.000 | 0.000 |
| (The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.) |  |  |  |  |  |  |
| Initial Spares (\$ in Millions) | - | - | - | - | - | - |
| Gross/Weapon System Unit Cost (\$ in Millions) | - | - | - | - | - | - |

## Description:

The block upgrade program retrofits United States Air Force F-35A aircraft and integrated systems procured under the LRIP contracts to a final Block 3 F configuration. The retrofits to enable the final Block 3 F configuration are comprised of hardware and software. The hardware per aircraft includes new radar modules, new Integrated Core Processor modules and rack, and new electronic warfare modules. Aircraft need to be updated to a final Block 3F configuration to avoid cost associated with maintaining multiple configurations of aircraft at operating locations. Some will require multiple modifications to reach the final Block 3F configuration.

These modifications focus on the Block 3F configuration upgrade effort for 56 LRIP 6-8 F-35A aircraft and integrated systems. All of the LRIP 6-8 F-35A aircraft receiving the Block 3 F software under this modification will have already received the Block 3i hardware under MN-F3513. This effort purchases all necessary software and installation labor to ensure LRIP 6-8 F-35A aircraft are upgraded to a Block $3 F$ baseline for full warfighting capability.

Milestone/Development Status
The Block 3F modifications and retrofits program will complete its final aircraft induction by September 2021. Modifications of the final aircraft delayed one year due to repairs necessary after AF-40 incident.

## UNCLASSIFIED

| Exhibit P-3a, Individual Modification: PB 2022 Air Force |  |  |  |  |  | Date: May 2021 |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 2 |  | P-1 Line Item Number / Title: F03500 / F-35 Modifications |  |  |  | Modification Number / Title: 3 / Block 3F LRIP 6-8 Upgrade |  |  |
| ID Code (A=Service Ready, B=Not Service Ready) : B |  |  | MDAP/MAIS Code: |  |  |  |  |  |
| Models of Systems Affected: F-35A |  Modification Type: Capability Improvement  <br> Prior Years FY 2020 FY 2021 |  |  | Related RDT\&E PEs: 0604800F |  |  |  |  |
|  |  |  |  | FY 2022 Base |  | FY 2022 OCO | FY 2022 Total |  |
| Financial Plan | $\begin{gathered} \text { Qty (Each)I } \\ \text { Total Cost (\$M) } \\ \hline \end{gathered}$ | $\begin{gathered} \text { Qty (Each) I } \\ \text { Total Cost }(\$ M) \end{gathered}$ | $\begin{gathered} \text { Qty (Each)I } \\ \text { Total Cost (\$M) } \\ \hline \end{gathered}$ | $\begin{gathered} \text { Qty (Each) I } \\ \text { Total Cost }(\$ M) \\ \hline \end{gathered}$ |  | $\begin{gathered} \text { Qty (Each) I } \\ \text { Total Cost (\$ M) } \end{gathered}$ | $\begin{gathered} \text { Qty (Each) I } \\ \text { Total Cost (\$ M) } \\ \hline \end{gathered}$ |  |
| Procurement |  |  |  |  |  |  |  |  |
| Modification Item 1 of 1: Block 3F (2) |  |  |  |  |  |  |  |  |
| B Kits |  |  |  |  |  |  |  |  |
| Recurring |  |  |  |  |  |  |  |  |
| Block 3F:EQUIPMENT Group B (Active) | 0/0.056 | 56/2.800 | - 1- |  | 1 - | -1- |  | - 1 - |
| Subtotal: Recurring | - 10.056 | - 12.800 | - 1- |  | 1 - | - / - |  | - 1 - |
| Subtotal: Block 3F (2) | - 10.056 | - 12.800 | - 1- |  | / - | - 1- |  | 1 |
| Subtotal: Procurement, All Modification Items | - 10.056 | - 12.800 | - 1- |  | 1. | -1. |  | -1. |
| Support (All Modification Items) |  |  |  |  |  |  |  |  |
| SUPPORT-EQUIP | - 10.000 | - 1. | - 1 - |  | 1 - | - 1- |  | - 1 - |
| Subtotal: Support | - 10.000 | - 1- | - 1 - |  | 1 - | - 1- |  | - 1 - |
| Installation |  |  |  |  |  |  |  |  |
| Modification Item 1 of 1: Block 3F (2) | - $1-$ | $56 / 0.000$ | - $1-$ |  | 1. | - 1. |  | 1 |
| Subtotal: Installation | - 1- | 56/0.000 | - 1- |  | 1 - | -1- |  | -1. |
| Total |  |  |  |  |  |  |  |  |
| Total Cost (Procurement + Support + Installation) | 0.056 | 2.800 | 0.000 |  | 0.000 | 0.000 |  | 0.000 |

## UNCLASSIFIED



Exhibit P-3a, Individual Modification: PB 2022 Air Force

## Appropriation / Budget Activity / Budget Sub Activity:

 3010F/05/2
## P-1 Line Item Number / Title: F03500 / F-35 Modifications

Date: May 2021

## Modification Number / Title:

4 / Concurrency

ID Code ( $A=$ Serice Ready, $B=$ Not Service Ready) : B
MDAP/MAIS Code:

| Resource Summary | Prior Years | FY 2020 | FY 2021 | FY 2022 Base | FY 2022 OCO | FY 2022 Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Procurement Quantity (Units in Each) | - | - | - | - | - | - |
| Gross/Weapon System Cost (\$ in Millions) | 613.443 | 206.324 | 135.576 | 1.060 | 0.000 | 1.060 |
| Less PY Advance Procurement (\$ in Millions) | - | - | - | - | - | - |
| Net Procurement (P-1) (\$ in Millions) | 613.443 | 206.324 | 135.576 | 1.060 | 0.000 | 1.060 |
| Plus CY Advance Procurement (\$ in Millions) | - | - | - | - | - | - |
| Total Obligation Authority (\$ in Millions) | 613.443 | 206.324 | 135.576 | 1.060 | 0.000 | 1.060 |
| (The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.) |  |  |  |  |  |  |
| Initial Spares (\$ in Millions) | - | - | - | - | - | - |
| Gross/Weapon System Unit Cost (\$ in Millions) | - | - | - | - | - | - |

## Description:


This effort funds retrofits due to concurrency changes to correct deficiencies tied to the Joint Contract Specification and discovered after formal acceptance (DD-250) of the last aircraft in a given production lot. This includes modifications required to extend aircraft service life currently limited by low-life parts and relieve capability limitations driven by concurrency of production with development.

The concurrency funding line will procure concurrency modifications approved at the Joint Configuration Control Board (JCCB) and prioritized within the Modifications Requirements Planning Document (MRPD). The MRPD is vetted and approved by the Services and Partners every six months to ensure that the list accurately reflects existing requirements as well as emerging issues. Per-kit costs will vary for each modification being implemented, and in some cases, will also vary by aircraft from different LRIP lots to implement an individual modification.
 and Depot Field Teams for incorporation of modifications.

FY2021 is the transition from Concurrency to Correction of Deficiencies with the exception of Digital Tuner Insertion Program (DTIP) modification. The DTIP program modifies 148 aircraft consisting of Lots 5 -10 to a Lot 11 configuration. Currently Lot $5-10$ aircraft are equipped with Digital Radio Frequency Memory, which is not compatible with the Technical Refresh 3 (TR-3) upgrade program as part of Block 4 . Lot 11 DTIP is required to transition aircraft to TR-3 and Lot 15 configuration and directly enables the training fleet to be standardized with the combat coded aircraft fleet.

Milestone/Development Status
For the F-35 program, the emergence of new concurrency issues is expected to phase out with the completion of SDD. FY 2021 is the transition point from Concurrency to Correction of Deficiencies.
FY20 started the Non-Recurring engineering for Digital Tuner Insertion Program with material procurement in 3rd Quarter FY20.
Due to the delay in contract award and material lead times, FY2022 install funding was removed and requirements shifted into FY2023/FY2024 to support the updated schedule. Funds realigned to Block 4 Kit procurement.

| Exhibit P-3a, Individual Modification: PB 2022 Air Force |  |  |  |  | Date: May 2021 |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 2 |  | P-1 Line Item Number / Title: F03500 / F-35 Modifications |  |  | Modification Number / Title: 4 / Concurrency |  |
| ID Code (A=Service Ready, B=Not Service Ready) : B |  |  | MDAP/MAIS Code: |  |  |  |
| Models of Systems Affected: F-35A | Modification Type: Other |  | Related RDT\&E PEs: 0604800F |  |  |  |
|  | Prior Years | FY 2020 | FY 2021 | FY 2022 Base | FY 2022 OCO | FY 2022 Total |
| Financial Plan | $\begin{gathered} \text { Qty (Each) I } \\ \text { Total Cost (\$ M) } \end{gathered}$ | $\begin{gathered} \text { Qty (Each) I } \\ \text { Total Cost (\$ M) } \end{gathered}$ | $\begin{gathered} \text { Qty (Each) I } \\ \text { Total Cost (\$ M) } \end{gathered}$ | $\begin{gathered} \text { Qty (Each) I } \\ \text { Total Cost (\$ M) } \end{gathered}$ | $\begin{gathered} \text { Qty (Each) I } \\ \text { Total Cost (\$ M) } \end{gathered}$ | $\begin{gathered} \text { Qty (Each) I } \\ \text { Total Cost }(\$ M) \end{gathered}$ |
| Procurement |  |  |  |  |  |  |
| Modification Item 1 of 2: Concurrency |  |  |  |  |  |  |
| A Kits |  |  |  |  |  |  |
| Recurring |  |  |  |  |  |  |
| Concurrency:INSTALL KITS Group A (Active) | - 1560.660 | - 115.000 | - 1- | - 10.000 | - 1- | 10.000 |
| Subtotal: Recurring | - /560.660 | - /15.000 | - 1- | - 10.000 | - 1- | - 10.000 |
| Subtotal: Concurrency | - / 560.660 | - /15.000 | - /- | - 10.000 | - 1- | - 10.000 |
| Modification Item 2 of 2: Digital Tuner Insertion Program (DTIP) |  |  |  |  |  |  |
| A Kits |  |  |  |  |  |  |
| Recurring |  |  |  |  |  |  |
| Digital Tuner Insertion Program (DTIP):INSTALL KITS Group A (Active) | - 1- | 78/156.000 | 70/121.483 | - 1- | - 1- | - 1- |
| Subtotal: Recurring | 1 | - /156.000 | - /121.483 | - 1 - | - 1 - | - 1 - |
| Subtotal: Digital Tuner Insertion Program (DTIP) | $1-$ | - /156.000 | - /121.483 | - 1- | - 1 - | - 1- |
| Subtotal: Procurement, All Modification Items | - $/ 560.660$ | - /171.000 | - /121.483 | - 10.000 | - / - | - 10.000 |
| Support (All Modification Items) |  |  |  |  |  |  |
| ICS-Labor | - 138.691 | - 128.539 | - 12.763 | - 11.060 | - 1- | - 11.060 |
| OTHER GOVT | - 114.092 | - 16.785 | - 1- | - 10.000 | - 1- | - 10.000 |
| Subtotal: Support | - 152.783 | - 135.324 | - 12.763 | - 11.060 | - 1- | - 11.060 |
| Installation |  |  |  |  |  |  |
| Modification Item 2 of 2: Digital Tuner Insertion Program (DTIP) | 1. | 1 - | $39 / 11.330$ | 1. | - 1 - | - 1 - |
| Subtotal: Installation | - 1 - | - 1 - | 39 /11.330 | - $1-$ | - 1 - | - 1 - |
| Total |  |  |  |  |  |  |
| Total Cost (Procurement + Support + Installation) | 613.443 | 206.324 | 135.576 | 1.060 | 0.000 | 1.060 |

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Exhibit P-3a, Individual Modification: PB 2022 Air Force

## Appropriation / Budget Activity / Budget Sub Activity:

 3010F/05/2
## P-1 Line Item Number / Title: F03500 / F-35 Modifications

## Date: May 2021

## Modification Number / Title:

5 / Correction of Deficiencies

ID Code ( $A=$ Sernice Ready, $B=$ Not Serice Ready) : B
MDAP/MAIS Code:

| Resource Summary | Prior Years | FY 2020 | FY 2021 | FY 2022 Base | FY 2022 OCO | FY 2022 Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Procurement Quantity (Units in Each) | - | - | - | - | - | - |
| Gross/Weapon System Cost (\$ in Millions) | 4.612 | 92.965 | 122.194 | 122.518 | 0.000 | 122.518 |
| Less PY Advance Procurement (\$ in Millions) | - | - | - | - | - | - |
| Net Procurement (P-1) (\$ in Millions) | 4.612 | 92.965 | 122.194 | 122.518 | 0.000 | 122.518 |
| Plus CY Advance Procurement (\$ in Millions) | - | - | - | - | - | - |
| Total Obligation Authority (\$ in Millions) | 4.612 | 92.965 | 122.194 | 122.518 | 0.000 | 122.518 |
| (The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.) |  |  |  |  |  |  |
| Initial Spares (\$ in Millions) | - | - | - | - | - | - |
| Gross/Weapon System Unit Cost (\$ in Millions) | - | - | - | - | - | - |

## Description:




 detailed breakout of support costs is as follows:
 (\$1.177M).

- The Group A Nonrecurring cost shown (\$1.675) represents a combination of SLLP2 NRE (\$0.670M) and SLLP3 NRE (\$1.005M).
- The Group B Nonrecurring cost shown (\$4.564M) represents CoD NRE
- The OTHER GOVT cost shown (\$2.660M) includes support costs for Propulsion and RMIP.

FY2021 control will be reduced by $\$ 20 \mathrm{M}$ for the congressional add for RMIP and will be complete once the internal transfer to APN-1 is complete.


 the identified deficiencies.


 continued fleet operations that will require additional non-recurring engineering and tooling.

Exhibit P-3a, Individual Modification: PB 2022 Air Force

## Appropriation / Budget Activity / Budget Sub Activity:

 3010F/05/2
## Date: May 2021

## Modification Number / Title:

5/ Correction of Deficiencies

ID Code (A=Service Ready, B=Not Service Ready) : B

## MDAP/MAIS Code:

Prior to the transition to the Correction of Deficiencies OSIP in FY20, previous years SLLP2 ECP Non-Recurring Engineering and material procurement completed under the USAF concurrency budget line. Eight of the eighteen engineering change proposals have completed engineering and initial material procurement for FY22 installs.

SLLP2 inductions will start in Fiscal Year 2021 with 84 USAF F-35A inductions. The retrofit ECP effectively of SLLP modification deficiencies vary, ranging from Lot 1 through Lot 13 USAF aircraft that will undergo installations.

Additionally, this OSIP covers the SLLP2 follow-on program known as SLLP3. SLLP3 is the follow on effort to resolve life limits from 4,000 to 8,000 hours, enabling the aircraft to meet full life of 8,000 flight hours. The SLLP3 program starts Non-Recurring Engineering in FY2022.

Beyond SLLP 2 and 3, there are currently over 200+ identified deficiency modifications throughout the CTOL fleet. Funds from this OSIP is required to complete non-recurring engineering, material procurement, and installation.

Funding under this OSIP in FY22 is required to support Structural Life Limited Mods material, installation labor and associated support costs across two US organic Depots for F-35A inductions. This includes modifications management, depot site support, and depot over and above activities.

- FY22 Depot level installs consist of SLLP2 including F-35A FS 402 UPPER FRAME DURABILITY LIFE , F-35A CENTER FUSELAGE F2 FLOOR DURABILITY LIFE, F-35A- FS 503 FRAME, LIFE LIMITEDMOD, F-35A FS402 RHS FRAME SHORT LIFE (MOD), F-35A LHS METALLIC FWD CHINE LONGERON CRACKS-MOD, F-35A UPPER INLET DUCT LONGERON DURABILITY (MOD), F-35A VT FWD SHEAR FITTING BUSH WEAR MOD and F-35A, FS 518 BULKHEAD, LIFE LIMITED - MOD
- FY22 COD Depot installs consist of F-35A Dual Flex Coupling, GEN 3 Helmet Mounted Display System, Gun Forward Mount Muzzle Sleeve Nut Plate, Horizontal Elevated Temp Coating, Nacelle Engine Liner Insulation material, FS346 CTOL Chem Film in Hoist Region, Update to Antenna Switch Unit; Weapons Bay Door Drive Flex Cable Redesign, 270V Battery Installation Retrofit, CM Door Control Correction, CTOL Engine Feed Tube Contact with 496 Bulkhead, and CTOL Fuel Dumpt Performance Improvement.


## Propulsion

This Propulsion Program is established for the correction of engine related readiness degraders impacting F-35 CTOL Reliability Maintainability and Availability (RM\&A), production deficiencies, obsolescence, and reduction of life-cycle costs. These modifications (MODs) will be accomplished by field or depot retrofit and implemented to coincide with resources and aircraft availability. In order to meet the goal of increasing readiness, the propulsion systems must be modified as critical RM\&A issues are identified. Funds will be used to manage, prepare, process and incorporate Engineering Change Proposals. The reliability and readiness initiatives included in the proposed OSIP are projected to have a significant positive impact to the F-35 CTOL F-135 engine.

Propulsion programs include but are not limited to Lockwireless Fittings, Thrust Recovery, Electronic Ice Protection System (EIPS), Multi-attitude Deaerator (MAD) Gearbox redesign, Main Fuel Throttle Valve (MFTV) Bellows/Electro-Hydraulic Servo Valve (EHSV), Gearbox Idler; Nozzle Wear Tilt Improvement, and Heaterless Nosecone Elimination.

Reliability and Maintainability
This Operational Safety Improvement Program is established for the correction of readiness degraders impacting F-35 CTOL cost per flight hour, Reliability Maintainability and Availability (RM\&A), obsolescence, and reduction of life-cycle costs. These modifications will be accomplished by field mod team and implemented to coincide with resources and aircraft availability.

In order to meet the goal of increasing readiness, the airframe and integrated systems must be modified as critical RM\&A issues are identified. Funds will be used to manage, prepare, process and incorporate Engineering Change Proposals (ECPs). Individual ECPs will be listed once identified. The reliability and readiness initiatives included in the proposed OSIP are projected to have a significant positive impact to the F-35 CTOL Aircraft platform. Reliability and maintainability efforts started in FY2019 resulted from the Secretary of Defense's $80 \%$ Mission Capability mandate. These efforts are used to close the gap to $80 \%$ or further improve the reliability and maintainability of the weapon system.

Milestone/Development Status
Due to non-recurring engineering delays under SDD, FY22 efforts shifted material funding to installs based on the latest Depot Flow Plan for both Gov't and contractor install efforts. Also, the program broke out additional categories for support for both SLLP efforts and COD.

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| Exhibit P-3a, Individual Modification: PB 2022 Air Force | Date: May 2021 |  |
| :--- | :--- | :--- |
| Appropriation / Budget Activity / Budget Sub Activity: <br> 3010F / 05 / 2 | P-1 Line Item Number / Title: <br> F03500 / F-35 Modifications | Modification Number / Title: <br> $5 /$ / Correction of Deficiencies |
| ID Code (A=Serice Ready, B=Not Serice Ready) : B | MDAP/MAIS Code: |  |

Material Kit cost differences from year to year for SLLP2/3 efforts reflect cost share ratio between the government and contractor. The program is still working to fully identify all SLLP3 remaining efforts and should understand the level of scope by December 2021.

Propulsion and Reliability and Maintainability modification efforts will transition out of Correction of Deficiencies and into their own modification lines in the FY23 budget submission.

Exhibit P-3a, Individual Modification: PB 2022 Air Force

## Appropriation / Budget Activity / Budget Sub Activity:

 3010F / 05 / 2
## P-1 Line Item Number / Title: F03500 / F-35 Modifications

Date: May 2021

## Modification Number / Title:

5/Correction of Deficiencies

ID Code (A=Service Ready, B=Not Service Ready) : B

| Models of Systems Affected: F-35A | Modification Type: Other |  |  | Related RDT\&E PEs: 0604800F |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Prior Years | FY 2020 | FY 2021 | FY 2022 Base | FY 2022 OCO | FY 2022 Total |
| Financial Plan | Qty (Each) I Total Cost (\$ M) | Qty (Each) I Total Cost (\$ M) | Qty (Each) I Total Cost (\$ M) | Qty (Each) I Total Cost (\$ M) | Qty (Each) I Total Cost (\$ M) | Qty (Each) I Total Cost (\$ M) |

Modification Item 1 of 24: 1) Correction of Deficiencies (roll-up \& install) [B-kits]
A Kits
Recurring

1) Correction of Deficiencies (roll-up \& install) [B-
kits]:INSTALL KITS Group A (Active)
Subtotal: Recurring
Subtotal: 1) Correction of Deficiencies (roll-up \& install)
[B-kits]
Modification Item 2 of 24: 1.1) CoD ECP-1383C1
VEHICLE MISSION COMPUTER UPGRADE

| B Kits |
| :--- |
| Recurring |
| 1.1) CoD ECP-1383C1 VEHICLE MISSION |
| COMPUTER UPGRADE:EQUIPMENT Group B |

Subtotal: Recurring
Subtotal: 1.1) CoD ECP-1383C1 VEHICLE MISSION
COMPUTER UPGRADE COMPUTER UPGRADE
Modification Item 3 of 24: 1.2) CoD ECP-0701 FULLY
QUALIFIED F-35A NOSE LANDING GEAR RETROFIT
B Kits

| Recurring |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1.2) CoD ECP-0701 FULLY QUALIFIED F-35A NOSE LANDING GEAR RETROFIT:EQUIPMENT Group B (Active) | 1 | 127 / 3.717 | 1 - | - 1 - | 1 - | 1 - |
| Subtotal: Recurring | - / - | - /3.717 | - / - | 1 | 1 | 1 |
| Subtotal: 1.2) CoD ECP-0701 FULLY QUALIFIED F-35A NOSE LANDING GEAR RETROFIT | 1 - | - /3.717 | / - | / - | / - | - / - |
| Modification Item 4 of 24: 1.3) CoD ECP-1008 MOORING RING RETROFIT |  |  |  |  |  |  |
| B Kits |  |  |  |  |  |  |
| Recurring |  |  |  |  |  |  |
| 1.3) CoD ECP-1008 MOORING RING RETROFIT:EQUIPMENT Group B (Active) | 1 | $359 / 9.552$ | - | - 1 - | 1 | 1 - |
| Subtotal: Recurring | / - | - /9.552 | / - | 1 | / - | - 1 |

Exhibit P-3a, Individual Modification: PB 2022 Air Force

## Appropriation / Budget Activity / Budget Sub Activity:

 3010F / 05/2Date: May 2021
Modification Number / Title:

5 / Correction of Deficiencies

ID Code (A=Service Ready, B=Not Service Ready) : B

## P-1 Line Item Number / Title: F03500 / F-35 Modifications

MDAP/MAIS Code:

| Models of Systems Affected: F-35A |  | Modification Type: Other |  | Related RDT\&E PEs: 0604800F |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Financial Plan | Prior Years | FY 2020 | FY 2021 | FY 2022 Base | FY 2022 OCO | FY 2022 Total |
|  | Qty (Each) I Total Cost (\$ M) | Qty (Each) I Total Cost (\$ M) | Qty (Each) I Total Cost (\$ M) | $\begin{aligned} & \text { Qty (Each) I } \\ & \text { Total Cost (\$ M) } \end{aligned}$ | $\begin{gathered} \text { Qty (Each) I } \\ \text { Total Cost (\$ M) } \\ \hline \end{gathered}$ | $\begin{aligned} & \text { Qty (Each) I } \\ & \text { Total Cost (\$ M) } \end{aligned}$ |
| Subtotal: 1.3) CoD ECP-1008 MOORING RING RETROFIT | - / - | - 19.552 | - / - | - / - | - 1 - | / - |
| Modification Item 5 of 24: 1.4) CoD ECP-1134 NOSE WHEEL STEERING MOTOR CRACKS |  |  |  |  |  |  |
| B Kits |  |  |  |  |  |  |
| Recurring |  |  |  |  |  |  |
| 1.4) CoD ECP-1134 NOSE WHEEL STEERING MOTOR CRACKS:EQUIPMENT Group B (Active) | - 1- | 281/7.537 | - 1- | - 1- | - 1 - | 1 - |
| Subtotal: Recurring | - 1 - | - 17.537 | - 1 - | - 1 - | - 1 - | - 1 - |
| Subtotal: 1.4) CoD ECP-1134 NOSE WHEEL STEERING MOTOR CRACKS | / - | - /7.537 | 1 - | - / - | / - | / |
| Modification Item 6 of 24: 2) Propulsion |  |  |  |  |  |  |
| A Kits |  |  |  |  |  |  |
| Recurring |  |  |  |  |  |  |
| 2) Propulsion:INSTALL KITS Group A (Active) | - 1- | - 1- | - 1- | $29 / 5.800$ | - 1- | $29 / 5.800$ |
| Subtotal: Recurring | - 1 - | - 1 - | - 1 - | - 15.800 | - 1 - | - 15.800 |
| Subtotal: 2) Propulsion | - 1- | - 1- | - 1 - | - /5.800 | - 1 - | - 15.800 |
| Modification Item 7 of 24: 3) Reliability and Maintainability |  |  |  |  |  |  |
| A Kits |  |  |  |  |  |  |
| Recurring |  |  |  |  |  |  |
| 3) Reliability and Maintainability:INSTALL KITS Group A (Active) | - 1- | - 1- | - 1- | $21 / 1.600$ | - 1 - | 21/1.600 |
| Subtotal: Recurring | - 1- | - 1- | - 1 - | - /1.600 | - 1- | - $/ 1.600$ |
| Subtotal: 3) Reliability and Maintainability | - / - | - / - | - 1- | - /1.600 | - / - | - 11.600 |
| Modification Item 8 of 24: 4) Structural Life Limited Parts (roll-up \& install) |  |  |  |  |  |  |
| A Kits |  |  |  |  |  |  |
| Recurring |  |  |  |  |  |  |
| 4) Structural Life Limited Parts (roll-up \& install):INSTALL KITS Group A (Active) | - 1- | 448/0.001 | $510 / 0.001$ | 331/0.001 | - 1 - | $331 / 0.001$ |
| Subtotal: Recurring | - 1 - | - 10.001 | - 10.001 | - 10.001 | - 1 - | - 10.001 |
| Subtotal: 4) Structural Life Limited Parts (roll-up \& install) | - / - | - 10.001 | - / 0.001 | - 10.001 | - 1 - | - 10.001 |


| Exhibit P-3a, Individual Modification: PB 2022 Air Force |  |  |  |  | Date: May 2021 |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 2 |  | P-1 Line Item Number / Title: F03500 / F-35 Modifications |  |  | Modification Number / Title: 5 / Correction of Deficiencies |  |
| ID Code (A=Service Ready, B=Not Service Ready) : B |  |  | MDAP/MAIS Code: |  |  |  |
| Models of Systems Affected: F-35AFinancial Plan | Modification Type: Other |  |  | Related RDT\&E PEs: 0604800F |  |  |
|  | Prior Years | FY 2020 | FY 2021 | FY 2022 Base | FY 2022 OCO | FY 2022 Total |
|  | $\begin{gathered} \text { Qty (Each) I } \\ \text { Total Cost (\$ M) } \end{gathered}$ | $\begin{gathered} \text { Qty (Each) I } \\ \text { Total Cost (\$ M) } \end{gathered}$ | $\begin{gathered} \text { Qty (Each) I } \\ \text { Total Cost (\$ M) } \\ \hline \end{gathered}$ | $\begin{gathered} \text { Qty (Each) I } \\ \text { Total Cost (\$ M) } \\ \hline \end{gathered}$ | $\begin{gathered} \text { Qty (Each) I } \\ \text { Total Cost (\$ M) } \\ \hline \end{gathered}$ | Qty (Each) ! <br> Total Cost (\$ M) |
| Modification Item 9 of 24: COMMON: Correction of Deficiencies: Equipment Group B |  |  |  |  |  |  |
| B Kits |  |  |  |  |  |  |
| Recurring |  |  |  |  |  |  |
| COMMON: Correction of Deficiencies: Equipment Group B:EQUIPMENT Group B (Active) | 1 - | 11.653 | - 10.245 | - 10.490 | 1 | 10.490 |
| Subtotal: Recurring | - 1- | - /1.653 | - 10.245 | - 10.490 | - 1 - | - 10.490 |
| Subtotal: COMMON: Correction of Deficiencies: Equipment Group B | 1 | - /1.653 | - 10.245 | - 10.490 | - 1 - | 10.490 |
| Modification Item 10 of 24: SLLP ECP-0335 FS503 FRAME |  |  |  |  |  |  |
| A Kits |  |  |  |  |  |  |
| Recurring |  |  |  |  |  |  |
| SLLP ECP-0335 FS503 FRAME:INSTALL KITS Group A (Active) | 100/1.388 | 1 - | - 1- | - 1. | 1. | 1 |
| Subtotal: Recurring | - /1.388 | - 1 - | - 1- | - 1 | - / - | - 1- |
| Subtotal: SLLP ECP-0335 FS503 FRAME | - /1.388 | - 1- | - 1- | - 1- | - 1- | - 1- |
| Modification Item 11 of 24: SLLP ECP-0428 FS402 RHS FRAME |  |  |  |  |  |  |
| A Kits |  |  |  |  |  |  |
| Recurring |  |  |  |  |  |  |
| SLLP ECP-0428 FS402 RHS FRAME:INSTALL KITS Group A (Active) | 80/0.032 | 25/0.010 | 25/0.010 | - 1- | - 1- | - 1 - |
| Subtotal: Recurring | - 10.032 | - 10.010 | - 10.010 | - 1 - | - 1 - | - 1 - |
| Subtotal: SLLP ECP-0428 FS402 RHS FRAME | - 10.032 | - 10.010 | - 10.010 | - 1- | - 1- | - 1- |
| Modification Item 12 of 24: SLLP ECP-0525R1/R2 FS402 UPPER FRAME |  |  |  |  |  |  |
| A Kits |  |  |  |  |  |  |
| Recurring |  |  |  |  |  |  |
| SLLP ECP-0525R1/R2 FS402 UPPER FRAME:INSTALL KITS Group A (Active) | 117/0.249 | 31/0.068 | 3/0.008 | 1 - | 1. | 1 |
| Subtotal: Recurring | - 10.249 | - 10.068 | - 10.008 | - 1- | - 1 - | - 1- |
| Subtotal: SLLP ECP-0525R1/R2 FS402 UPPER FRAME | - 10.249 | - 10.068 | - 10.008 | - / - | - / - | 1 |
| Modification Item 13 of 24: SLLP ECP-0557 CENTER FUSELAGE F2 FLOOR |  |  |  |  |  |  |


| Exhibit P-3a, Individual Modification: PB 2022 Air Force |  |  |  |  | Date: May 2021 <br> Modification Number / Title: <br> 5 / Correction of Deficiencies |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 2 |  | P-1 Line Item Number / Title: F03500 / F-35 Modifications |  |  |  |  |
| ID Code (A=Service Ready, B=Not Service Ready) : B |  |  | MDAP/MAIS Code: |  |  |  |
| Models of Systems Affected: F-35A | Modification Type: Other |  |  | Related RDT\&E PEs: 0604800F |  |  |
| Financial Plan | Prior Years | FY 2020 | FY 2021 | FY 2022 Base | FY 2022 OCO | FY 2022 Total |
|  | $\begin{gathered} \text { Qty (Each) I } \\ \text { Total Cost (\$ M) } \end{gathered}$ | $\begin{gathered} \text { Qty (Each) I } \\ \text { Total Cost (\$ M) } \end{gathered}$ | $\begin{gathered} \text { Qty (Each) I } \\ \text { Total Cost (\$ M) } \end{gathered}$ | $\begin{gathered} \text { Qty (Each) I } \\ \text { Total Cost (\$ M) } \end{gathered}$ | $\begin{gathered} \text { Qty (Each) I } \\ \text { Total Cost }(\$ M) \\ \hline \end{gathered}$ | $\begin{gathered} \text { Qty (Each) I } \\ \text { Total Cost (\$M) } \end{gathered}$ |
| A Kits |  |  |  |  |  |  |
| Recurring |  |  |  |  |  |  |
| SLLP ECP-0557 CENTER FUSELAGE F2 FLOOR:INSTALL KITS Group A (Active) | - 1- | $40 / 0.720$ | 39/0.702 | 3910.702 | 1 - | 3910.702 |
| Subtotal: Recurring | - 1- | - 10.720 | - 10.702 | - 10.702 | - 1 - | - 10.702 |
| Subtotal: SLLP ECP-0557 CENTER FUSELAGE F2 FLOOR | - $/$ - | 10.720 | - 10.702 | - 10.702 | 1 - | 10.702 |
| Modification Item 14 of 24: SLLP ECP-0628 BULKHEAD FS450, 472, 518 \& 556 |  |  |  |  |  |  |
| A Kits |  |  |  |  |  |  |
| Recurring |  |  |  |  |  |  |
| SLLP ECP-0628 BULKHEAD FS450, 472, 518 \& 556:INSTALL KITS Group A (Active) | 24/2.185 | 1. | $1 \cdot$ | 1 - | 1 - | - 1 - |
| Subtotal: Recurring | - 12.185 | 1 | - 1- | - 1- | - 1- | -1 |
| Subtotal: SLLP ECP-0628 BULKHEAD FS450, 472, 518 \& 556 | - /2.185 | 1 | 1 - | 1 | 1 - | 1. |
| Modification Item 15 of 24: SLLP ECP-0630 FUEL FLOOR FS496-556 |  |  |  |  |  |  |
| A Kits |  |  |  |  |  |  |
| Recurring |  |  |  |  |  |  |
| SLLP ECP-0630 FUEL FLOOR FS496-556:INSTALL KITS Group A (Active) | 3210.490 | - 1- | - 1- | - 1- | - 1- | -1- |
| Subtotal: Recurring | - 10.490 | 1 - | - 1 - | - 1 - | - 1 - | -1- |
| Subtotal: SLLP ECP-0630 FUEL FLOOR FS496-556 | - 10.490 | 1 - | 1 - | - 1 - | - 1 - | - 1 - |
| Modification Item 16 of 24: SLLP ECP-0698 FS496 BULKHEAD TRUNNION |  |  |  |  |  |  |
| A Kits |  |  |  |  |  |  |
| Recurring |  |  |  |  |  |  |
| SLLP ECP-0698 FS496 BULKHEAD TRUNNION:INSTALL KITS Group A (Active) | 14/0.001 | 1/0.001 | -1- | - 1- | 1 - | 1 |
| Subtotal: Recurring | - 10.001 | - 10.001 | - 1- | - 1 - | - 1 - | -1- |
| Subtotal: SLLP ECP-0698 FS496 BULKHEAD TRUNNION | - 10.001 | - 10.001 | - 1. | - 1. | - | 1 |
| Modification Item 17 of 24: SLLP ECP-0754 FS518 BULKHEAD (LRIP 1-12) |  |  |  |  |  |  |
| A Kits |  |  |  |  |  |  |

Exhibit P-3a, Individual Modification: PB 2022 Air Force

## Appropriation / Budget Activity / Budget Sub Activity:

 3010F/05/2
## P-1 Line Item Number / Title: F03500 / F-35 Modifications

Date: May 2021

## Modification Number / Title:

5/Correction of Deficiencies

ID Code (A=Service Ready, B=Not Service Ready) : B

MDAP/MAIS Code:

| Models of Systems Affected: F-35A |  | Modification Type: Other |  | Related RDT\&E PEs: 0604800F |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Financial Plan | Prior Years | FY 2020 | FY 2021 | FY 2022 Base | FY 2022 OCO | FY 2022 Total |
|  | Qty (Each) I Total Cost (\$ M) | Qty (Each) I Total Cost (\$ M) | Qty (Each) I Total Cost (\$ M) | $\begin{aligned} & \text { Qty (Each) I } \\ & \text { Total Cost (\$ M) } \end{aligned}$ | Qty (Each) I Total Cost (\$ M) | Qty (Each) I Total Cost (\$ M) |
| Recurring |  |  |  |  |  |  |
| SLLP ECP-0754 FS518 BULKHEAD (LRIP 1-12):INSTALL KITS Group A (Active) | $86 / 0.267$ | 59/0.042 | $43 / 0.023$ | - 1- | - 1 - | - 1 - |
| Subtotal: Recurring | - 10.267 | - 10.042 | - 10.023 | - 1- | - / - | - 1- |
| Subtotal: SLLP ECP-0754 FS518 BULKHEAD (LRIP 1-12) | - 10.267 | - 10.042 | - 10.023 | - 1 - | - 1 - | 1- |
| Modification Item 18 of 24: SLLP ECP-0847 VT FWD SHEAR FITTING BUSH |  |  |  |  |  |  |
| A Kits |  |  |  |  |  |  |
| Recurring |  |  |  |  |  |  |
| SLLP ECP-0847 VT FWD SHEAR FITTING BUSH:INSTALL KITS Group A (Active) | - 1- | 87/0.323 | $87 / 0.242$ | - 1- | - 1 - | - 1- |
| Subtotal: Recurring | - 1 - | - 10.323 | - 10.242 | - / - | - / - | - / - |
| Subtotal: SLLP ECP-0847 VT FWD SHEAR FITTING BUSH | - / - | - 10.323 | - 10.242 | - 1 - | - 1 - | - 1 - |
| Modification Item 19 of 24: SLLP ECP-1065 F1 FEED TANK UPPER COVERS LIMITED LIFE |  |  |  |  |  |  |
| A Kits |  |  |  |  |  |  |
| Recurring |  |  |  |  |  |  |
| SLLP ECP-1065 F1 FEED TANK UPPER COVERS LIMITED LIFE:INSTALL KITS Group A (Active) | - 1 - | - I - | 85/1.530 | 83/1.494 | - 1 - | 83/1.494 |
| Subtotal: Recurring | - / - | - / - | - /1.530 | - /1.494 | - / - | - 11.494 |
| Subtotal: SLLP ECP-1065 F1 FEED TANK UPPER COVERS LIMITED LIFE | - / - | - / - | - /1.530 | - /1.494 | - 1 - | - /1.494 |
| Modification Item 20 of 24: SLLP ECP-1130 UPPER INLET DUCT LONGERON (Lot 1-12) |  |  |  |  |  |  |
| A Kits |  |  |  |  |  |  |
| Recurring |  |  |  |  |  |  |
| SLLP ECP-1130 UPPER INLET DUCT LONGERON (Lot 1-12):INSTALL KITS Group A (Active) | - 1- | 31/0.139 | 109/0.709 | - 1- | - 1- | - 1- |
| Subtotal: Recurring | - 1 - | - 10.139 | - 10.709 | - / - | - 1 - | - / - |
| Subtotal: SLLP ECP-1130 UPPER INLET DUCT LONGERON (Lot 1-12) | / - | - 10.139 | - 10.709 | - / - | - $/$ - | / - |
| Modification Item 21 of 24: SLLP ECP-1220 FS402 UPPER OUTBOARD FRAMES |  |  |  |  |  |  |
| A Kits |  |  |  |  |  |  |

Exhibit P-3a, Individual Modification: PB 2022 Air Force

## Appropriation / Budget Activity / Budget Sub Activity:

 3010F/05/2Date: May 2021

## Modification Number / Title:

5/ Correction of Deficiencies

ID Code (A=Service Ready, B=Not Service Ready) : B

## P-1 Line Item Number / Title: F03500 / F-35 Modifications

MDAP/MAIS Code:

| Models of Systems Affected: F-35A |  | Modification Type: Other |  | Related RDT\&E PEs: 0604800F |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Financial Plan | Prior Years | FY 2020 | FY 2021 | FY 2022 Base | FY 2022 OCO | FY 2022 Total |
|  | $\begin{gathered} \text { Qty (Each) I } \\ \text { Total Cost (\$ M) } \end{gathered}$ | Qty (Each) I Total Cost (\$ M) | $\begin{gathered} \text { Qty (Each) I } \\ \text { Total Cost (\$ M) } \end{gathered}$ | Qty (Each) I Total Cost (\$ M) | Qty (Each) I Total Cost (\$ M) | Qty (Each) I Total Cost (\$ M) |
| Recurring |  |  |  |  |  |  |
| SLLP ECP-1220 FS402 UPPER OUTBOARD FRAMES:INSTALL KITS Group A (Active) | 1 | $80 / 0.720$ | 80/0.720 | $80 / 0.837$ | 1 - | 80/0.837 |
| Subtotal: Recurring | - / - | - 10.720 | - 10.720 | - 10.837 | - / - | - 10.837 |
| Subtotal: SLLP ECP-1220 FS402 UPPER OUTBOARD FRAMES | / - | - 10.720 | - 10.720 | - 10.837 | / - | - 10.837 |
| Modification Item 22 of 24: SLLP ECP-1246 LHS METALLIC FWD CHINE LONGERON |  |  |  |  |  |  |
| A Kits |  |  |  |  |  |  |
| Recurring |  |  |  |  |  |  |
| SLLP ECP-1246 LHS METALLIC FWD CHINE LONGERON:INSTALL KITS Group A (Active) | 1 - | 94/0.778 | $39 / 0.277$ | $2 / 0.017$ | 1 - | 2/0.017 |
| Subtotal: Recurring | - 1- | - 10.778 | - 10.277 | - 10.017 | - 1- | - 10.017 |
| Subtotal: SLLP ECP-1246 LHS METALLIC FWD CHINE LONGERON | - / - | - 10.778 | - 10.277 | - / 0.017 | - 1 - | - 10.017 |
| Modification Item 23 of 24: SLLP ECP-1406 GUN BLAST SKIN |  |  |  |  |  |  |
| A Kits |  |  |  |  |  |  |
| Recurring |  |  |  |  |  |  |
| SLLP ECP-1406 GUN BLAST SKIN:INSTALL KITS Group A (Active) | 1 - | - 1- | - 1- | $35 / 0.875$ | - 1- | 35/0.875 |
| Subtotal: Recurring | / - | - / - | - / - | - 10.875 | - 1- | - 10.875 |
| Subtotal: SLLP ECP-1406 GUN BLAST SKIN | - 1 - | - 1 - | - 1 - | - 10.875 | - / - | - 10.875 |
| Modification Item 24 of 24: SLLP ECP-1441 FS402 UPPER FRAME |  |  |  |  |  |  |
| A Kits |  |  |  |  |  |  |
| Recurring |  |  |  |  |  |  |
| SLLP ECP-1441 FS402 UPPER FRAME:INSTALL KITS Group A (Active) | - 1- | - 1 - | - 1 - | $92 / 1.656$ | 1 - | 92/1.656 |
| Subtotal: Recurring | - 1 - | - 1 - | - 1 - | - /1.656 | - 1 - | - $/ 1.656$ |
| Subtotal: SLLP ECP-1441 FS402 UPPER FRAME | 1 - | / - | - 1 - | - /1.656 | - 1 - | - 11.656 |
| Subtotal: Procurement, All Modification Items | - /4.612 | - /45.643 | - /17.467 | - /27.562 | - / - | - /27.562 |
| Support (All Modification Items) |  |  |  |  |  |  |
| GROUP A: TOTAL NONRECURRING | - 1- | - 1- | - 12.010 | - /1.675 | - 1 - | - 11.675 |
| GROUP B: TOTAL NONRECURRING | - 1- | - 1- | - 14.992 | - 14.564 | - 1 - | - 14.564 |

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Exhibit P-3a, Individual Modification: PB 2022 Air Force

## Appropriation / Budget Activity / Budget Sub Activity:

 3010F / 05 / 2
## P-1 Line Item Number / Title F03500 / F-35 Modifications

Date: May 2021
Modification Number / Title
5 / Correction of Deficiencies

MDAP/MAIS Code:
Modification Item 1 of 24: 1) Correction of Deficiencies (roll-up \& install) [B-kits]

## Manufacturer Information



Method of Implementation: Depot

|  | Prior Years | FY 2020 | FY 2021 | FY 2022 Base | FY 2022 OCO | FY 2022 Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Installation Cost | Qty (Each) I Total Cost (\$ M) | Qty (Each) I Total Cost (\$ M) | Qty (Each) I Total Cost (\$ M) | Qty (Each) I <br> Total Cost (\$ M) | Qty (Each) I Total Cost (\$ M) | Qty (Each) I Total Cost (\$ M) |
| Prior Years | - 1 - | - 1 - | - 1 - | - 1 - | - 1 - | - 1 |
| FY 2020 | - 1 - | - 1 | - 1 - | - 1 - | - 1 - | 1 |
| FY 2021 | 1 | 1 | - 1 | $0 / 2.821$ | -1 | 0/2.821 |
| FY 2022 | - 1 - | - 1 | - 1 - | - 1 - | - 1- | 1 - |
| Total | - 1- | - 1- | - 1- | $0 / 2.821$ | - 1 - | 0/2.821 |

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| Exhibit P-3a, Individual Modification: PB 2022 Air Force |  |  |  |  |  |  |  |  | Date: May 2021 |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 2 |  |  |  | P-1 Line Item Number / Title: F03500 / F-35 Modifications |  |  |  |  | Modification Number / Title: <br> 5 / Correction of Deficiencies |  |  |  |
| ID Code (A=Service Ready, $\mathrm{B}=$ Not Service Ready) : B |  |  |  |  |  | MDAP/MAIS Code: |  |  |  |  |  |  |
| Modification Item 1 of 24: 1) Correction of Deficiencies (roll-up \& install) [B-kits] |  |  |  |  |  |  |  |  |  |  |  |  |
| Installation Information |  |  |  |  |  |  |  |  |  |  |  |  |
| Method of Implementation: Depot |  |  |  |  |  |  |  |  |  |  |  |  |
| Installation Schedule |  |  |  |  |  |  |  |  |  |  |  |  |
|  | FY 2020 |  |  |  | FY 2021 |  |  |  | FY 2022 |  |  |  |
| PYS | Q1 | Q2 | Q3 | Q4 | Q1 | Q2 | Q3 | Q4 | Q1 | Q2 | Q3 | Q4 |
| In 0 | - | - | - | - | - | - | - | - | - | - | - | - |
| Out 0 | - | - | - | - | - | - | - | - | - | - | - | - |

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| Exhibit P-3a, Individual Modification: PB 2022 Air Force |  |  |  |  |  |  |  |  | Date: May 2021 |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 2 |  |  |  | P-1 Line Item Number / Title: F03500 / F-35 Modifications |  |  |  |  | Modification Number / Title: <br> 5 / Correction of Deficiencies |  |  |  |
| ID Code (A=Service Ready, B=Not Service Ready) : B |  |  |  |  |  | MDAP/MAIS Code: |  |  |  |  |  |  |
| Modification Item 7 of 24: 3) Reliability and Maintainability |  |  |  |  |  |  |  |  |  |  |  |  |
| Manufacturer Information |  |  |  |  |  |  |  |  |  |  |  |  |
| Manufacturer Name: Lockheed Martin |  |  |  |  |  | Manufacturer Location: Fort Worth, TX |  |  |  |  |  |  |
| Administrative Leadtime (in Months): 2 |  |  |  |  |  | Production Leadtime (in Months): 12 |  |  |  |  |  |  |
| Dates |  |  |  | FY 2020 |  | FY 2021 |  |  | FY 2022 |  |  |  |
| Contract Dates |  |  |  |  |  |  |  |  | Dec 2021 |  |  |  |
| Delivery Dates |  |  |  |  |  |  |  |  | Dec 2022 |  |  |  |
| Installation Information |  |  |  |  |  |  |  |  |  |  |  |  |
| Method of Implementation: Depot |  |  |  |  |  |  |  |  |  |  |  |  |
| Installation Schedule |  |  |  |  |  |  |  |  |  |  |  |  |
|  | FY 2020 |  |  |  | FY 2021 |  |  |  | FY 2022 |  |  |  |
| PYS | Q1 | Q2 | Q3 | Q4 | Q1 | Q2 | Q3 | Q4 | Q1 | Q2 | Q3 | Q4 |
| In 0 | - | - | - | - | - | - | - | - | - | - | - | - |
| Out 0 | - | - | - | - | - | - | - | - | - | - | - | - |

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Exhibit P-3a, Individual Modification: PB 2022 Air Force Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 2

## P-1 Line Item Number / Title F03500 / F-35 Modifications

Date: May 2021
Modification Number / Title:
5/Correction of Deficiencies

MDAP/MAIS Code:
Modification Item 8 of 24: 4) Structural Life Limited Parts (roll-up \& install)


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| Exhibit P-3a, Individual Modification: PB 2022 Air Force |  |  | Date: May 2021 |
| :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 2 | P-1 Line Item Number / Title: F03500 / F-35 Modifications |  | Modification Number / Title: 5 / Correction of Deficiencies |
| ID Code (A=Service Ready, $\mathrm{B}=$ Not Service Ready) : B |  | MDAP/MAIS Code: |  |
| Modification Item 13 of 24: SLLP ECP-0557 CENTER FUSELAGE F2 FLOOR |  |  |  |
| Manufacturer Information |  |  |  |
| Manufacturer Name: Lockheed Martin |  | Manufacturer Location: Fort Worth |  |
| Administrative Leadtime (in Months): 5 |  | Production Leadtime (in Months): 12 |  |
| Dates | FY 2020 | FY 2021 | FY 2022 |
| Contract Dates | Mar 2020 | Mar 2021 | Mar 2022 |
| Delivery Dates | Mar 2021 | Mar 2022 | Mar 2023 |
| Installation Information |  |  |  |
| Method of Implementation (Organic): Org/Intermediate |  | Installation Quantity: 157 |  |

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| Exhibit P-3a, Individual Modification: PB 2022 Air Force |  |  | Date: May 2021 |
| :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 2 | P-1 Line Item Number / Title: F03500 / F-35 Modifications |  | Modification Number / Title: 5 / Correction of Deficiencies |
| ID Code (A=Service Ready, B=Not Service Ready) : B MDAP/MAIS Code: |  |  |  |
| Modification Item 14 of 24: SLLP ECP-0628 BULKHEAD FS450, 472, 518 \& 556 |  |  |  |
| Manufacturer Information |  |  |  |
| Manufacturer Name: Lockheed Martin |  | Manufacturer Location: Fort Worth |  |
| Administrative Leadtime (in Months): 5 |  | Production Leadtime (in Months): 12 |  |
| Dates | FY 2020 | FY 2021 | FY 2022 |
| Contract Dates |  |  |  |
| Delivery Dates |  |  |  |
|  |  |  |  |
| Installation Information |  |  |  |
| Method of Implementation (Organic): Org/Intermediate |  | Installation Quantity: 24 |  |

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| Exhibit P-3a, Individual Modification: PB 2022 Air Force |  |  | Date: May 2021 |
| :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 2 | P-1 Line Item Number / Title: F03500 / F-35 Modifications |  | Modification Number / Title: 5 / Correction of Deficiencies |
| ID Code (A=Service Ready, B=Not Service Ready) : B |  | MDAP/MAIS Code: |  |
| Modification Item 19 of 24: SLLP ECP-1065 F1 FEED TANK UPPER COVERS LIMITED LIFE |  |  |  |
| Manufacturer Information |  |  |  |
| Manufacturer Name: Lockheed Martin |  | Manufacturer Location: Fort Worth |  |
| Administrative Leadtime (in Months): 5 |  | Production Leadtime (in Months): 12 |  |
| Dates | FY 2020 | FY 2021 | FY 2022 |
| Contract Dates |  | Mar 2021 | Mar 2022 |
| Delivery Dates |  | Mar 2022 | Mar 2023 |
| Installation Information |  |  |  |
|  |  |  |  |  |
| Method of Implementation (Organic): Org/lntermediate |  | Installation Quantity: 334 |  |

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Exhibit P-3a, Individual Modification: PB 2022 Air Force

## Appropriation / Budget Activity / Budget Sub Activity:

 3010F/05/2
## P-1 Line Item Number / Title: F03500 / F-35 Modifications

## Date: May 2021

## Modification Number / Title:

6/Block 4 Modifications

ID Code ( $A=$ Serice Ready, $B=$ Not Serice Ready) : B
MDAP/MAIS Code:

| Resource Summary | Prior Years | FY 2020 | FY 2021 | FY 2022 Base | FY 2022 OCO | FY 2022 Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Procurement Quantity (Units in Each) | - | - | - | - | - | - |
| Gross/Weapon System Cost (\$ in Millions) | - | 19.080 | 38.062 | 180.557 | 0.000 | 180.557 |
| Less PY Advance Procurement (\$ in Millions) | - | - | - | - | - | - |
| Net Procurement (P-1) (\$ in Millions) | - | 19.080 | 38.062 | 180.557 | 0.000 | 180.557 |
| Plus CY Advance Procurement (\$ in Millions) | - | - | - | - | - | - |
| Total Obligation Authority (\$ in Millions) | - | 19.080 | 38.062 | 180.557 | 0.000 | 180.557 |
| (The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.) |  |  |  |  |  |  |
| Initial Spares (\$ in Millions) | - | - | - | - | - | - |
| Gross/Weapon System Unit Cost (\$ in Millions) | - | - | - | - | - | - |

## Description:



 requirements. Capacity tooling captured under support costs as "OTHER GOVT.

 configuration. Quantities of retrofits will increase based on changes to the production profile.

 2-year kit lead-time. This effort includes, but not limited to the below capabilities and associated modification install timelines:

FY2021 (Lot 13) - Magazine Retainer Plate



- TR3 - integrates new integrated core processor, panoramic cockpit display, and aircraft memory system to meet Block 4 processing, memory, and throughput requirements
- Next Gen DAS - replaces current DAS due to sensor reliability while increasing performance to provide larger pixel focal plane array and higher operating temperatures
- Cooling Mod - increases cooling capacity to support electronic warfare growth and addition of Full Motion Video (FMV)

- Full Motion Video - adds the capability to receive encrypted and unencrypted full motion video and still imagery from Operational Facilities and Remote Video Terminals
- EGI - hardware enabler for M-Code/Automatic Dependent Surveillance-Broadcast/Required Navigation Performance/area navigation capabilities
 Receivers

FY2025 (Lot 17) - Advanced Multi Channel Transceiver Receiver (AMCTR), Band 2/3/4/5 Electronic Warfare (EW) Hardware (HW) and EW Group 2

| Exhibit P-3a, Individual Modification: PB 2022 Air Force |  | Date: May 2021 |
| :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 2 | P-1 Line Item Number / Title: F03500 / F-35 Modifications | Modification Number / Title: 6 / Block 4 Modifications |
| ID Code (A=Service Ready, B=Not Service Ready) : B $\quad$ M |  | MDAP/MAIS Code: |
| - AMCTR - provides MIDS Modernization Increment 1 (MMI) Concurrent Multi-Netting (CMN) and Concurrent Contention Receive (CCR) capabilities |  |  |
| - Band $2 / 3 / 4 / 5$ EW HW - provides Band $2 \& 5$ RWR functionality by adding Band 2 Nose Landing Gear Door (NLGD) Aperture, Band 3/4 NLGD Aperture, Band 2/3/4 Array Electronic Module (AEM), Band 3/4/5 AEM, Band 5 Apertures, and Band 5 AEM |  |  |
| - EW Group 2 - adds technology to address the Advancing Threats, to detect and counter the LPI Emitter while providing Band 5 RWR functionality; includes Wideband Receiver, Wideband Notch Filter, Band $2 / 5$ |  |  |
| Switch Matrix Module, Aircraft Interface Module (ACIF), M-Quad Upconverter (M-QUC), M-Quad Tuner (M-QTM), M-Digital Channelized Receiver (DCR), M-DCR and Techniques Receiver (DCRTG), M-Analog-to-Digital Converter (ADC), M-Radio Frequency Converter, High Voltage Power Supply (HVPS) |  |  |
| Unit, organic depot, or contractor field teams will complete the modification installs to coincide with resources and aircraft availability. |  |  |
| Significant funding increase in FY2022 to start procurement of Lot 15 hardware including TR-3 components. |  |  |
| Milestone/Development Status |  |  |


 and sustainment. Lot 17 Capacity tooling is required in FY2023.

## UNCLASSIFIED



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## UNCLASSIFIED



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Exhibit P-40, Budget Line Item Justification: PB 2022 Air Force

| Appropriation / Budget Activity / Budget Sub Activity: |
| :--- |
| 3010F: Aircraft Procurement, Air Force / BA 05: Modification of Inservice Aircraft / |
| BSA 2: Tactical Aircraft |

## P-1 Line Item Number / Title:

F15EWS / F-15 EPAW

| ID Code (A=Service Ready, B=Not Service Ready) |  |  | Program Ele | nts for Cod | B Items: | 7171F |  | Other Rela | Program | ents: 0207 | 46F |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Line Item MDAP/MAIS Code: 485 |  |  |  |  |  |  |  |  |  |  |  |  |
| Resource Summary | Prior <br> Years | FY 2020 | FY 2021 | FY 2022 Base | $\begin{gathered} \text { FY } 2022 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \text { FY } 2022 \\ \text { Total } \end{gathered}$ | FY 2023 | FY 2024 | FY 2025 | FY 2026 | To Complete | Total |
| Procurement Quantity (Units in Each) | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Cost (\$ in Millions) | 149.797 | 125.417 | 0.000 | 149.797 | - | 149.797 | - | - | - | - | - | - |
| Less PY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Net Procurement (P-1) (\$ in Millions) | 149.797 | 125.417 | 0.000 | 149.797 | - | 149.797 | - | - | - | - | - | - |
| Plus CY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Total Obligation Authority (\$ in Millions) | 149.797 | 125.417 | 0.000 | 149.797 | - | 149.797 | - | - | - | - | - | - |
| (The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.) |  |  |  |  |  |  |  |  |  |  |  |  |
| Initial Spares (\$ in Millions) | - | - | - | 28.005 | - | 28.005 | - | - | - | - | - | - |
| Flyaway Unit Cost (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Unit Cost (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |

## Description:





 solution. Finally, EPAWSS will counter numerous threat systems at end-game via electronic countermeasures (jamming), chaff, and/or flares.



 as needed.

Exhibit P-40, Budget Line Item Justification: PB 2022 Air Force
Appropriation / Budget Activity / Budget Sub Activity:
3010F: Aircraft Procurement, Air Force / BA 05: Modification of Inservice Aircraft /
BSA 2: Tactical Aircraft

## P-1 Line Item Number / Title: <br> F15EWS / F-15 EPAW

BSA 2: Tactical Aircraft

| ID Code (A=Service Ready, B=Not Service Ready): B |  |  | Program Elements for Code B Items: 0207171F |  |  |  | Other Related Program Elements: 0207146F |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Line Item MDAP/MAIS Code: 485 |  |  |  |  |  |  |  |  |  |  |
| Exhibits Schedule |  |  |  |  | Prior Years | FY 2020 | FY 2021 | FY 2022 Base | FY 2022 OCO | FY 2022 Total |
| Exhibit Type | Title* | Subexhibits | $\begin{aligned} & \text { ID } \\ & \text { CD } \end{aligned}$ | MDAP/ MAIS Code | Quantity / Total Cost <br> (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) |
| P-3a | 8796 / EPAWSS F-15E (Capability Improvement) |  | B |  | - /149.797 | / 125.417 | - 10.000 | / 149.797 | - 10.000 | - / 149.797 |
| P-40 | Total Gross/Weapon System Cost |  |  |  | - /149.797 | - / 125.417 | - 10.000 | - /149.797 | - 1 | - / 149.797 |

*Title represents 1) the Number / Title for Items; 2) the Number / Title [DODIC] for Ammunition; and/or 3) the Number / Title (Modification Type) for Modifications.
Note: Totals in this Exhibit P-40 set may not be exact or sum exactly due to rounding.

## Justification:

This program, P-3A Mod 8796, EPAWSS F-15E, is a new start.




 disrupt, and defeat RF and electro-optical / infrared threat systems within highly contested environments.

Exhibit P-3a, Individual Modification: PB 2022 Air Force

## Appropriation / Budget Activity / Budget Sub Activity:

 3010F/05/2
## Date: May 2021

## Modification Number / Title:

8796 / EPAWSS F-15E

ID Code ( $A=$ Serice Ready, $B=$ Not Service Ready) : B

## P-1 Line Item Number / Title: F15EWS / F-15 EPAW

| MDAP/MAIS Code: |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Resource Summary | Prior Years | FY 2020 | FY 2021 | FY 2022 Base | FY 2022 OCO | FY 2022 Total |
| Procurement Quantity (Units in Each) | - | - | - | - | - | - |
| Gross/Weapon System Cost (\$ in Millions) | 149.797 | 125.417 | 0.000 | 149.797 | 0.000 | 149.797 |
| Less PY Advance Procurement (\$ in Millions) | - | - | - | - | - | - |
| Net Procurement (P-1) (\$ in Millions) | 149.797 | 125.417 | 0.000 | 149.797 | 0.000 | 149.797 |
| Plus CY Advance Procurement (\$ in Millions) | - | - | - | - | - | - |
| Total Obligation Authority (\$ in Millions) | 149.797 | 125.417 | 0.000 | 149.797 | 0.000 | 149.797 |
| (The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.) |  |  |  |  |  |  |
| Initial Spares (\$ in Millions) | - | - | - | 28.005 | - | 28.005 |
| Gross/Weapon System Unit Cost (\$ in Millions) | - | - | - | - | - | - |

## Description:

This program, P-3A Mod 8796, EPAWSS F-15E, is a new start.




 solution. Finally, EPAWSS will counter numerous threat systems at end-game via electronic countermeasures (jamming), chaff, and/or flares.



 as needed.

Funding Note: EPAWSS awarded Lot 1 Group A and Group B with FY 2019 funds.
Milestone/Development Status

 of Low Rate Initial Production and takes procurement of the EPAWSS hardware (long-lead) off the program critical path.

| Exhibit P-3a, Individual Modification: PB 2022 Air Force |  |  |  |  | Date: May 2021 |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 2 |  | P-1 Line Item Number / Title: F15EWS / F-15 EPAW |  |  | Modification Number / Title: 8796 / EPAWSS F-15E |  |
| ID Code (A=Service Ready, B=Not Service Ready) : B |  |  | MDAP/MAIS Code: |  |  |  |
| Models of Systems Affected: F-15E | Modification Type: Capability Improvement |  |  | Related RDT\&E PEs: 0207146F, 0207171F |  |  |
|  | Prior Years | FY 2020 | FY 2021 | FY 2022 Base | FY 2022 OCO | FY 2022 Total |
| Financial Plan | $\begin{gathered} \text { Qty (Each) I } \\ \text { Total Cost (\$ M) } \\ \hline \end{gathered}$ | $\begin{gathered} \text { Qty (Each) I } \\ \text { Total Cost }(\$ M) \\ \hline \end{gathered}$ | $\begin{gathered} \text { Qty (Each) I } \\ \text { Total Cost }(\$ M) \\ \hline \end{gathered}$ | $\begin{gathered} \text { Qty (Each) I } \\ \text { Total Cost }(\$ M) \\ \hline \end{gathered}$ | $\begin{gathered} \text { Qty (Each) I } \\ \text { Total Cost (\$M) } \\ \hline \end{gathered}$ | $\begin{gathered} \text { Qty (Each) I } \\ \text { Total Cost }(\$ M) \\ \hline \end{gathered}$ |
| RDT\&E PE\# |  |  |  |  |  |  |
| 0207171F | 1/147.216 | 5/46.040 | $2 / 170.368$ | - 1112.012 | 1. | - 1112.012 |
| Procurement |  |  |  |  |  |  |
| Modification Item 1 of 1: F-15E EPAWSS |  |  |  |  |  |  |
| A Kits |  |  |  |  |  |  |
| Recurring |  |  |  |  |  |  |
| F-15E EPAWSS:INSTALL KITS Group A (Active) | 6/5.578 | - 1- | - 1- | 18/16.735 | $1-$ | 18/16.735 |
| Subtotal: Recurring | - 15.578 | - 1- | 1 | - /16.735 | - 1- | - /16.735 |
| B Kits |  |  |  |  |  |  |
| Recurring |  |  |  |  |  |  |
| F-15E EPAWSS:EQUIPMENT Group B (Active) | 6/25.139 | - 1- | 1 - | 18/66.145 | 1 - | 18/66.145 |
| Subtotal: Recurring | - /25.139 | - 1- | - 1. | - /66.145 | - 1 - | - /66.145 |
| Subtotal: F-15E EPAWSS | - /30.717 | 1 | - / - | - 182.880 | - 1 - | - 182.880 |
| Subtotal: Procurement, All Modification Items | - /30.717 | - 1- | 1 - | - 182.880 | - 1 - | - 182.880 |
| Support (All Modification Items) |  |  |  |  |  |  |
| OTHER GOVT | - 142.328 | - 147.917 | 1. | - 114.180 | 1 - | - 114.180 |
| ICS-Labor | - 145.687 | - 1- | - 1- | - 14.968 | - 1 - | - 14.968 |
| Type 1 Training | - 10.337 | - 10.256 | - 1 - | - 10.137 | - 1. | - 10.137 |
| PMA - Other Gov't Costs | - 13.634 | - 13.780 | 1. | - 14.856 | 1. | - 14.856 |
| SUPPORT-EQUIP | - 121.883 | - 168.764 | - 1- | - 17.100 | - 1 - | - 17.100 |
| Data | - 13.522 | - 10.500 | 1 | - 11.453 | - 1- | - 11.453 |
| Change Orders | - 11.689 | - 14.200 | - 1- | - 18.899 | 1- | - 18.899 |
| Subtotal: Support | - 1119.080 | - /125.417 | 1 - | - /41.593 | - 1 - | - /41.593 |
| Installation |  |  |  |  |  |  |
| Modification Item 1 of 1: F-15E EPAWSS | - 1 - | - 1 - | - 1 - | 6/25.324 | 1. | 6/25.324 |
| Subtotal: Installation | - 1- | - 1 - | - 1- | 6/25.324 | - 1- | 6/25.324 |
| Total |  |  |  |  |  |  |
| Total Cost (Procurement + Support + Installation) | 149.797 | 125.417 | 0.000 | 149.797 | 0.000 | 149.797 |

## UNCLASSIFIED

| Exhibit P-3a, Individual Modification: PB 2022 Air Force |  |  |  |  |  |  |  |  |  | Date: May 2021 |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 2 |  |  |  |  | P-1 Line Item Number / Title: F15EWS / F-15 EPAW |  |  |  |  | Modification Number / Title: 8796 / EPAWSS F-15E |  |  |  |
| ID Code (A=Service Ready, B=Not Service Ready) : B |  |  |  |  |  |  | MDAP/MAIS Code: |  |  |  |  |  |  |
| Modification Item 1 of 1: F-15E EPAWSS |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Manufacturer Information |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Manufacturer Name: Boeing |  |  |  |  |  |  | Manufacturer Location: St. Louis |  |  |  |  |  |  |
| Administrative Leadtime (in Months): 1 |  |  |  |  |  |  | Production Leadtime (in Months): 20 |  |  |  |  |  |  |
| Dates ${ }^{\text {a }}$ FY 2020 |  |  |  |  |  |  | FY 2021 |  |  | FY 2022 |  |  |  |
| Contract Dates |  |  |  |  |  |  |  |  |  | Nov 2021 |  |  |  |
| Delivery Dates |  |  |  |  |  |  |  |  |  | Jul 2023 |  |  |  |
| Installation Information |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Method of Implementation: Contract Field Team |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Installation Cost |  |  | Prior Years |  | FY 2020 | FY 2021 |  | FY 2022 Base |  | FY 2022 OCO |  | FY 2022 Total |  |
|  |  |  | $\begin{gathered} \hline \text { Qty (Each) I } \\ \text { Total Cost }(\$ \mathrm{M}) \\ \hline \end{gathered}$ |  | $\begin{gathered} \text { Qty (Each)I } \\ \text { Total Cost (\$ M) } \end{gathered}$ | $\begin{gathered} \text { Qty (Each)I } \\ \text { Total Cost (\$ M) } \end{gathered}$ |  | $\begin{gathered} \text { Qty (Each) I } \\ \text { Total Cost }(\$ M) \\ \hline \end{gathered}$ |  | $\begin{gathered} \hline \text { Qty (Each) I } \\ \text { Total Cost (\$ M) } \end{gathered}$ |  | $\begin{gathered} \text { Qty (Each) I } \\ \text { Total Cost (\$ M) } \end{gathered}$ |  |
| Prior Years |  |  |  | 1 - |  | - 1- |  | 6/25.324 |  | - 1- |  | 6/25.324 |  |
| FY 2020 |  |  |  | 1 - |  |  |  |  | - 1- | - 1 - |  | -1- |  |
| FY 2021 |  |  |  | 1 - |  |  |  |  | -1- | - 1- |  | $-1-$ |  |
| FY 2022 |  |  |  | 1 - |  |  |  |  | -1- | -1- |  |  |  |
| Total |  |  |  | 1 - |  |  |  |  | 6/25.324 |  | - 1 - |  |  |
| Installation Schedule |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | PYS | FY 2020 |  |  |  | FY 2021 |  |  |  | FY 2022 |  |  |  |
|  |  | Q1 | Q2 | Q3 | Q4 | Q1 | Q2 | Q3 | Q4 | Q1 | Q2 | Q3 | Q4 |
| In | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | - | 3 | 0 | 2 | 1 |
| Out | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | - | 0 | 0 | 3 | 0 |

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Appropriation / Budget Activity / Budget Sub Activity:
3010F: Aircraft Procurement, Air Force / BA 05: Modification of Inservice Aircraft /
BSA 2: Tactical Aircraft

## P-1 Line Item Number / Title: <br> F2232B / Increment 3.2b

BSA 2: Tactical Aircraft

| ID Code (A=Service Ready, B=Not Service Ready): B | Program Elements for Code B Items: 0207138F | Other Related Program Elements: 0605213F |
| :--- | :--- | :--- |

## Line Item MDAP/MAIS Code: 474

| Resource Summary | Prior Years | FY 2020 | FY 2021 | $\text { FY } 2022$ <br> Base | $\begin{gathered} \text { FY } 2022 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \text { FY } 2022 \\ \text { Total } \end{gathered}$ | FY 2023 | FY 2024 | FY 2025 | FY 2026 | To Complete | Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Procurement Quantity (Units in Each) | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Cost (\$ in Millions) | 275.746 | 20.213 | 5.889 | 0.000 | - | 0.000 | - | - | - | - | - | - |
| Less PY Advance Procurement (\$ in Millions) | 30.500 | - | - | - | - | - | - | - | - | - | - | - |
| Net Procurement (P-1) (\$ in Millions) | 245.246 | 20.213 | 5.889 | 0.000 | - | 0.000 | - | - | - | - | - | - |
| Plus CY Advance Procurement (\$ in Millions) | 30.500 | - | - | - | - | - | - | - | - | - | - | - |
| Total Obligation Authority (\$ in Millions) | 275.746 | 20.213 | 5.889 | 0.000 | - | 0.000 | - | - | - | - | - | - |
| (The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.) |  |  |  |  |  |  |  |  |  |  |  |  |
| Initial Spares (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Flyaway Unit Cost (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Unit Cost (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |

## Description:

Increment 3.2 retrofits Block 30 and 35 aircraft with hardware and software to host Increment 3.2 B capabilities including the Enhanced Stores Management System (ESMS) Common Split Bus, AIM-120D, AIM-9X, Electronic Protection enhancements, Intra-Flight Datalink (IFDL) improvements, and Geolocate 2.0. Increment 3.2B is the user's highest priority for F-22.

The F-22 Raptor's Modernization Development is conducted using a rapid acquisition construct leveraging commercial best practices such as Agile and Lean. This allows the F-22 Raptor program to develop, test, and field software/hardware from multiple programs (product lines) using a scheduled cadence for capabilities as they mature. The F-22 Raptor program's utilization of these commercial best practices during production activities will allow for concurrent installations of mature Group A and Group B hardware and software of multiple product lines, delivering war fighter capabilities to the field earlier than under historical acquisition practices.

Funding for this exhibit is contained in PE 0207138F
The RDT\&E funding for this effort is contained in PE 0605213F (FY04 - FY18); PE 0207163F (FY10 - FY13); PE 0207445F (FY07-FY10); and PE 020001F (FY07).
Determined attempts to deny US air superiority from peer threats within the Indo-Pacific region have driven a Congressional Interest Item (CII), Emergency and Special Program (ESP) Code G3, to highlight investments and activities that will build forces that are lethal, resilient, ready, and postured to respond quickly and effectively against aggression. The F-22 Raptor is a key component of the Pacific Deterrence Initiative (PDI) for increasing joint force lethality and maintaining a credible deterrent in theater.

| Secondary Distribution |  | FY 2020 | FY 2021 | FY 2022 <br> Base | $\begin{aligned} & \text { FY } 2022 \\ & \text { OCO } \end{aligned}$ | $\begin{gathered} \text { FY } 2022 \\ \text { Total } \end{gathered}$ | FY 2023 | FY 2024 | FY 2025 | FY 2026 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| AF | Quantity | - | - | - | - | - | - | - | - | - |
|  | Total Obligation Authority | 20.213 | 1.561 | 0.000 | - | 0.000 | - | - | - | - |
| AFNG | Quantity | - | - | - | - | - | - | - | - | - |
|  | Total Obligation Authority | - | 4.328 | - | - | - | - | - | - | - |
| Total: | Quantity | - | - | - | - | - | - | - | - | - |

UNCLASSIFIED

| Exhibit P-40, Budget Line Item Justification: PB 2022 Air Force |  |  |  |  |  |  |  | Date: May 2021 |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: <br> 3010F: Aircraft Procurement, Air Force / BA 05: Modification of Inservice Aircraft / <br> BSA 2: Tactical Aircraft |  |  |  |  | P-1 Line Item Number / Title: <br> F2232B / Increment 3.2b |  |  |  |  |  |
| ID Code (A=Service Ready | Not Service Ready): B | Program Elements for Code B Items: 0207138 F |  |  |  | Other Related Program Elements: 0605213F |  |  |  |  |
| Line Item MDAP/MAIS Code: 474 |  |  |  |  |  |  |  |  |  |  |
| Secondary Distribution |  | FY 2020 | FY 2021 | $\begin{gathered} \hline \text { FY } 2022 \\ \text { Base } \end{gathered}$ | $\begin{aligned} & \text { FY } 2022 \\ & \text { OCO } \end{aligned}$ | $\begin{gathered} \text { FY } 2022 \\ \text { Total } \end{gathered}$ | FY 2023 | FY 2024 | FY 2025 | FY 2026 |
| Secondary Distribution | Total Obligation Authority | 20.213 | 5.889 | 0.000 | - | 0.000 |  | - | - | - |


| Exhibit P-40, Budget Line Item Justification: PB 2022 Air Force |  |  |  |  |  |  |  | Date: May 2021 |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: <br> 3010F: Aircraft Procurement, Air Force / BA 05: Modification of Inservice Aircraft / <br> BSA 2: Tactical Aircraft |  |  |  |  |  | P-1 Line Item Number / Title: <br> F2232B / Increment 3.2b |  |  |  |  |
| ID Cod | (A=Service Ready, B=Not Service Ready): B | Program Elements for Code B Items: 0207138F |  |  |  |  | Other Related Program Elements: 0605213F |  |  |  |
| Line Item MDAP/MAIS Code: 474 |  |  |  |  |  |  |  |  |  |  |
| Exhibits Schedule |  |  |  |  | Prior Years | FY 2020 | FY 2021 | FY 2022 Base | FY 2022 OCO | FY 2022 Total |
| $\begin{aligned} & \text { Exhibit } \\ & \text { Type } \end{aligned}$ | Title* | Subexhibits | $\begin{aligned} & \text { ID } \\ & \text { CD } \end{aligned}$ | MDAP/ MAIS Code | Quantity / Total Cos (Each) I (\$ M) | Quantity / Total Cost <br> (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) |
| P-3a | 11100 / INCREMENT 3.2B (Capability Improvement) |  | B |  | - 1275.746 | - 120.213 | - 15.889 | - 10.000 | - 10.000 | - 10.000 |
| P-40 | Total Gross/Weapon System Cost |  |  |  | - 1275.746 | - 120.213 | - 15.889 | - 10.000 | 1 | - 10.000 |

## *Title represents 1) the Number / Title for Items; 2) the Number / Title [DODIC] for Ammunition; and/or 3) the Number / Title (Modification Type) for Modifications

Note: Totals in this Exhibit P-40 set may not be exact or sum exactly due to rounding.
Justification:
Where applicable, justification for individual modifications is provided in the P-3A exhibits.

| Exhibit P-3a, Individual Modification: PB 2022 Air Force |  |  |  |  | Date: May 2021 |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 2 | P-1 Line Item Number / Title: F2232B / Increment 3.2b |  |  |  | Modification Number / Title: 11100 / INCREMENT 3.2B |  |
| ID Code (A=Service Ready, $\mathrm{B}=$ Not Service Ready) : B | MDAP/MAIS Code: |  |  |  |  |  |
| Resource Summary | Prior Years | FY 2020 | FY 2021 | FY 2022 Base | FY 2022 OCO | FY 2022 Total |
| Procurement Quantity (Units in Each) | - | - | - | - | - | - |
| Gross/Weapon System Cost (\$ in Millions) | 275.746 | 20.213 | 5.889 | 0.000 | 0.000 | 0.000 |
| Less PY Advance Procurement (\$ in Millions) | 30.500 | - | - | - | - | - |
| Net Procurement (P-1) (\$ in Millions) | 245.246 | 20.213 | 5.889 | 0.000 | 0.000 | 0.000 |
| Plus CY Advance Procurement (\$ in Millions) | 30.500 | - | - | - | - | - |
| Total Obligation Authority (\$ in Millions) | 275.746 | 20.213 | 5.889 | 0.000 | 0.000 | 0.000 |
| (The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.) |  |  |  |  |  |  |
| Initial Spares (\$ in Millions) | - | - | - | - | - | - |
| Gross/Weapon System Unit Cost (\$ in Millions) | - | - | - | - | - | - |

## Description:

Increment 3.2B retrofits Block 30 and 35 aircraft with hardware and software to host Increment 3.2B Enhanced Stores Management System (ESMS) Common Split Bus, AIM-120D, AIM-9X, Electronic Protection enhancements, IFDL improvements, Geolocate 2.0 capability and installs display upgrades, more capable memory and improved computer processors. Increment $3.2 B$ will retrofit 143 aircraft in the fleet. Along with Update 6, Increment 3.2B is the user's highest priority for F-22. Retrofit installations started at Langley AFB in FY19 and now includes retrofit installations at Hickam AFB and Elmendorf AFB in FY20. FY20 includes the initial retrofit contractor field team setup for Elmendorf AB and Hickam AB. Increment 3.2 B installation costs vary by specific aircraft block and location

Milestone/Development Status
LRIP installs began in May 2019. The last milestone of Required Assets Available was reached on 27 Aug 2019 (prior to the 30 Sep 2019 threshold). Installs are scheduled to complete in early FY22.

| Secondary Distribution |  | FY 2020 | FY 2021 | $\begin{gathered} \text { FY } 2022 \\ \text { Base } \end{gathered}$ | $\begin{gathered} \text { FY } 2022 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \text { FY } 2022 \\ \text { Total } \end{gathered}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| AF | Quantity | - | - | - | - | - |
|  | Total Obligation Authority | 20.213 | 1.561 | 0.000 | - | 0.000 |
| AFNG | Quantity | - | - | - | - | - |
|  | Total Obligation Authority | - | 4.328 | - | - | - |
| Total: <br> Secondary Distribution | Quantity | - | - | - | - | - |
|  | Total Obligation Authority | 20.213 | 5.889 | 0.000 | 0.000 | 0.000 |



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| Appropriation / Budget Activity / Budget Sub Activity: |
| :--- |
| 3010F: Aircraft Procurement, Air Force / BA 05: Modification of Inservice Aircraft / |
| BSA 2: Tactical Aircraft |
| ID |

## P-1 Line Item Number / Title: <br> KC046A / KC-46A MDAP

 BSA 2: Tactical Aircraft| ID Code (A=Service Ready, B=Not Service Ready): B | Program Elements for Code B Items: 0401221F | Other Related Program Elements: 0401221F |
| :--- | :--- | :--- | :--- |

Line Item MDAP/MAIS Code: N/A

| Resource Summary | Prior <br> Years | FY 2020 | FY 2021 | FY 2022 Base | $\begin{gathered} \text { FY } 2022 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \text { FY } 2022 \\ \text { Total } \end{gathered}$ | FY 2023 | FY 2024 | FY 2025 | FY 2026 | To Complete | Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Procurement Quantity (Units in Each) | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Cost (\$ in Millions) | 0.038 | 5.213 | 4.085 | 1.984 | - | 1.984 | - | - | - | - | - | - |
| Less PY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Net Procurement (P-1) (\$ in Millions) | 0.038 | 5.213 | 4.085 | 1.984 | - | 1.984 | - | - | - | - | - | - |
| Plus CY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Total Obligation Authority (\$ in Millions) | 0.038 | 5.213 | 4.085 | 1.984 | - | 1.984 | - | - | - | - | - | - |
| (The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.) |  |  |  |  |  |  |  |  |  |  |  |  |
| Initial Spares (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Flyaway Unit Cost (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Unit Cost (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |

## Description:

The KC-46 will provide the capability to fuel joint and coalition receivers via a boom or drogue system on every mission and will also augment the airlift fleet with cargo, passenger, and aeromedical evacuation capabilities. The KC-46 will operate in day/night and adverse weather conditions to enable deployment, employment, sustainment, and redeployment of U.S. joint, allied, and coalition forces. The KC-46 will have communication, navigation, and surveillance equipment for world-wide operations; the capability to perform missions in chemical and biological environments; the ability to operate in up to medium threat environments with self-defense/protection (both active and passive) capabilities; and the necessary battle space awareness to mitigate survivability threats. The dynamics and mission urgency of the postproduction environment requires the program to maintain flexible and responsive posture to support a broad range of mission support needs. The KC-46 will continue to identify, design, develop, integrate, verify, certify, produce, install, field, and sustain a comprehensive range of non-recurring and recurring post-production, air vehicle enhancements and field support needs. These needs may originate from programmed Mobility Air Force (MAF) requirements, Combatant Commander Joint or Urgent Operational Needs (JUON/UON), non-programmed Federal Aviation Administration (FAA) directives, or correction of deficiency reports.

The KC-46 will continue to develop, field, and sustain warfighter capabilities to meet evolving threats and mission support requirements through Block or discrete modification or modernization programs depending on mission urgency, available funding, and programmatic and technical risks. Post-production requirements can include, but will not be limited to, avionics and structural systems/architecture and subsystem updates, general mission equipment updates and procurement, general sustainment support, studies and analyses, and correction of deficiency reports.

Other modifications to the KC-46 through the FYDP include, but are not limited to, R\&M, Safety Mods, Avionics and Flight Systems enhancements (described as the Pegasus Advanced Communications Suite (PACS) modification), efforts executed under the auspices of Pegasus Combat Capability (PC2) (M-Code Global Positioning System (GPS), Multifunctional Information Distribution Systems (MIDS) Enhancements, Advanced Communication Systems, Survivability and Mission Performance), requirements identified and supported by Major Command (MAJCOM)-approved 1067s, Higher Headquarters (HHQ) Enterprise Capability Collaboration Teams (i.e., High Value Airborne Asset [HVAA], Air Superiority 2030, and Multi-Domain Command and Control [MDC2]), Airworthiness Directives (ADs)/Service Bulletins (SBs), and Low Cost Modifications (LCMs).

Funding for this exhibit contained in PE 0401221F.
Funding may be used to address Diminishing Manufacturing Sources (DMS) issues.
This requirement (or modification) supports performance of a full financial audit as required by title 10 U.S.C. Chapter 9A, Sec 240-D.

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FY 2022 funding will support LCMs. FY 2022 funding also supports the integration of ADs/SBs and other reported issues to correct identified deficiencies, provide product improvements, and maintain FAA certification compliance for the aircraft.

Exhibit P-40, Budget Line Item Justification: PB 2022 Air Force
Date: May 2021
Appropriation / Budget Activity / Budget Sub Activity:
3010F: Aircraft Procurement, Air Force / BA 05: Modification of Inservice Aircraft /
BSA 3: Airlift Aircraft

## P-1 Line Item Number / Title: <br> C00500 / C-5

BSA 3: Airlift Aircraft
ID Code (A=Service Ready, B=Not Service Ready):
Program Elements for Code B Items: 0401119F, 0401897F
Other Related Program Elements: 0401119F, 0401897F
Line Item MDAP/MAIS Code: N/A

| Resource Summary | Prior <br> Years | FY 2020 | FY 2021 | $\begin{gathered} \text { FY } 2022 \\ \text { Base } \end{gathered}$ | $\begin{gathered} \text { FY } 2022 \\ \text { Oco } \end{gathered}$ | $\begin{gathered} \text { FY } 2022 \\ \text { Total } \end{gathered}$ | FY 2023 | FY 2024 | FY 2025 | FY 2026 | To Complete | Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Procurement Quantity (Units in Each) | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Cost (\$ in Millions) | 115.532 | 56.326 | 50.279 | 25.431 | - | 25.431 | - | - | - | - | - | - |
| Less PY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Net Procurement (P-1) (\$ in Millions) | 115.532 | 56.326 | 50.279 | 25.431 | - | 25.431 | - | - | - | - | - | - |
| Plus CY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Total Obligation Authority (\$ in Millions) | 115.532 | 56.326 | 50.279 | 25.431 | - | 25.431 | - | - | - | - | - | - |
| (The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.) |  |  |  |  |  |  |  |  |  |  |  |  |
| Initial Spares (\$ in Millions) | - | 2.053 | 0.409 | - | - | - | - | - | - | - | - | - |
| Flyaway Unit Cost (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Unit Cost (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |

## Description:

 troops and 36 standard 463-L pallets. Modifications increase operational capability while improving flight safety, reliability, and maintainability.
 a result of the reliability enhancement and re-engining program (RERP) modification.


 costs. Funding may also be used to address Diminishing Manufacturing Sources (DMS) through studies and analysis, bridge buys, life-of-type buys, etc.
 defense missions, domestic emergency responses, and providing military support to civil authorities.

These modifications support performance of a full financial audit as required by title 10 U.S.C. Chapter 9A, Sec 240-D.
Funding for this exhibit is contained in PE 0401119F and under mod line 8969, C-5 Training Systems (Training Mods), is contained in PE 0401897F

| Secondary Distribution |  | FY 2020 | FY 2021 | $\begin{gathered} \text { FY } 2022 \\ \text { Base } \end{gathered}$ | $\begin{gathered} \text { FY } 2022 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \text { FY } 2022 \\ \text { Total } \end{gathered}$ | FY 2023 | FY 2024 | FY 2025 | FY 2026 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| AF | Quantity | - | - | - | - | - | - | - | - | - |
|  | Total Obligation Authority | 46.262 | 39.524 | 22.163 | - | 22.163 | - | - | - | - |
| AFR | Quantity | - | - | - | - | - | - | - | - | - |

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*** Although this is an Exhibit P-40a item, the actual exhibit is not included since all of the required information for this item is already being shown here.
*Title represents 1) the Number / Title for Items; 2) the Number / Title [DODIC] for Ammunition; and/or 3) the Number / Title (Modification Type) for Modifications.
Note: Totals in this Exhibit P-40 set may not be exact or sum exactly due to rounding.

Justification:
Where applicable, justification for individual modifications is provided in the P-3A exhibits.

Exhibit P-3a, Individual Modification: PB 2022 Air Force

## Appropriation / Budget Activity / Budget Sub Activity:

 3010F/05/3
## P-1 Line Item Number / Title: C00500 / C-5

Date: May 2021

## Modification Number / Title:

8967 / Mission Computer and Weather Radar

| ID Code (A=Service Ready, $B=$ Not Service Ready) : B | MDAP/MAIS Code: |
| :--- | :--- | :--- |


| Resource Summary | Prior Years | FY 2020 | FY 2021 | FY 2022 Base | FY 2022 OCO | FY 2022 Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Procurement Quantity (Units in Each) | - | - | - | - | - | - |
| Gross/Weapon System Cost (\$ in Millions) | 64.602 | 16.238 | 10.473 | 11.844 | 0.000 | 11.844 |
| Less PY Advance Procurement (\$ in Millions) | - | - | - | - | - | - |
| Net Procurement (P-1) (\$ in Millions) | 64.602 | 16.238 | 10.473 | 11.844 | 0.000 | 11.844 |
| Plus CY Advance Procurement (\$ in Millions) | - | - | - | - | - | - |
| Total Obligation Authority (\$ in Millions) | 64.602 | 16.238 | 10.473 | 11.844 | 0.000 | 11.844 |
| (The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.) |  |  |  |  |  |  |
| Initial Spares (\$ in Millions) | 3.606 | - | - | - | - | - |
| Gross/Weapon System Unit Cost (\$ in Millions) | - | - | - | - | - | - |

## Description:




 total of 52 aircraft; 2 during Engineering and Manufacturing Development and 50 during Production.

 processing module (CPM) cards in the CMC with new Honeywell CPM II cards, providing additional processing speed and throughput capacity.


 Manufacturing Sources (DMS) through studies and analysis, bridge buys, life-of-type buys, etc.

There are a total of 8 trainers to be updated; 6 weapon systems trainers (WST) and 2 aircrew maintenance system trainers (AMST).

 contractor facility.

Milestone/Development Status
Development complete

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| Exhibit P-3a, Individual Modification: PB 2022 Air Force |  |  |  |  | Date: May 2021 <br> Modification Number / Title: <br> 8967 / Mission Computer and Weather Radar |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 3 |  | P-1 Line Item Number / Title: C00500 / C-5 |  |  |  |  |
| ID Code (A=Service Ready, B=Not Service Ready) : B |  |  | MDAP/MAIS Code: |  |  |  |
| Secondary Distribution |  | FY 2020 | FY 2021 | $\begin{aligned} & \text { FY } 2022 \\ & \text { Base } \end{aligned}$ | $\begin{aligned} & \text { FY } 2022 \\ & \text { OCO } \end{aligned}$ | $\begin{gathered} \text { FY } 2022 \\ \text { Total } \end{gathered}$ |
| AF | Quantity | - | - | - | - | - |
|  | Total Obligation Authority | 11.279 | 9.637 | 8.992 | - | 8.992 |
| AFR | Quantity | - | - | - | - | - |
|  | Total Obligation Authority | 4.959 | 0.836 | 2.852 | - | 2.852 |
| Total: <br> Secondary Distribution | Quantity | - | $\cdot$ | - | $\cdot$ | - |
|  | Total Obligation Authority | 16.238 | 10.473 | 11.844 | 0.000 | 11.844 |


| Exhibit P-3a, Individual Modification: PB 2022 Air Force |  |  |  |  | Date: May 2021 <br> Modification Number / Title: <br> 8967 I Mission Computer and Weather Radar |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 3 |  | P-1 Line Item Number / Title: C00500 / C-5 |  |  |  |  |
| ID Code (A=Service Ready, B=Not Service Ready) : B |  |  | MDAP/MAIS Code: |  |  |  |
| Models of Systems Affected: C-5M | Modification Type: Other |  |  | Related RDT\&E PEs: 0401119F |  |  |
|  | Prior Years | FY 2020 | FY 2021 | FY 2022 Base | FY 2022 OCO | FY 2022 Total |
|  | $\begin{gathered} \text { Qty (Each) I } \\ \text { Total Cost (\$ M) } \\ \hline \end{gathered}$ | $\begin{gathered} \text { Qty (Each) I } \\ \text { Total Cost (\$M) } \\ \hline \end{gathered}$ | $\begin{gathered} \text { Qty (Each) I } \\ \text { Total Cost }(\$ M) \end{gathered}$ | $\begin{gathered} \text { Qty (Each) I } \\ \text { Total Cost (\$ M) } \\ \hline \end{gathered}$ | $\begin{gathered} \text { Qty (Each) I } \\ \text { Total Cost }(\$ \text { M) } \\ \hline \end{gathered}$ | Qty (Each) I Total Cost (\$ M) |
| RDT\&E PE \# |  |  |  |  |  |  |
| 0401119F | 2197.080 | 1. | 1. | - 1 - | - 1- | 1. |
| Procurement |  |  |  |  |  |  |
| Modification Item 1 of 1: CMC/W×Radar |  |  |  |  |  |  |
| A Kits |  |  |  |  |  |  |
| Recurring |  |  |  |  |  |  |
| CMC/WxRadar:INSTALL KITS Group A (Active) | 21/2.585 | 11/1.282 | 2/0.319 | - 1. | -1. | 1. |
| CMC/W×Radar:INSTALL KITS Group A (Reserve) | 8/0.959 | 7/0.816 | 1/0.159 | - 1- | -1- | -1- |
| Subtotal: Recurring | - 13.544 | - 12.098 | - 10.478 | - 1- | - 1- | - 1- |
| B Kits |  |  |  |  |  |  |
| Recurring |  |  |  |  |  |  |
| CMC/W×Radar:EQUIPMENT Group B (Active) | 21/13.165 | $11 / 6.511$ | $2 / 1.354$ | - 1- | -1- | - 1- |
| CMC/W×Radar:EQUIPMENT Group B (Reserve) | 8/5.006 | 7/4.143 | 1/0.677 | - 1- | - 1- | - 1 - |
| Subtotal: Recurring | - /18.171 | - /10.654 | - /2.031 | 1 - | -1 | - 1 - |
| Subtotal: CMC/WxRadar | - /21.715 | - /12.752 | - 12.509 | - 1 - | - 1- | - 1- |
| Subtotal: Procurement, All Modification Items | - 121.715 | - /12.752 | - 12.509 | - 1 | - 1 | - 1 - |
| Support (All Modification Items) |  |  |  |  |  |  |
| GROUP B: TOTAL NONRECURRING | - 10.434 | - 1- | - 1- | - 1- | - 1 - | 1. |
| Mod of Spares | - 114.629 | 1 - | 1. | 1. | -1- | 1. |
| SIM/TRAINER | 2/9.396 | 3/2.833 | $2 / 6.639$ | 1/4.198 | - 1- | 1/4.198 |
| SUPPORT-EQUIP | - 10.834 | - 1 - | - 1 - | - 1- | -1. | 1. |
| PMA - Other Gov't Costs | - 12.196 | - 10.010 | - 10.034 | - 10.141 | 1 - | - 10.141 |
| PMA - Contractor Services | - 14.371 | - 1 - | - 1 - | - 10.157 | -1. | - 10.157 |
| A\&AS | - 15.496 | - 1 | -1- | - 1 - | -1- | - 1 - |
| OTHER GOVT | - 1 - | - 1- | - 10.044 | - 10.218 | -1- | - 10.218 |
| ICS-Material | - 10.093 | - 1 - | - 1 - | - 1 - | -1. | - 1 - |
| ICS-Labor | - 10.373 | - 1- | - 1- | - 1 - | - 1- | - 1 - |
| Subtotal: Support | 2/37.822 | 3/2.843 | 2/6.717 | 1/4.714 | - 1- | 1/4.714 |
| Installation |  |  |  |  |  |  |
| Modification Item 1 of 1: CMC/W×Radar | $0 / 5.065$ | 0/0.643 | 4/1.247 | 13/7.130 | - 1- | 13/7.130 |
| Subtotal: Installation | - 15.065 | - 10.643 | 4/1.247 | 13/7.130 | - 1- | 13/7.130 |
| Total |  |  |  |  |  |  |

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Exhibit P-3a, Individual Modification: PB 2022 Air Force Appropriation / Budget Activity / Budget Sub Activity: 3010F/05/3

## P-1 Line Item Number / Title: <br> C00500 / C-5

Date: May 2021

## Modification Number / Title:

8968 / C-5M Communication Navigation Surveillance/Air Traffic Management (CNS/ATM)

ID Code (A=Service Ready, B=Not Service Ready) : B

| Resource Summary | Prior Years | FY 2020 | FY 2021 | FY 2022 Base | FY 2022 OCO | FY 2022 Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Procurement Quantity (Units in Each) | - | - | - | - | - | - |
| Gross/Weapon System Cost (\$ in Millions) | 17.433 | 31.346 | 26.940 | 5.101 | 0.000 | 5.101 |
| Less PY Advance Procurement (\$ in Millions) | - | - | - | - | - | - |
| Net Procurement (P-1) (\$ in Millions) | 17.433 | 31.346 | 26.940 | 5.101 | 0.000 | 5.101 |
| Plus CY Advance Procurement (\$ in Millions) | - | - | - | - | - | - |
| Total Obligation Authority (\$ in Millions) | 17.433 | 31.346 | 26.940 | 5.101 | 0.000 | 5.101 |
| (The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.) |  |  |  |  |  |  |
| Initial Spares (\$ in Millions) | 4.336 | 2.053 | 0.409 | 0.000 | 0.000 | 0.000 |
| Gross/Weapon System Unit Cost (\$ in Millions) | - | - | - | - | - | - |

## Description:


















 be used to address Diminishing Manufacturing Sources (DMS) through studies and analysis, bridge buys, life-of-type buys, etc.

Milestone/Development Status

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| Exhibit P-3a, Individual Modification: PB 2022 Air Force |  |  |  | Date: May 2021 |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 3 | P-1 Line Item Number / Title: C00500 / C-5 |  |  | Modification Number / Title: <br> 8968 / C-5M Communication Navigation Surveillance/Air Traffic Management (CNS/ATM) |  |
| ID Code (A=Service Ready, B=Not Service Ready) : B |  | MDAP/MAIS Code: |  |  |  |
| Secondary Distribution | FY 2020 | FY 2021 | $\begin{gathered} \hline \text { FY } 2022 \\ \text { Base } \end{gathered}$ | $\begin{gathered} \text { FY } 2022 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \text { FY } 2022 \\ \text { Total } \end{gathered}$ |
| AF ${ }^{\text {a }}$ | - | - | - | - | - |
| Total Obligation Authority | 27.931 | 20.407 | 4.832 | 2 | 4.832 |
| AFR ${ }^{\text {AF }}$ | - | - | - | - | - |
| Total Obligation Authority | 3.415 | 6.533 | 0.269 | 9 | 0.269 |
| Total: Quantity $^{4}$ | - | - | - | $\square$ | - |
| Secondary Distribution Total Obligation Authority | 31.346 | 26.940 | 5.101 | 10.000 | 5.101 |


| Exhibit P-3a, Individual Modification: PB 2022 Air Force |  |  |  |  | Date: May 2021 |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 3 |  | P-1 Line Item Number / Title: C00500 / C-5 |  |  | Modification Number / Title: <br> 8968 / C-5M Communication Navigation Surveillance/Air Traffic Management (CNS/ATM) |  |
| ID Code (A=Service Ready, B=Not Service Ready) : B |  |  | MDAP/MAIS Code: |  |  |  |
| Models of Systems Affected: C-5M | Modification Type: Capability Improvement |  |  | Related RDT\&E PEs: 0401119F |  |  |
|  | Prior Years | FY 2020 | FY 2021 | FY 2022 Base | FY 2022 OCO | FY 2022 Total |
|  | $\begin{gathered} \text { Qty (Each) I } \\ \text { Total Cost (\$ M) } \end{gathered}$ | $\begin{gathered} \text { Qty (Each) I } \\ \text { Total Cost (\$ M) } \end{gathered}$ | $\begin{gathered} \text { Qty (Each)I } \\ \text { Total Cost (\$M) } \end{gathered}$ | $\begin{gathered} \text { Qty (Each)I } \\ \text { Total Cost (\$ M) } \end{gathered}$ | $\begin{gathered} \text { Qty (Each) I } \\ \text { Total Cost (\$ M) } \end{gathered}$ | $\begin{gathered} \text { Qty (Each)I } \\ \text { Total Cost (\$M) } \end{gathered}$ |
| RDT\&E PE\# |  |  |  |  |  |  |
| 0401119F | 2/113.040 | - 1- | - 1- | - 1 - | - 1. | - 1. |
| Procurement |  |  |  |  |  |  |
| Modification Item 1 of 1: CNS/ATM |  |  |  |  |  |  |
| A Kits |  |  |  |  |  |  |
| Recurring |  |  |  |  |  |  |
| CNS/ATM:INSTALL KITS Group A (Active) | 14/0.716 | 14/0.722 | 6/0.350 | - 1- | - 1- | - 1 - |
| CNS/ATM:INSTALL KITS Group A (Reserve) | 7/0.358 | 5/0.258 | 4/0.233 | - 1- | -1- | 1. |
| Subtotal: Recurring | - 11.074 | - 10.980 | - 10.583 | - 1- | - 1- | - 1- |
| B Kits |  |  |  |  |  |  |
| Recurring |  |  |  |  |  |  |
| CNS/ATM: EQUIPMENT Group B (Active) | 1417.955 | 1418.838 | 6/3.592 | - 1 - | - 1. | - 1. |
| CNS/ATM:EQUIPMENT Group B (Reserve) | 7/3.978 | 5/3.157 | 4/2.395 | - 1 - | - 1 - | - 1 - |
| Subtotal: Recurring | - /11.933 | - /11.995 | - 15.987 | - 1 - | - 1 - | - 1 - |
| Subtotal: CNS/ATM | - /13.007 | - /12.975 | - 16.570 | - 1- | - 1- | - 1 - |
| Subtotal: Procurement, All Modification Items | - /13.007 | - /12.975 | - 16.570 | - 1- | 1. | 1. |
| Support (All Modification Items) |  |  |  |  |  |  |
| SUPPORT-EQUIP | - 1 - | - 10.034 | - 10.129 | - $1-$ | - 1 - | - 1- |
| ICS-Labor | - 10.139 | - 10.242 | - 10.444 | - 10.770 | - 1- | - 10.770 |
| ICS-Material | - 10.035 | - 10.061 | - 10.111 | - 10.193 | - 1- | - 10.193 |
| SIM/TRAINER | - 1- | 6/5.524 | 217.359 | - 1 - | - 1 - | - 1 - |
| Change Orders | - 11.417 | - 19.583 | - 10.265 | - 1- | - 1- | - 1- |
| A\&AS | - 1- | - 1- | - 14.917 | - 1- | - 1- | 1 - |
| OTHER GOVT | - 1 - | - 11.970 | - 11.065 | - 10.226 | - 1- | - 10.226 |
| PMA - Other Gov't Costs | - 12.835 | - 10.847 | - 10.755 | - 10.588 | - 1- | - 10.588 |
| PMA - Contractor Services | - 1 - | - 10.110 | - 1 - | - 1 - | - 1- | 1 - |
| Subtotal: Support | - 14.426 | 6/18.371 | 2/15.045 | - /1.777 | $1-$ | - 11.777 |
| Installation |  |  |  |  |  |  |
| Modification Item 1 of 1: CNS/ATM | - 1 - | - 1 - | 4/5.325 | 13/3.324 | - 1 - | 13/3.324 |
| Subtotal: Installation | - 1 - | 010.000 | 4/5.325 | 13/3.324 | - 1- | 13/3.324 |

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| Exhibit P-3a, Individual Modification: PB 2022 Air Force |  |  |  |  | Date: May 2021 |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 3 |  | P-1 Line Item Number / Title: C00500 / C-5 |  |  | Modification Number / Title: <br> 8968 / C-5M Communication Navigation Surveillance/Air Traffic Management (CNS/ATM) |  |
| ID Code (A=Service Ready, B=Not Service Ready) : B |  | MDAP/MAIS Code: |  |  |  |  |
| Models of Systems Affected: C-5M | Modification Type: Capability Improvement |  |  | Related RDT\&E PEs: 0401119F |  |  |
|  | Prior Years | FY 2020 | FY 2021 | FY 2022 Base | FY 2022 OCO | FY 2022 Total |
| Financial Plan | $\begin{gathered} \text { Qty (Each) I } \\ \text { Total Cost (\$M) } \end{gathered}$ | $\begin{gathered} \text { Qty (Each) I } \\ \text { Total Cost (\$M) } \end{gathered}$ | $\begin{gathered} \text { Qty (Each) I } \\ \text { Total Cost }(\$ M) \end{gathered}$ | $\begin{gathered} \text { Qty (Each) I } \\ \text { Total Cost }(\$ M) \end{gathered}$ | $\begin{gathered} \hline \text { Qty (Each)I } \\ \text { Total Cost (\$M) } \end{gathered}$ | $\begin{gathered} \hline \text { Qty (Each) I } \\ \text { Total Cost (\$ M) } \end{gathered}$ |
| Total |  |  |  |  |  |  |
| Total Cost (Procurement + Support + Installation) |  |  |  |  |  | 5.101 |

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Exhibit P-40, Budget Line Item Justification: PB 2022 Air Force
Date: May 2021
Appropriation / Budget Activity / Budget Sub Activity:
3010F: Aircraft Procurement, Air Force / BA 05: Modification of Inservice Aircraft /
BSA 3: Airlift Aircraft

## P-1 Line Item Number / Title:

C01700 / C-17A

Program Elements for Code B Items: 0401130F Other Related Program Elements: 0401130F

## Line Item MDAP/MAIS Code: N/A

| Resource Summary | Prior <br> Years | FY 2020 | FY 2021 | $\text { FY } 2022$ Base | $\begin{gathered} \text { FY } 2022 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \text { FY } 2022 \\ \text { Total } \end{gathered}$ | FY 2023 | FY 2024 | FY 2025 | FY 2026 | To Complete | Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Procurement Quantity (Units in Each) | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Cost (\$ in Millions) | 380.519 | 55.916 | 44.798 | 59.570 | - | 59.570 | - | - | - | - | - | - |
| Less PY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Net Procurement (P-1) (\$ in Millions) | 380.519 | 55.916 | 44.798 | 59.570 | - | 59.570 | - | - | - | - | - | - |
| Plus CY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Total Obligation Authority (\$ in Millions) | 380.519 | 55.916 | 44.798 | 59.570 | - | 59.570 | - | - | - | - | - | - |
| (The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.) |  |  |  |  |  |  |  |  |  |  |  |  |
| Initial Spares (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Flyaway Unit Cost (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Unit Cost (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |

## Description:

This line item funds modifications to the C-17 aircraft and Training Systems. The United States Air Force (USAF) C-17 inventory is 222 aircraft. The four engine C-17 is the only aircraft capable of routine delivery of outsize cargo (tanks, helicopters, etc.) to short, austere airfields. The aircraft can carry up to 102 troops, 36 litter patients, or 18 standard 463-L pallets.

 Mobility missions.
 maintenance initiatives, and cockpit situational awareness.
 defense missions, domestic emergency responses and providing military support to civil authorities.

Funding for this exhibit is contained in PE 0401130F and 0401897F.

| Secondary Distribution |  | FY 2020 | FY 2021 | FY 2022 Base | $\begin{aligned} & \text { FY } 2022 \\ & \text { OCO } \end{aligned}$ | $\begin{gathered} \text { FY } 2022 \\ \text { Total } \end{gathered}$ | FY 2023 | FY 2024 | FY 2025 | FY 2026 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| AF | Quantity | - | - | - | - | - | - | - | - | - |
|  | Total Obligation Authority | 47.544 | 36.420 | 45.572 | - | 45.572 | - | - | - | - |
| AFNG | Quantity | - | - | - | - | - | - | - | - | - |
|  | Total Obligation Authority | 5.980 | 5.948 | 9.555 | - | 9.555 | - | - | - | - |
| AFR | Quantity | - | - | - | - | - | - | - | - | - |
|  | Total Obligation Authority | 2.392 | 2.430 | 4.443 | - | 4.443 | - | - | - | - |

Page 1 of 11

## UNCLASSIFIED

| Exhibit P-40, Budget Line Item Justification: PB 2022 Air Force |  |  |  |  |  |  |  | Date: May 2021 |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: <br> 3010F: Aircraft Procurement, Air Force / BA 05: Modification of Inservice Aircraft / <br> BSA 3: Airlift Aircraft |  |  |  |  | P-1 Line Item Number / Title: C01700 / C-17A |  |  |  |  |  |
| ID Code (A=Service Ready | Not Service Ready: B | Program Elements for Code B Items: 0401130F |  |  |  | Other Related Program Elements: 0401130F |  |  |  |  |
| Line Item MDAP/MAIS Code: N/A |  |  |  |  |  |  |  |  |  |  |
| Secondary Distribution |  | FY 2020 | FY 2021 | $\begin{gathered} \hline \text { FY } 2022 \\ \text { Base } \end{gathered}$ | $\begin{aligned} & \text { FY } 2022 \\ & \text { OCO } \end{aligned}$ | $\begin{aligned} & \text { FY } 2022 \\ & \text { Total } \end{aligned}$ | FY 2023 | FY 2024 | FY 2025 | FY 2026 |
| Total: | Quantity | - | - | - | - | - | - | - | - | - |
| Secondary Distribution | Total Obligation Authority | 55.916 | 44.798 | 59.570 | - | 59.570 | - | - | - | - |

Exhibit P-40, Budget Line Item Justification: PB 2022 Air Force
Date: May 2021
Appropriation / Budget Activity / Budget Sub Activity:
3010F: Aircraft Procurement, Air Force / BA 05: Modification of Inservice Aircraft /
BSA 3: Airlift Aircraft

## P-1 Line Item Number / Title:

C01700 / C-17A
BSA 3: Airlift Aircraft

| ID Code (A=Service Ready, B=Not Service Ready): B | Program Elements for Code B Items: 0401130F | Other Related Program Elements: 0401130F |
| :--- | :--- | :--- |

Line Item MDAP/MAIS Code: N/A

| Exhibits Schedule |  |  |  |  | Prior Years | FY 2020 | FY 2021 | FY 2022 Base | FY 2022 OCO | FY 2022 Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Exhibit Type | Title* | Subexhibits | $\begin{aligned} & \text { ID } \\ & \text { CD } \end{aligned}$ | MDAP/ MAIS Code | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) |
| P-40a*** | _2000 / Pylon Stub FFLZ, FF, Translating Fairing (Safety) |  |  |  | - 194.544 | 1 | - 10.948 | - 10.627 | - 1 | - 10.627 |
| P-40a*** | _2590 / ELT Frequency Change (Capability Improvement) |  |  |  | - 15.182 | - 1 - | - 1 | - 1 | 1 | 1 |
| P-40a*** | _2633 / MFOQA (Capability Improvement) |  |  |  | - / 14.070 | 1 | 1 | - 1 | - 1 | - 1 - |
| P-40a*** | 1508 / IFF GATM (Capability Improvement) |  |  |  | - /124.543 | - 1 - | - 10.050 | - 1 - | - 1 - | - 1 - |
| P-40a*** | 2901 / Automatic Dependent Surveillance - Broadcast Out (ADS-B Out) (Capability Improvement) |  |  |  | - / 83.887 | 1 | - 1 - | 1 | -1 | -1 |
| P-40a*** | 6403 / Filter Fire Mitigation (Capability Improvement) |  |  |  | - 1 - | - 11.870 | - 1 - | - 11.780 | 1 | - 11.780 |
| P-40a*** | 9740 / Fixed Installation Satellite Antenna (FISA) (Capability Improvement) |  |  |  | - 17.079 | - 1 - | - 10.000 | 1 | 1 | 1 |
| P-40a*** | 9742 / C-17 Simulator Lateral Motion Maneuver Enhancement (Other) |  |  |  | - 11.438 | 1 | - 1 | 1 | - 1 | 1 |
| P-40a*** | 9744 / C-17 Visual System Field of View (Other) |  |  |  | - 11.008 | 1 | 1 | - 1 - | - 1 | - 1 - |
| P-40a*** | 9747 / C-17 Training System (Other Mods) (Other) |  |  |  | - 13.739 | - 10.860 | - 17.728 | - 19.585 | - 1 | - 19.585 |
| P-40a*** | 99999X / Low Cost Modifications (Capability Improvement) |  |  |  | - 13.246 | - 13.617 | - 11.106 | - 10.100 | 1 | - 10.100 |
| P-3a | 3080 / Replacement Heads Up Display (RHUD) (Capability Improvement) |  | B |  | - $/ 41.270$ | - / 46.630 | - / 33.599 | - / 36.307 | - 10.000 | / 36.307 |
| P-3a | 9741 / Beyond Line of Sight (BLOS) (Capability Improvement) |  | B |  | - 10.513 | - 12.939 | - /1.367 | - / 11.171 | - 10.000 | 111.171 |
| P-40 | Total Gross/Weapon System Cost |  |  |  | - 1380.519 | - 155.916 | - 144.798 | - 159.570 | - 1 | - 159.570 |

*** Although this is an Exhibit P-40a item, the actual exhibit is not included since all of the required information for this item is already being shown here.
*Title represents 1) the Number / Title for Items; 2) the Number / Title [DODIC] for Ammunition; and/or 3) the Number / Title (Modification Type) for Modifications.
Note: Totals in this Exhibit P-40 set may not be exact or sum exactly due to rounding.

Justification:
Major C-17 modifications in FY22 include: Replacement Heads Up Display (RHUD), Beyond Line of Sight (BLOS), and Training Systems.

| Exhibit P-3a, Individual Modification: PB 2022 Air Force |  |  |  |  | Date: May 2021 |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 3 | P-1 Line Item Number / Title:C01700 / C-17A |  |  |  | Modification Number / Title: <br> 3080 / Replacement Heads Up Display <br> (RHUD) |  |
| ID Code (A=Service Ready, $\mathrm{B}=$ Not Service Ready) : B | MDAP/MAIS Code: |  |  |  |  |  |
| Resource Summary | Prior Years | FY 2020 | FY 2021 | FY 2022 Base | FY 2022 OCO | FY 2022 Total |
| Procurement Quantity (Units in Each) | - | - | - | - | - | - |
| Gross/Weapon System Cost (\$ in Millions) | 41.270 | 46.630 | 33.599 | 36.307 | 0.000 | 36.307 |
| Less PY Advance Procurement (\$ in Millions) | - | - | - | - | - | - |
| Net Procurement (P-1) (\$ in Millions) | 41.270 | 46.630 | 33.599 | 36.307 | 0.000 | 36.307 |
| Plus CY Advance Procurement (\$ in Millions) | - | - | - | - | - | - |
| Total Obligation Authority (\$ in Millions) | 41.270 | 46.630 | 33.599 | 36.307 | 0.000 | 36.307 |
| (The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.) |  |  |  |  |  |  |
| Initial Spares (\$ in Millions) | - | - | - | - | - | - |
| Gross/Weapon System Unit Cost (\$ in Millions) | - | - | - | - | - | - |

## Description:




 follow on contract G3.

Projected allocations by component are subject to total force mission priorities and aircraft availability.
Funding may be used to address Diminishing Manufacturing Sources (DMS) issues.
Milestone/Development Status
The first RHUD was tested with RDT\&E funding in FY18. The first production kitproof kits were purchased in FY19 for FY20 installation.

| Secondary Distribution |  | FY 2020 | FY 2021 | $\begin{gathered} \text { FY } 2022 \\ \text { Base } \end{gathered}$ | $\begin{gathered} \text { FY } 2022 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \text { FY } 2022 \\ \text { Total } \end{gathered}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| AF | Quantity | - | - | - | - | - |
|  | Total Obligation Authority | 38.258 | 26.169 | 25.231 | - | 25.231 |
| AFNG | Quantity | - | - | - | - | - |
|  | Total Obligation Authority | 5.980 | 5.000 | 7.398 | - | 7.398 |
| AFR | Quantity | - | - | - | - | - |
|  | Total Obligation Authority | 2.392 | 2.430 | 3.678 | - | 3.678 |
| Total: <br> Secondary Distribution | Quantity | - | - | - | $\bullet$ | $\bullet$ |
|  | Total Obligation Authority | 46.630 | 33.599 | 36.307 | 0.000 | 36.307 |

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| Exhibit P-3a, Individual Modification: PB 2022 Air Force |  |  |  |  | Date: May 2021 <br> Modification Number / Title: <br> 3080 / Replacement Heads Up Display (RHUD) |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 3 |  | P-1 Line Item Number / Title: C01700 / C-17A |  |  |  |  |
| ID Code (A=Service Ready, B=Not Service Ready) : B |  |  | MDAP/MAIS Code: |  |  |  |
| Models of Systems Affected: C-17 | Modification Type: Capability Improvement |  |  | Related RDT\&E PEs: 0401130F |  |  |
| Financial Plan | Prior Years | FY 2020 | FY 2021 | FY 2022 Base | FY 2022 OCO | FY 2022 Total |
|  | Qty (Each) ! Total Cost (\$ M) | Qty (Each) ! Total Cost (\$ M) | $\begin{gathered} \text { Qty (Each) I } \\ \text { Total Cost }(\$ \text { M) } \end{gathered}$ | Qty (Each) I Total Cost (\$ M) | Qty (Each) I Total Cost (\$ M) | $\begin{gathered} \text { Qty (Each) I } \\ \text { Total Cost (\$M) } \end{gathered}$ |
| RDT\&E PE\# |  |  |  |  |  |  |
| 0401130F | - 1117.210 | - 1- | - 1 - | - 1 - | - 1- | - 1- |
| Procurement |  |  |  |  |  |  |
| Modification Item 1 of 1: RHUD |  |  |  |  |  |  |
| A Kits |  |  |  |  |  |  |
| Recurring |  |  |  |  |  |  |
| RHUD:INSTALL KITS Group A (Active) | 18/20.501 | 19/21.256 | 19/20.319 | 14/10.521 | - 1 - | 14/10.521 |
| RHUD:INSTALL KITS Group A (Guard) | 5/6.008 | 5/5.980 | 5/5.000 | 5/5.000 | -1- | 5/5.000 |
| RHUD:INSTALL KITS Group A (Reserve) | 212.000 | 212.392 | 212.430 | 212.430 | -1- | 212.430 |
| Subtotal: Recurring | - 128.509 | - 129.628 | - 127.749 | - /17.951 | - 1- | - /17.951 |
| Subtotal: RHUD | - /28.509 | - 129.628 | - 127.749 | - /17.951 | - 1 - | - /17.951 |
| Subtotal: Procurement, All Modification Items | - /28.509 | - /29.628 | - 127.749 | - /17.951 | - 1 - | - /17.951 |
| Support (All Modification Items) |  |  |  |  |  |  |
| OTHER GOVT | - 11.000 | - 12.000 | - 11.000 | - 10.045 | - 1 - | - 10.045 |
| SUPPORT-EQUIP | 1. | - 1 - | 1. | - 12.400 | 1 - | - 12.400 |
| SIM/TRAINER | $0 / 4.614$ | - 1 - | - 1 - | - 1 - | -1- | - 1 - |
| PMA - Other Gov't Costs | - 17.147 | - /14.002 | 13.855 | - 15.450 | - 1- | - 15.450 |
| Subtotal: Support | $0 / 12.761$ | - /16.002 | - 14.855 | - 17.895 | - 1- | - 17.895 |
| Installation |  |  |  |  |  |  |
| Modification Item 1 of 1: RHUD | - 1 - | 2/1.000 | 13/0.995 | $36 / 10.461$ | - 1 - | $36 / 10.461$ |
| Subtotal: Installation | - 1 - | 2/1.000 | 13/0.995 | $36 / 10.461$ | - 1 - | 36/10.461 |
| Total |  |  |  |  |  |  |
| Total Cost (Procurement + Support + Installation) | 41.270 | 46.630 | 33.599 | 36.307 | 0.000 | 36.307 |



| Method of Implementation: Depot |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Prior Years | FY 2020 | FY 2021 | FY 2022 Base | FY 2022 OCO | FY 2022 Total |
| Installation Cost | Qty (Each) I Total Cost (\$ M) | Qty (Each) I Total Cost (\$ M) | Qty (Each) I Total Cost (\$ M) | Qty (Each) I Total Cost (\$ M) | Qty (Each) I Total Cost (\$ M) | Qty (Each) I Total Cost (\$ M) |
| Prior Years | - 1 - | 1/0.500 | 6/0.475 | 4/1.248 | - 1 - | 4/1.248 |
| FY 2020 | - | - 1- | - 1 - | $12 / 3.744$ | - 1 - | $12 / 3.744$ |
| FY 2021 | -1. | - 1 | 1. | 1 - | - 1. | - 1 - |
| FY 2022 | - 1 | - 1 - | 1. | - 1. | 1 - | 1. |
| Total | - 1 - | 1/0.500 | 6/0.475 | 16/4.992 | - 1. | 16/4.992 |

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Exhibit P-3a, Individual Modification: PB 2022 Air Force

## Appropriation / Budget Activity / Budget Sub Activity:

 3010F / 05 / 3
## P-1 Line Item Number / Title:

C01700 / C-17A

## Modification Number / Title:

9741 / Beyond Line of Sight (BLOS)

ID Code (A=Service Ready, B=Not Service Ready) : B
MDAP/MAIS Code:


## Description:

 communications on the $\mathrm{C}-17$.



 encryption device used for secure HF communications (KYV-5 replaced with KYV-5M).

Funding may be used to address Diminishing Manufacturing Sources (DMS) issues. Project allocations by component are subject to total force mission priorities and aircraft availability.
Milestone/Development Status
Program Critical Design Review (CDR) complete Mar 2021. Plan to procure long-lead material (ARC-210 radios) in FY21 for FY23 low rate production (installs).

| Secondary Distribution |  | FY 2020 | FY 2021 | $\begin{gathered} \text { FY } 2022 \\ \text { Base } \end{gathered}$ | $\begin{gathered} \text { FY } 2022 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \text { FY } 2022 \\ \text { Total } \end{gathered}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| AF | Quantity | - | - | - | - | - |
|  | Total Obligation Authority | 2.939 | 1.367 | 8.876 | - | 8.876 |
| AFNG | Quantity | - | - | - | - | - |
|  | Total Obligation Authority | - | - | 1.530 | - | 1.530 |
| AFR | Quantity | - | - | - | - | - |
|  | Total Obligation Authority | - | - | 0.765 | - | 0.765 |
| Total: | Quantity | - | - | - | - | - |

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| Exhibit P-3a, Individual Modification: PB 2022 Air Force |  |  |  | Date: May 2021 <br> Modification Number / Title: 9741 / Beyond Line of Sight (BLOS) |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 3 | P-1 Line Item Number / Title: C01700 / C-17A |  |  |  |  |
| ID Code (A=Service Ready, B=Not Service Ready) : B |  | MDAP/MAIS Code: |  |  |  |
| Secondary Distribution | FY 2020 | FY 2021 | $\begin{gathered} \text { FY } 2022 \\ \text { Base } \end{gathered}$ | $\begin{aligned} & \text { FY } 2022 \\ & \text { OCO } \end{aligned}$ | $\begin{aligned} & \text { FY } 2022 \\ & \text { Total } \end{aligned}$ |
| Secondary Distribution Total Obligation Authority | 2.939 | 1.367 | 11.171 | 0.000 |  |

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| Exhibit P-3a, Individual Modification: PB 2022 Air Force |  |  |  |  | Date: May 2021 |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 3 |  | P-1 Line Item Number / Title: C01700 / C-17A |  |  | Modification Number / Title: 9741 / Beyond Line of Sight (BLOS) |  |
| ID Code (A=Service Ready, B=Not Service Ready) : B |  |  | MDAP/MAIS Code: |  |  |  |
| Models of Systems Affected: C-17 | Modification Type: Capability Improvement |  |  | Related RDT\&E PEs: 0401130F |  |  |
|  | Prior Years | FY 2020 | FY 2021 | FY 2022 Base | FY 2022 OCO | FY 2022 Total |
| Financial Plan | $\begin{gathered} \text { Qty (Each) I } \\ \text { Total Cost (\$ M) } \\ \hline \end{gathered}$ | $\begin{gathered} \text { Qty (Each)I } \\ \text { Total Cost (\$M) } \end{gathered}$ | $\begin{gathered} \text { Qty (Each) I } \\ \text { Total Cost (\$ M) } \end{gathered}$ | $\begin{gathered} \text { Qty (Each) I } \\ \text { Total Cost }(\$ M) \end{gathered}$ | $\begin{gathered} \text { Qty (Each)I } \\ \text { Total Cost (\$M) } \\ \hline \end{gathered}$ | $\begin{gathered} \text { Qty (Each) I } \\ \text { Total Cost }(\$ M) \\ \hline \end{gathered}$ |
| Procurement |  |  |  |  |  |  |
| Modification Item 1 of 1: Depot |  |  |  |  |  |  |
| B Kits |  |  |  |  |  |  |
| Recurring |  |  |  |  |  |  |
| Depot:EQUIPMENT Group B (Active) | 1/0.513 | 2/2.939 | - 1. | 715.355 | - 1- | 715.355 |
| Depot:EQUIPMENT Group B (Guard) | - 1- | - 1- | 1. | $2 / 1.530$ | - 1- | 211.530 |
| Depot:EQUIPMENT Group B (Reserve) | - 1 - | - 1 - | - 1- | 1/0.765 | - 1 | 1/0.765 |
| Subtotal: Recurring | - 10.513 | - 12.939 | - 1- | - 17.650 | - 1- | - 17.650 |
| Subtotal: Depot | - 10.513 | - 12.939 | - 1- | - 17.650 | - 1- | - 17.650 |
| Subtotal: Procurement, All Modification Items | - 10.513 | - 12.939 | 1. | - 17.650 | 1 | - 17.650 |
| Support (All Modification Items) |  |  |  |  |  |  |
| PMA - Other Gov't Costs | - $1-$ | - 1. | - 1 - | - 13.392 | - 1. | - 13.392 |
| SUPPORT-EQUIP | -1- | - 1 - | - 11.367 | - 1 - | - 1- | - 1 - |
| OTHER GOVT | - 1 - | - 1 - | - 1- | - 10.129 | 1. | - 10.129 |
| Subtotal: Support | - 1- | 1. | - /1.367 | - 13.521 | 1. | - 13.521 |
| Installation |  |  |  |  |  |  |
| Modification Item 1 of 1: Depot | - $1-$ | - 1- | - 1 - | 1/0.000 | - 1 - | 1/0.000 |
| Subtotal: Installation | -1. | - 1- | - 1- | 1/ - | - 1- | 1/ - |
| Total |  |  |  |  |  |  |
| Total Cost (Procurement + Support + Installation) | 0.513 | 2.939 | 1.367 | 11.171 | 0.000 | 11.171 |

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Exhibit P-40, Budget Line Item Justification: PB 2022 Air Force
Date: May 2021
Appropriation / Budget Activity / Budget Sub Activity:
3010F: Aircraft Procurement, Air Force / BA 05: Modification of Inservice Aircraft /
BSA 3: Airlift Aircraft

## P-1 Line Item Number / Title: <br> C02100 / C-21

| ID Code (A=Service Ready, B=Not Service Ready): |  |  | Program Ele | ments for Cod | e B Items: 0 | 1314F |  | Other Related | Program E | ments: 0401 | 314F |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Line Item MDAP/MAIS Code: N/A |  |  |  |  |  |  |  |  |  |  |  |  |
| Resource Summary | Prior <br> Years | FY 2020 | FY 2021 | FY 2022 Base | $\begin{gathered} \text { FY } 2022 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \text { FY } 2022 \\ \text { Total } \end{gathered}$ | FY 2023 | FY 2024 | FY 2025 | FY 2026 | To Complete | Total |
| Procurement Quantity (Units in Each) | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Cost (\$ in Millions) | 62.599 | 0.216 | 0.000 | 0.000 | - | 0.000 | - | - | - | - | - | - |
| Less PY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Net Procurement (P-1) (\$ in Millions) | 62.599 | 0.216 | 0.000 | 0.000 | - | 0.000 | - | - | - | - | - | - |
| Plus CY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Total Obligation Authority (\$ in Millions) | 62.599 | 0.216 | 0.000 | 0.000 | - | 0.000 | - | - | - | - | - | - |
| (The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.) |  |  |  |  |  |  |  |  |  |  |  |  |
| Initial Spares (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Flyaway Unit Cost (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Unit Cost (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |

## Description:

This line item funds low-cost modifications and service bulletins for nineteen (19) C-21A aircraft, commercial equivalent to the Learjet 35 . The C-21A aircraft is a twin-turbofan engine aircraft used for cargo

 Advisory and Assistant Services (A\&AS), system integration lab, trainers, equipment and other government costs.

Funding may be used to address Diminishing Manufacturing Sources Material Solutions (DMSMS) issues.
This requirement supports performance of a full financial audit as required by title 10 U.S.C. Chapter 9A, Sec 240-D.
Funding for this exhibit contained in PE 0401314F.
Justification:
No FY22 Funding requested.

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Exhibit P-40, Budget Line Item Justification: PB 2022 Air Force
Date: May 2021
Appropriation / Budget Activity / Budget Sub Activity:
3010F: Aircraft Procurement, Air Force / BA 05: Modification of Inservice Aircraft /
BSA 3: Airlift Aircraft

## P-1 Line Item Number / Title:

C03200 / C-32A

Program Elements for Code B Items: 0401314F Other Related Program Elements: 0401314F

## Line Item MDAP/MAIS Code: N/A

| Resource Summary | Prior <br> Years | FY 2020 | FY 2021 | $\begin{gathered} \text { FY } 2022 \\ \text { Base } \end{gathered}$ | $\begin{gathered} \text { FY } 2022 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \text { FY } 2022 \\ \text { Total } \end{gathered}$ | FY 2023 | FY 2024 | FY 2025 | FY 2026 | To Complete | Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Procurement Quantity (Units in Each) | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Cost (\$ in Millions) | 218.497 | 11.511 | 2.947 | 1.949 | - | 1.949 | - | - | - | - | - | - |
| Less PY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Net Procurement (P-1) (\$ in Millions) | 218.497 | 11.511 | 2.947 | 1.949 | - | 1.949 | - | - | - | - | - | - |
| Plus CY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Total Obligation Authority (\$ in Millions) | 218.497 | 11.511 | 2.947 | 1.949 | - | 1.949 | - | - | - | - | - | - |
| (The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.) |  |  |  |  |  |  |  |  |  |  |  |  |
| Initial Spares (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Flyaway Unit Cost (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Unit Cost (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |

## Description:



 modernization efforts.

Service bulletins and low cost modifications are necessary for continuing Federal Aviation Administration certification while improving flight safety, reliability, and maintainability.
Funding may be used to address Diminishing Manufacturing Sources and Material Shortages (DMSMS) issues.
This requirement supports performance of a full financial audit as required by title 10 U.S.C. Chapter 9A, Sec 240-D.
Funding for this exhibit is contained in PE 0401314F and 0504314F.

| Secondary Distribution |  | FY 2020 | FY 2021 | $\begin{gathered} \text { FY } 2022 \\ \text { Base } \end{gathered}$ | $\begin{aligned} & \text { FY } 2022 \\ & \text { OCO } \end{aligned}$ | $\begin{gathered} \text { FY } 2022 \\ \text { Total } \end{gathered}$ | FY 2023 | FY 2024 | FY 2025 | FY 2026 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| AF | Quantity | - | - | - | - | - | - | - | - | - |
|  | Total Obligation Authority | 9.603 | 1.009 | 0.010 | - | 0.010 | - | - | - | - |
| AFNG | Quantity | - | - | - | - | - | - | - | - | - |
|  | Total Obligation Authority | 1.908 | 1.938 | 1.939 | - | 1.939 | - | - | - | - |
| Total: <br> Secondary Distribution | Quantity | - | - | - | - | - | - | - | - | - |
|  | Total Obligation Authority | 11.511 | 2.947 | 1.949 | - | 1.949 | - | - | - | - |

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Justification:
FY22: Funding requested for Low Cost Modifications and FAA required Service Bulletins.

Exhibit P-40, Budget Line Item Justification: PB 2022 Air Force
Date: May 2021

## Appropriation / Budget Activity / Budget Sub Activity:

3010F: Aircraft Procurement, Air Force / BA 05: Modification of Inservice Aircraft / BSA 3: Airlift Aircraft

| ID Code (A=Service Ready, B=Not Service Ready): |  |  | Program Elements for Code B Items: 0401314F |  |  |  |  | Other Related Program Elements: 0401314F |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Line Item MDAP/MAIS Code: N/A |  |  |  |  |  |  |  |  |  |  |  |  |
| Resource Summary | Prior <br> Years | FY 2020 | FY 2021 | FY 2022 Base | $\begin{gathered} \text { FY } 2022 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \text { FY } 2022 \\ \text { Total } \end{gathered}$ | FY 2023 | FY 2024 | FY 2025 | FY 2026 | To Complete | Total |
| Procurement Quantity (Units in Each) | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Cost (\$ in Millions) | 18.055 | 0.435 | 12.985 | 5.984 | - | 5.984 | - | - | - | - | - | - |
| Less PY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Net Procurement (P-1) (\$ in Millions) | 18.055 | 0.435 | 12.985 | 5.984 | - | 5.984 | - | - | - | - | - | - |
| Plus CY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Total Obligation Authority (\$ in Millions) | 18.055 | 0.435 | 12.985 | 5.984 | - | 5.984 | - | - | - | - | - | - |
| (The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.) |  |  |  |  |  |  |  |  |  |  |  |  |
| Initial Spares (\$ in Millions) | - | - | - | 0.546 | - | 0.546 | - | - | - | - | - | - |
| Flyaway Unit Cost (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Unit Cost (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |

## Description:


 hours (average of 16,500 hours remaining). As the fleet nears the service life limits, additional evaluations are made for continued service
 trainers, equipment, other government costs, and Senior Leader Communications System modernization efforts

Service bulletins and low cost modifications are necessary for continuing Federal Aviation Administration (FAA) certification while improving flight safety, reliability, and maintainability.
Funding may be used to address Diminishing Manufacturing Sources and Material Shortages (DMSMS) issues.
Funding for this exhibit is contained in PE 0401314F.

Exhibit P-40, Budget Line Item Justification: PB 2022 Air Force

## Appropriation / Budget Activity / Budget Sub Activity: <br> 3010F: Aircraft Procurement, Air Force / BA 05: Modification of Inservice Aircraft /

 BSA 3: Airlift AircraftID Code (A=Service Ready, B=Not Service Ready):
Program Elements for Code B Items: 0401314F
P-1 Line Item Number / Title:
C03700 / C-37A

Other Related Program Elements: 0401314F

Line Item MDAP/MAIS Code: N/A

| Exhibits Schedule |  |  |  |  | Prior Years | FY 2020 | FY 2021 | FY 2022 Base | FY 2022 OCO | FY 2022 Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Exhibit Type | Title* | Subexhibits | $\begin{array}{\|l\|l\|} \hline \text { ID } \\ \text { CD } \end{array}$ | MDAP/ MAIS Code | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) |
| P-40a*** | 1117 / WIDEBAND SATCOM (Capability Improvement) |  |  |  | - 1- | - 1 - | - /12.985 | - 1- | - 1- | - 1- |
| P-40a*** | 1118 / CNS/ATM Compliance (Capability Improvement) |  |  |  | / 17.606 | - / - | - 1 - | - 1 - | - 1 - | - 1 - |
| P-40a*** | 99999S / SERVICE BULLETINS (Capability Improvement) |  |  |  | - $/$ - | - 10.100 | - 1 - | - 1 - | - 1 - | - 1 - |
| P-40a*** | 99999x / Low Cost Modifications (Capability Improvement) |  |  |  | - 10.449 | - 10.335 | - 1 - | - 1 - | - 1 - | - 1 - |
| P-3a | 1122 / SAT 906 (Capability Improvement) |  | A |  | 1 | 1 | - 1 - | - 15.984 | - 10.000 | - 15.984 |
| P-40 | Total Gross/Weapon System Cost |  |  |  | - /18.055 | - 10.435 | - /12.985 | - 15.984 | - 1 | - 15.984 |

*** Although this is an Exhibit P-40a item, the actual exhibit is not included since all of the required information for this item is already being shown here.
*Title represents 1) the Number / Title for Items; 2) the Number / Title [DODIC] for Ammunition; and/or 3) the Number / Title (Modification Type) for Modifications
Note: Totals in this Exhibit P-40 set may not be exact or sum exactly due to rounding.

## Justification

This program, P-3A Mod 1122, SAT 906, is a new start.
FY22: Two C-37 aircraft will receive MCS 7120 modifications to replace SAT 906.

| Exhibit P-3a, Individual Modification: PB 2022 Air Force |  |  |  |  | Date: May 2021 |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 3 | P-1 Line Item Number / Title: C03700 / C-37A |  |  |  | Modification Number / Title: 1122 I SAT 906 |  |
| ID Code (A=Service Ready, B=Not Service Ready) : A | MDAP/MAIS Code: |  |  |  |  |  |
| Resource Summary | Prior Years | FY 2020 | FY 2021 | FY 2022 Base | FY 2022 OCO | FY 2022 Total |
| Procurement Quantity (Units in Each) | - | - | - | - | - | - |
| Gross/Weapon System Cost (\$ in Millions) | - | - | - | 5.984 | 0.000 | 5.984 |
| Less PY Advance Procurement (\$ in Millions) | - | - | - | - | - | - |
| Net Procurement (P-1) (\$ in Millions) | - | - | - | 5.984 | 0.000 | 5.984 |
| Plus CY Advance Procurement (\$ in Millions) | - | - | - | - | - | - |
| Total Obligation Authority (\$ in Millions) | - | - | - | 5.984 | 0.000 | 5.984 |
| (The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.) |  |  |  |  |  |  |
| Initial Spares (\$ in Millions) | - | - | - | 0.546 | - | 0.546 |
| Gross/Weapon System Unit Cost (\$ in Millions) | - | - | - | - | - | - |

## Description:

This program, P-3A Mod 1122, SAT 906, is a new start.
Program requirement is to replace the SAT 906 satellite communications system with MCS-7120 on C-37A/B aircraft. The SAT 906 system is approaching obsolescence starting in FY22; spares will not be available for procurement and the system will no longer be repairable. The new MCS-7120 on the C-37A/B will provide aircrews the capability to communicate with Air Traffic Control (ATC) and will provide C-37 passengers several backup communication lines in order to conduct business while airborne. This installation satisfies C-37's FANS and ACARS certifications for direct communications between the crew and air traffic controllers regarding clearances, pilot requests and position reporting while airborne.

Loss of FANS or ACARS certification will greatly impact mission capability by causing C-37 to plan/fly non-optimal routes and altitudes, potentially increasing flight distance and time while decreasing fuel efficiency. It will also increase pilot workload by requiring more frequent position reporting to ATC, potentially leading to errors and increased safety risk.

This funding may include, but is not limited to, emerging requirements of support Program Management Administration (PMA), Administrative and Advisory support (A\&AS), system integration lab, trainers, equipment, and other government costs (OGC).

This capability is to be installed on 12 of 16 aircraft in the Air Force inventory. Four fleet-expansion C-37B aircraft (2 delivered in FY22) will have MCS-7120 installed during production.
This modification supports performance of a full financial audit as required by title 10 U.S.C. Chapter 9A, Sec 240-D.
Milestone/Development Status
Commercial off-the-shelf technology

## UNCLASSIFIED

| Exhibit P-3a, Individual Modification: PB 2022 Air Force |  |  |  |  | Date: May 2021 |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 3 |  | P-1 Line Item Number / Title: C03700 / C-37A |  |  | Modification Number / Title: 1122 / SAT 906 |  |
| ID Code (A=Service Ready, B=Not Service Ready) : A |  |  | MDAP/MAIS Code: |  |  |  |
| Models of Systems Affected: C-37 | Modification Type: Capability Improvement |  |  | Related RDT\&E PEs: |  |  |
|  |  |  |  | FY 2022 Base | FY 2022 OCO | FY 2022 Total |
| Financial Plan | $\begin{gathered} \text { Qty (Each) I } \\ \text { Total Cost (\$ M) } \\ \hline \end{gathered}$ | $\begin{gathered} \text { Qty (Each)I } \\ \text { Total Cost (\$M) } \end{gathered}$ | $\begin{gathered} \text { Qty (Each) I } \\ \text { Total Cost }(\$ \text { M) } \\ \hline \end{gathered}$ | $\begin{gathered} \text { Qty (Each) I } \\ \text { Total Cost }(\$ M) \end{gathered}$ | $\begin{gathered} \text { Qty (Each)I } \\ \text { Total Cost (\$M) } \\ \hline \end{gathered}$ | $\begin{gathered} \text { Qty (Each) I } \\ \text { Total Cost }(\$ M) \\ \hline \end{gathered}$ |
| Procurement |  |  |  |  |  |  |
| Modification Item 1 of 1: MCS-7120 |  |  |  |  |  |  |
| B Kits |  |  |  |  |  |  |
| Recurring |  |  |  |  |  |  |
| MCS-7120:EQUIPMENT Group B (Active) | - 1- | - 1 - | - 1 - | $2 / 1.800$ | - 1- | 2/1.800 |
| Subtotal: Recurring | - 1 - | - 1- | - 1- | - /1.800 | - 1- | - 11.800 |
| Subtotal: MCS-7120 | - 1- | - 1- | - 1- | - 11.800 | - 1- | - 11.800 |
| Subtotal: Procurement, All Modification Items | - 1 - | - 1 | - 1 - | - 11.800 | - 1 - | - 11.800 |
| Support (All Modification Items) |  |  |  |  |  |  |
| Mod of Spares | - 1 - | - 1- | - 1 - | - 10.546 | - 1- | - 10.546 |
| PMA - Contractor Services | - 1. | - 1 - | - 1 - | - 10.724 | - 1- | - 10.724 |
| Data | - 1- | - 1- | - 1 - | - 10.171 | - 1- | - 10.171 |
| Type 1 Training | - 1 | - 1 - | - 1 | - 10.001 | - 1- | - 10.001 |
| PMA - Other Gov't Costs | - 1- | - 1- | - 1- | - 11.842 | -1- | - 11.842 |
| Subtotal: Support | - 1 | 1 | - 1- | - 13.284 | 1. | - 13.284 |
| Installation |  |  |  |  |  |  |
| Modification Item 1 of 1: MCS-7120 | - 1 | - 1- | 1 - | 210.900 | - 1 - | 2/0.900 |
| Subtotal: Installation | - 1 - | - 1 - | - 1 - | 210.900 | - 1 - | 2/0.900 |
| Total |  |  |  |  |  |  |
| Total Cost (Procurement + Support + Installation) | - | - | - | 5.984 | 0.000 | 5.984 |

## UNCLASSIFIED



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Exhibit P-40, Budget Line Item Justification: PB 2022 Air Force
Date: May 2021
Appropriation / Budget Activity / Budget Sub Activity:
3010F: Aircraft Procurement, Air Force / BA 05: Modification of Inservice Aircraft /
BSA 4: Trainer Aircraft

## P-1 Line Item Number / Title: <br> GLID00 / Glider Mods

BSA 4: Trainer Aircraft

| ID Code (A=Service Ready, B=Not Service Ready): |  |  | Program Elem | ments for Cod | B Items: 08 | 4748F |  | Other Relat | Program E | ments: N/A |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Line Item MDAP/MAIS Code: N/A |  |  |  |  |  |  |  |  |  |  |  |  |
| Resource Summary | Prior <br> Years | FY 2020 | FY 2021 | FY 2022 Base | $\begin{gathered} \text { FY } 2022 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \text { FY } 2022 \\ \text { Total } \end{gathered}$ | FY 2023 | FY 2024 | FY 2025 | FY 2026 | To Complete | Total |
| Procurement Quantity (Units in Each) | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Cost (\$ in Millions) | 4.997 | 0.138 | 0.977 | 0.142 | - | 0.142 | - | - | - | - | - | - |
| Less PY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Net Procurement (P-1) (\$ in Millions) | 4.997 | 0.138 | 0.977 | 0.142 | - | 0.142 | - | - | - | - | - | - |
| Plus CY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Total Obligation Authority (\$ in Millions) | 4.997 | 0.138 | 0.977 | 0.142 | - | 0.142 | - | - | - | - | - | - |
| (The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.) |  |  |  |  |  |  |  |  |  |  |  |  |
| Initial Spares (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Flyaway Unit Cost (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Unit Cost (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |

## Description:

This line item funds modifications to the TG-15 and TG-16 gliders, T-41, T-51, T-53 and UV-18 aircraft used at the United States Air Force Academy. Among gliders there are two TG-15A aircraft with a design service life of 6,000 hours, three TG-15B aircraft with a design service life of 6,000 hours, and 18 TG-16A aircraft with a design service life of 12,000 hours. Powered flight consists of four T-41D aircraft with a design service life of 60,000 hours, three T-51A aircraft with a design service life of 60,000 hours and 24 T-53A aircraft with a design service life of 12,000 hours. To support parachute jumping there are three UV-18B aircraft with a design service life of 40,000 hours. The primary effort in FY22 is Low Cost Modifications, which includes UV-18B avionics modification, TG-15A/B avionics modification, various AF Academy simulator system procurements, FAA Service Bulletins, Air Worthiness Directives, Program Management and Administration, and studies.

This modification supports performance of a full financial audit as required by title 10 U.S.C. Chapter 9A, Sec 240-D
Funding for this exhibit contained in PE 0804748F.

## Justification:

Funding is required to ensure airworthiness of U.S. Air Force Academy aircraft and for low-cost modifications to extend service life, improve performance, and modernize the weapon systems.

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Exhibit P-40, Budget Line Item Justification: PB 2022 Air Force
Appropriation / Budget Activity / Budget Sub Activity:
3010F: Aircraft Procurement, Air Force / BA 05: Modification of Inservice Aircraft /
BSA 4: Trainer Aircraft

## P-1 Line Item Number / Title: <br> JPAT00 / T-6

BSA 4: Trainer Aircraft

| ID Code (A=Service Ready, B=Not Service Ready): |  |  | Program Elem | nts for Cod | B Items: | 233F, 080 | - | Other Rela | Program | ments: 060 | 33F |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Line Item MDAP/MAIS Code: N/A |  |  |  |  |  |  |  |  |  |  |  |  |
| Resource Summary | Prior <br> Years | FY 2020 | FY 2021 | FY 2022 Base | $\begin{gathered} \text { FY } 2022 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \text { FY } 2022 \\ \text { Total } \end{gathered}$ | FY 2023 | FY 2024 | FY 2025 | FY 2026 | To Complete | Total |
| Procurement Quantity (Units in Each) | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Cost (\$ in Millions) | 95.478 | 11.826 | 23.929 | 8.735 | - | 8.735 | - | - | - | - | - | - |
| Less PY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Net Procurement (P-1) (\$ in Millions) | 95.478 | 11.826 | 23.929 | 8.735 | - | 8.735 | - | - | - | - | - | - |
| Plus CY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Total Obligation Authority (\$ in Millions) | 95.478 | 11.826 | 23.929 | 8.735 | - | 8.735 | - | - | - | - | - | - |
| (The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.) |  |  |  |  |  |  |  |  |  |  |  |  |
| Initial Spares (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Flyaway Unit Cost (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Unit Cost (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |

## Description:



 used to address Diminishing Manufacturing Sources (DMS) issues.
 reducing the USAF Pilot Shortage

Funding for this exhibit contained in PE 0804740F
This modification supports performance of a full financial audit as required by title 10 U.S.C. Chapter 9A, Sec 240-D
The FY 2022 funding request was reduced by $\$ 5.235$ million to account for the availability of prior year execution balances.

Exhibit P-40, Budget Line Item Justification: PB 2022 Air Force
Date: May 2021

## P-1 Line Item Number / Title:

 JPAT00 / T-6Appropriation / Budget Activity / Budget Sub Activity:
3010F: Aircraft Procurement, Air Force / BA 05: Modification of Inservice Aircraft / BSA 4: Trainer Aircraft
ID Code (A=Service Ready, B=Not Service Ready):
Program Elements for Code B Items: 0604233F, 0804740F
Other Related Program Elements: 0604233F
Line Item MDAP/MAIS Code: N/A

| Exhibits Schedule |  |  |  |  | Prior Years | FY 2020 | FY 2021 | FY 2022 Base | FY 2022 OCO | FY 2022 Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Exhibit Type | Title* | Subexhibits | $\begin{array}{\|l\|l\|} \hline \text { ID } \\ \text { CD } \end{array}$ | MDAP/ MAIS Code | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) |
| P-40a*** | 9871 / T-6A Crash Survivable Recorder (Capability Improvement) |  |  |  | - 1- | - 1- | - /18.865 | - 14.342 | - 1- | - 14.342 |
| P-40a*** | 9873 / Canopy Fracture Initiation System (Reliability \& Maintainability) |  |  |  | - 11.131 | - 1 - | - 1 - | - 1 - | - 1 - | - 1 |
| P-40a*** | 9877 / Avionics Upgrades FAA Compliance (Reliability \& Maintainability) |  |  |  | / 22.974 | - 16.225 | - 1 - | 1 | 1 - | - 1 |
| P-40a*** | 9878 / Aircrew Training Device (ATD) Modernization (Capability Improvement) |  |  |  | - / 37.541 | - / 3.601 | - 13.093 | - 13.193 | - 1 - | - 13.193 |
| P-40a*** | 9892 / Reliability \& Maintainability (R\&M) Safety Mods (Safety) |  |  |  | - 1 - | 10.100 | - 10.071 | - 10.100 | - 1 - | - 10.100 |
| P-40a*** | 9893 / Crew System Modernization Program (Capability Improvement) |  |  |  | - / 30.600 | - 10.100 | - 10.100 | - 10.100 | - 1 - | - 10.100 |
| P-40a*** | 99999S / SERVICE BULLETINS (Service Life Extension) |  |  |  | - 1 - | 10.100 | - 10.100 | - 10.100 | - 1 - | - 10.100 |
| P-40a*** | 99999X / Low Cost Modifications (Capability Improvement) |  |  |  | - 13.232 | - 11.700 | - 11.700 | - 10.900 | - 1 - | - 10.900 |
| P-40 | Total Gross/Weapon System Cost |  |  |  | 195.478 | - 111.826 | - 123.929 | - 18.735 | - 1 - | - 18.735 |

*** Although this is an Exhibit P-40a item, the actual exhibit is not included since all of the required information for this item is already being shown here.
*Title represents 1) the Number / Title for Items; 2) the Number / Title [DODIC] for Ammunition; and/or 3) the Number / Title (Modification Type) for Modifications.
Note: Totals in this Exhibit P-40 set may not be exact or sum exactly due to rounding.

## Justification:

Primary efforts in FY 2022 include the T-6A Crash Survivable Recorder, Aircrew Training Device Modernization, and Low Cost Modifications.

Exhibit P-40, Budget Line Item Justification: PB 2022 Air Force
Date: May 2021
Appropriation / Budget Activity / Budget Sub Activity:
3010F: Aircraft Procurement, Air Force / BA 05: Modification of Inservice Aircraft /
BSA 4: Trainer Aircraft

## P-1 Line Item Number / Title: <br> T00100 / T-1

| ID Code (A=Service Ready, B=Not Service Ready): | Program Elements for Code B Items: 0804741F | Other Related Program Elements: N/A |
| :--- | :--- | :--- | :--- |

## Line Item MDAP/MAIS Code: N/A

| Resource Summary | Prior <br> Years | FY 2020 | FY 2021 | $\text { FY } 2022$ <br> Base | $\begin{gathered} \text { FY } 2022 \\ \text { Oco } \end{gathered}$ | $\begin{gathered} \text { FY } 2022 \\ \text { Total } \end{gathered}$ | FY 2023 | FY 2024 | FY 2025 | FY 2026 | To Complete | Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Procurement Quantity (Units in Each) | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Cost (\$ in Millions) | 75.625 | 19.147 | 4.465 | 3.872 | - | 3.872 | - | - | - | - | - | - |
| Less PY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Net Procurement (P-1) (\$ in Millions) | 75.625 | 19.147 | 4.465 | 3.872 | - | 3.872 | - | - | - | - | - | - |
| Plus CY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Total Obligation Authority (\$ in Millions) | 75.625 | 19.147 | 4.465 | 3.872 | - | 3.872 | - | - | - | - | - | - |
| (The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.) |  |  |  |  |  |  |  |  |  |  |  |  |
| Initial Spares (\$ in Millions) |  | 1.317 | - | - | - | - | - | - | - | - | - | - |
| Flyaway Unit Cost (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Unit Cost (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |

## Description:





 platform's documentation directly aids Air Education and Training Command (AETC) flying training enterprise.

 divestiture of the aircraft.
 configured T-1A aircraft. T-1A OFTs and PTTs will continue to be supported and will require modernization software upgrades.

 execution balances. This modification supports performance of a full financial audit as required by title 10 U.S.C. Chapter 9A, Sec 240-D

## Justification:

FY22 funding will procure 2 Operational Flight Trainers (OFTs) and 3 Part Task Trainers (PTTs) kits and installations.

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Appropriation / Budget Activity / Budget Sub Activity:
3010F: Aircraft Procurement, Air Force / BA 05: Modification of Inservice Aircraft /
BSA 4: Trainer Aircraft

## P-1 Line Item Number / Title: <br> T03800 / T-38

| ID Code (A=Service Ready, B=Not Service Ready): | Program Elements for Code B Items: 0804741F | Other Related Program Elements: 0604233F |
| :--- | :--- | :--- | :--- |
| Lit |  |  |

## Line Item MDAP/MAIS Code: N/A

| Resource Summary | Prior Years | FY 2020 | FY 2021 | $\begin{gathered} \text { FY } 2022 \\ \text { Base } \end{gathered}$ | $\begin{gathered} \text { FY } 2022 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \text { FY } 2022 \\ \text { Total } \end{gathered}$ | FY 2023 | FY 2024 | FY 2025 | FY 2026 | To Complete | Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Procurement Quantity (Units in Each) | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Cost (\$ in Millions) | 324.446 | 37.341 | 40.806 | 49.851 | - | 49.851 | - | - | - | - | - | - |
| Less PY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Net Procurement (P-1) (\$ in Millions) | 324.446 | 37.341 | 40.806 | 49.851 | - | 49.851 | - | - | - | - | - | - |
| Plus CY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Total Obligation Authority (\$ in Millions) | 324.446 | 37.341 | 40.806 | 49.851 | - | 49.851 | - | - | - | - | - | - |
| (The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.) |  |  |  |  |  |  |  |  |  |  |  |  |
| Initial Spares (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Flyaway Unit Cost (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Unit Cost (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |

## Description:



 sustained by upgrades and service life extensions.

 Airspace System, and to address flight safety issues. The block upgrades support the T-38C aircraft and Aircrew Training Devices.
 Station Software (GSS).


 USAF repair and maintenance costs.


 recording capability of the VDTU to handle the increased data flow.

Exhibit P-40, Budget Line Item Justification: PB 2022 Air Force

## Appropriation / Budget Activity / Budget Sub Activity: <br> 3010F: Aircraft Procurement, Air Force / BA 05: Modification of Inservice Aircraft /

P-1 Line Item Number / Title:
T03800 / T-38
BSA 4: Trainer Aircraft
ID Code (A=Service Ready, B=Not Service Ready):
Program Elements for Code B Items: 0804741F
Other Related Program Elements: 0604233F

## Line Item MDAP/MAIS Code: N/A

Flight Director/Attitude Heading and Reference System (AHARS) - Requirement to develop, integrate, and replace the Attitude Director Indicator (ADI), Horizontal Situation Indicator (HSI), Attitude Gyro Control Assembly, Rate Switching Gyro, Rate Gyro Transmitter, Servo-Amplifier, and Flight Director Computer for the T-38A/AT-38B. The intent of this effort is to significantly improve sub-system reliability, suitability, and pilot safety during flight operations.

Traffic Collision Avoidance System (TCAS) - to update firmware on approximately 448 T-38C TCAS units. The need for which derives from increased TCAS II processor failures resulting from increased squitter traffic associated with Automatic Dependent Surveillance - Broadcast (ADS-B) transmissions.

Speed Brake Open Warning Light - Is a new requirement that will require market research and an estimate.
Funding may be used to address Diminishing Manufacturing Sources (DMS) issues.
Funding for this exhibit contained in PE 0804741F.
This requirement for T-38 programs supports performance of a full financial audit as required by title 10 U.S.C. Chapter 9A, Sec 240-D "Audits: audit of financial statements of Department of Defense components by independent external auditors.

Exhibit P-40, Budget Line Item Justification: PB 2022 Air Force
Date: May 2021

## Appropriation / Budget Activity / Budget Sub Activity: <br> 3010F: Aircraft Procurement, Air Force / BA 05: Modification of Inservice Aircraft /

 BSA 4: Trainer Aircraft| ID Code (A=Service Ready, B=Not Service Ready): |  | Program Elements for Code B Items: 0804741F |  |  |  |  | Other Related Program Elements: 0604233F |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Line Item MDAP/MAIS Code: N/A |  |  |  |  |  |  |  |  |  |  |
| Exhibits Schedule |  |  |  |  | Prior Years | FY 2020 | FY 2021 | FY 2022 Base | FY 2022 OCO | FY 2022 Total |
| Exhibit Type | Title* | Subexhibits | $\begin{aligned} & \text { ID } \\ & \text { CD } \end{aligned}$ | MDAP/ MAIS Code | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) |
| P-40a*** | 6090 / T-38 Avionics (Reliability \& Maintainability) |  |  |  | - / 96.247 | - 10.769 | - 1 - | - 11.554 | - 1 | - 11.554 |
| P-40a*** | 6092 / T-38 A/B ADS-B Out (Reliability \& Maintainability) |  |  |  | - 18.269 | 1 | - 1 - | 1 | - 1 | - 1 - |
| P-40a*** | 6093 / T-38 Canopy (Safety) |  |  |  | - 10.000 | - 10.237 | - 11.573 | - /1.543 | - 1 | - 11.543 |
| P-40a*** | 6094 / T-38A/B ESUP II (Safety) |  |  |  | - 1 | 1 | - 15.000 | 1 | 1 | - 1 |
| P-40a*** | 99999A / LOW COST SAFETY MODIFICATIONS (Safety) |  |  |  | - 10.039 | - 10.005 | - 10.005 | - 10.005 | - 1 | - 10.005 |
| P-40a*** | 99999X / Low Cost Modifications (Service Life Extension) |  |  |  | - 10.043 | - 10.006 | - 10.006 | - 10.006 | - 1 | - 10.006 |
| P-3a | 6088 / Pacer Classic III (Service Life Extension) |  | A |  | - 1218.019 | - / 33.363 | - 131.537 | - $/ 40.379$ | - 10.000 | 140.379 |
| P-3a | 6091 / Talon Repair, Inspection and Maintenance (Reliability \& Maintainability) |  | A |  | - 11.829 | - 12.961 | - 12.685 | - 16.364 | - 10.000 | - 16.364 |
| P-40 | Total Gross/Weapon System Cost |  |  |  | - 1324.446 | - 137.341 | - $/ 40.806$ | - / 49.851 | - 1 - | - / 49.851 |

*** Although this is an Exhibit P-40a item, the actual exhibit is not included since all of the required information for this item is already being shown here.
*Title represents 1) the Number / Title for Items; 2) the Number / Title [DODIC] for Ammunition; and/or 3) the Number / Title (Modification Type) for Modifications.
Note: Totals in this Exhibit P-40 set may not be exact or sum exactly due to rounding.

## Justification:

Primary efforts in FY 2022 include: Pacer Classic III, T-38 Avionics, Talon Repair Inspection and Maintenance, and T-38 Canopy.

| Exhibit P-3a, Individual Modification: PB 2022 Air Force |  |  |  |  | Date: May 2021 |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 4 | P-1 Line Item Number / Title: T03800 / T-38 |  |  |  | Modification Number / Title: 6088 / Pacer Classic III |  |
| ID Code (A=Service Ready, B=Not Service Ready) : A | MDAP/MAIS Code: |  |  |  |  |  |
| Resource Summary | Prior Years | FY 2020 | FY 2021 | FY 2022 Base | FY 2022 OCO | FY 2022 Total |
| Procurement Quantity (Units in Each) | - | - | - | - | - | - |
| Gross/Weapon System Cost (\$ in Millions) | 218.019 | 33.363 | 31.537 | 40.379 | 0.000 | 40.379 |
| Less PY Advance Procurement (\$ in Millions) | - | - | - | - | - | - |
| Net Procurement (P-1) (\$ in Millions) | 218.019 | 33.363 | 31.537 | 40.379 | 0.000 | 40.379 |
| Plus CY Advance Procurement (\$ in Millions) | - | - | - | - | - | - |
| Total Obligation Authority (\$ in Millions) | 218.019 | 33.363 | 31.537 | 40.379 | 0.000 | 40.379 |
| (The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.) |  |  |  |  |  |  |
| Initial Spares (\$ in Millions) | - | - | - | - | - | - |
| Gross/Weapon System Unit Cost (\$ in Millions) | - | - | - | - | - | - |

## Description:

Pacer Classic III (PCIII) is a depot-level modification program which replaces known life-limited components and ensures structural sustainment of 180 T- 38 C aircraft which are at high risk of grounding. Timely modifications will ensure continued execution of the Air Education and Training Command (AETC) advanced undergraduate pilot training mission. PCIII will replace major structural components within the aircraft fuselage including major longerons, bulkhead/formers, internal skins and structural floors. These modifications have been categorized as Safety of Flight and determined by HQ Air Force Materiel Command (AFMC) to be required to correct material deficiencies to ensure safety of personnel, systems or equipment. If uncorrected, the hazard will ground the system or equipment, restrict flight or ground operations, or result in unacceptable risk to personnel. PCIII program requirements are documented in Air Force Form 1067: AETC 2016-037. PCIII installations will be performed by the 309 Maintenance Wing geographically separated unit at Randolph Air Force Base, Texas.

FY20 funding includes $\$ 11.227 \mathrm{M}$ in this exhibit under cost element "Data" which has been removed to other priorities.
This requirement for T-38 programs supports performance of a full financial audit as required by title 10 U.S.C. Chapter 9A, Sec 240-D "Audits: audit of financial statements of Department of Defense components by independent external auditors.ed

Milestone/Development Status
Production and deployment underway.

## UNCLASSIFIED



## UNCLASSIFIED



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| Exhibit P-3a, Individual Modification: PB 2022 Air Force |  |  |  |  | Date: May 2021 |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 4 | P-1 Line Item Number / Title: T03800 / T-38 |  |  |  | Modification Number / Title: 6091 / Talon Repair, Inspection and Maintenance |  |
| ID Code (A=Service Ready, B=Not Service Ready) : A | MDAP/MAIS Code: |  |  |  |  |  |
| Resource Summary | Prior Years | FY 2020 | FY 2021 | FY 2022 Base | FY 2022 OCO | FY 2022 Total |
| Procurement Quantity (Units in Each) | - | - | - | - | - | - |
| Gross/Weapon System Cost (\$ in Millions) | 1.829 | 2.961 | 2.685 | 6.364 | 0.000 | 6.364 |
| Less PY Advance Procurement (\$ in Millions) | - | - | - | - | - | - |
| Net Procurement (P-1) (\$ in Millions) | 1.829 | 2.961 | 2.685 | 6.364 | 0.000 | 6.364 |
| Plus CY Advance Procurement (\$ in Millions) | - | - | - | - | - | - |
| Total Obligation Authority (\$ in Millions) | 1.829 | 2.961 | 2.685 | 6.364 | 0.000 | 6.364 |
| (The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.) |  |  |  |  |  |  |
| Initial Spares (\$ in Millions) | - | - | - | - | - | - |
| Gross/Weapon System Unit Cost (\$ in Millions) | - | - | - | - | - | - |

## Description:



 bulkheads. Modifications will ensure fleet viability through users' intended retirement dates; ensuring airworthiness of fleet.
 by independent external auditors.

Milestone/Development Status
Approved configuration parts list been produced to support prototype and verification.

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| Exhibit P-3a, Individual Modification: PB 2022 Air Force |  |  |  |  | Date: May 2021 |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3010F/05/4 |  | P-1 Line Item Number / Title: T03800 / T-38 |  |  | Modification Number / Title: 6091 / Talon Repair, Inspection and Maintenance |  |
| ID Code (A=Service Ready, B=Not Service Ready) : A |  |  | MDAP/MAIS Code: |  |  |  |
| Models of Systems Affected: T-38 |  | Modification Type: Reliability \& Maintainability |  | Related RDT\&E PEs: |  |  |
|  | Prior Years | FY 2020 | FY 2021 | FY 2022 Base | FY 2022 OCO | FY 2022 Total |
| Financial Plan | Qty (Each) I Total Cost (\$ M) | Qty (Each) I Total Cost (\$ M) | Qty (Each) I Total Cost (\$ M) | Qty (Each) I Total Cost (\$ M) | Qty (Each) I Total Cost (\$ M) | Qty (Each) I Total Cost (\$ M) |
| Procurement |  |  |  |  |  |  |
| Modification Item 1 of 1: Install Kit |  |  |  |  |  |  |
| A Kits |  |  |  |  |  |  |
| Recurring |  |  |  |  |  |  |
| Install Kit:INSTALL KITS Group A (Active) | 211.820 | 12/2.935 | $17 / 2.468$ | 23/3.933 | 1 - | 23/3.933 |
| Subtotal: Recurring | - 11.820 | - $/ 2.935$ | - 12.468 | - 13.933 | - 1- | - 13.933 |
| Subtotal: Install Kit | - 11.820 | - $/ 2.935$ | - 12.468 | - 13.933 | - 1 - | - 13.933 |
| Subtotal: Procurement, All Modification Items | - 11.820 | - $/ 2.935$ | - 12.468 | - 13.933 | 1 - | - 13.933 |
| Support (All Modification Items) |  |  |  |  |  |  |
| SUPPORT-EQUIP | 1. | - 1 - | - 10.195 | - 10.664 | 1 - | - 10.664 |
| PMA - Other Gov't Costs | - 10.009 | - 10.026 | - 10.022 | - 10.100 | - 1 - | - 10.100 |
| PMA - Contractor Services | 1. | 1 | 1. | - 10.300 | 1 - | - 10.300 |
| Subtotal: Support | - 10.009 | - 10.026 | - 10.217 | - 11.064 | 1 - | - 11.064 |
| Installation |  |  |  |  |  |  |
| Modification Item 1 of 1: Install Kit | - 1 - | - 1- | - 1- | 1/1.367 | - 1 - | 1/1.367 |
| Subtotal: Installation | - 1- | - 1- | 1 - | 1/1.367 | - 1 - | 1/1.367 |
| Total |  |  |  |  |  |  |
| Total Cost (Procurement + Support + Installation) | 1.829 | 2.961 | 2.685 | 6.364 | 0.000 | 6.364 |

## UNCLASSIFIED



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Appropriation / Budget Activity / Budget Sub Activity:
3010F: Aircraft Procurement, Air Force / BA 05: Modification of Inservice Aircraft /
BSA 5: Other Aircraft

## P-1 Line Item Number / Title: <br> 11U200 / U-2 Mods

ID Code (A=Service Ready, B=Not Service Ready): B
Program Elements for Code B Items: 0305202F, 0305206F
Other Related Program Elements: 0305202F, 0604257F

| Resource Summary | Prior <br> Years | FY 2020 | FY 2021 | FY 2022 Base | $\begin{gathered} \text { FY } 2022 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \text { FY } 2022 \\ \text { Total } \end{gathered}$ | FY 2023 | FY 2024 | FY 2025 | FY 2026 | To Complete | Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Procurement Quantity (Units in Each) | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Cost (\$ in Millions) | 157.711 | 58.563 | 120.218 | 126.809 | 0.000 | 126.809 | - | - | - | - | - | - |
| Less PY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Net Procurement (P-1) (\$ in Millions) | 157.711 | 58.563 | 120.218 | 126.809 | 0.000 | 126.809 | - | - | - | - | - | - |
| Plus CY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Total Obligation Authority (\$ in Millions) | 157.711 | 58.563 | 120.218 | 126.809 | 0.000 | 126.809 | - | - | - | - | - | - |
| (The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.) |  |  |  |  |  |  |  |  |  |  |  |  |
| Initial Spares (\$ in Millions) | - | 28.097 | 43.058 | 7.692 | - | 7.692 | - | - | - | - | - | - |
| Flyaway Unit Cost (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Unit Cost (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |

## Description:

FY21 funding totals include $\$ 9.600 \mathrm{M}$ appropriated for Overseas Contingency Operations.


 party treaty verification/monitoring via the OLIVE HARVEST mission.


 Shortages (DMSMS), flight test, safety issues, and integration of capability development activities in support of the broader ISR portfolio.


 threats and capabilities through the remainder of scheduled U-2 operations.
 platform surrogate for risk reduction.
 mitigates a DMSMS issue with the current U-2 SAR sensor and processor and implements an open architecture approach.


| Exhibit P-3a, Individual Modification: PB 2022 Air Force |  |  |  |  | Date: May 2021 |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5 | P-1 Line Item Number / Title: 11U200 / U-2 Mods |  |  |  | Modification Number / Title: 4494 / U-2 Mod |  |
| ID Code (A=Service Ready, B=Not Service Ready) : B | MDAP/MAIS Code: |  |  |  |  |  |
| Resource Summary | Prior Years | FY 2020 | FY 2021 | FY 2022 Base | FY 2022 OCO | FY 2022 Total |
| Procurement Quantity (Units in Each) | - | - | - | - | - | - |
| Gross/Weapon System Cost (\$ in Millions) | 157.711 | 58.563 | 72.080 | 57.043 | 0.000 | 57.043 |
| Less PY Advance Procurement (\$ in Millions) | - | - | - | - | - | - |
| Net Procurement (P-1) (\$ in Millions) | 157.711 | 58.563 | 72.080 | 57.043 | 0.000 | 57.043 |
| Plus CY Advance Procurement (\$ in Millions) | - | - | - | - | - | - |
| Total Obligation Authority (\$ in Millions) | 157.711 | 58.563 | 72.080 | 57.043 | 0.000 | 57.043 |
| (The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.) |  |  |  |  |  |  |
| Initial Spares (\$ in Millions) | - | - | - | - | - | - |
| Gross/Weapon System Unit Cost (\$ in Millions) | - | - | - | - | - | - |

## Description:

The U-2 Program will continue to address reliability, maintainability, sustainability, and safety issues and support U-2 integration of payloads and capabilities. Aircraft and sensor sustainment or enhancements include activities such as, but not limited to the following current programs:

- Advanced Synthetic Aperture Radar System (ASARS) procurement, sustainment, and enhancements to support collection capability and capacity requirements to meet global ISR requirements.
- Multi-Spectral Sensor sustainment and enhancements to optics and focal planes in support of operational requirements.
- Electronic Warfare System (EWS) sustainment and enhancements to mitigate DMS and to defend against current and emerging threat systems.
- Data Link sustainment and enhancement: Development, integration and test of beyond line of sight (BLOS) and tactical data links (L-16, IFDL, MADL, etc.) in support of operational requirements and to mitigate DMSMS.
- Modification programs in support safety of flight, DMSMS concerns, support of operational capability and capacity requirements to include: airframe sustainment, Egress System Sustainment and Suitability Effort, helmet and Full Pressure Suit technical refresh, avionics, mission planning, navigation system and stellar tracker initiatives, advanced and agile systems/payloads, Open Mission Systems and Unmanned Aerospace Systems Command and Control Standard Initiative (OMS/UCI) standards compliance, payload sensors, and associated ground support equipment.
- Signals Intelligence (SIGINT) system sustainment, modernization, enhancement, test and integration to meet new/emerging operational requirements.
- Navigation software/infrastructure, and avionics refresh and upgrades to address DMSMS issues while increase capability in the integrated intelligence environment. May include procurement for non-GPS precision, navigation, and timing (PNT) hardware and software.

Milestone/Development Status
Various efforts will continue to develop technologies and capabilities supporting U-2 operations, and will be fielded onto the U-2 platforms, on a schedule dependent on system requirements.

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| Exhibit P-3a, Individual Modification: PB 2022 Air Force |  |  |  |  | Date: May 2021 |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5 |  | P-1 Line Item Number / Title: 11U200 / U-2 Mods |  |  | Modification Number / Title: 4494 / U-2 Mod |  |
| ID Code (A=Service Ready, B=Not Service Ready) : B |  |  | MDAP/MAIS Code: |  |  |  |
| Models of Systems Affected: U-2 | Modification Type: Other |  | Related RDT\&E PEs: 0305202F |  |  |  |
|  | Prior Years | FY 2020 | FY 2021 | FY 2022 Base | FY 2022 OCO | FY 2022 Total |
| Financial Plan | $\begin{gathered} \text { Qty (Each) I } \\ \text { Total Cost (\$ M) } \end{gathered}$ | $\begin{gathered} \text { Qty (Each) I } \\ \text { Total Cost (\$ M) } \end{gathered}$ | $\begin{gathered} \text { Qty (Each) I } \\ \text { Total Cost (\$ M) } \end{gathered}$ | $\begin{gathered} \text { Qty (Each) I } \\ \text { Total Cost (\$M) } \end{gathered}$ | $\begin{gathered} \text { Qty (Each) I } \\ \text { Total Cost (\$M) } \end{gathered}$ | $\begin{gathered} \text { Qty (Each) I } \\ \text { Total Cost (\$M) } \end{gathered}$ |
| RDT\&E PE\# |  |  |  |  |  |  |
| 0305202F | - / 193.792 | - 136.389 | - /18.660 | - /18.319 | - 1- | - /18.319 |
| Procurement |  |  |  |  |  |  |
| Modification Item 1 of 1: U-2 Update Block 20-1 |  |  |  |  |  |  |
| A Kits |  |  |  |  |  |  |
| Recurring |  |  |  |  |  |  |
| U-2 Update Block 20-1:1INSTALL KITS Group A (Active) | 21/110.674 | 9/40.412 | 22/51.224 | 12/37.997 | - 1- | 12/37.997 |
| Subtotal: Recurring | - /110.674 | - /40.412 | - /51.224 | - /37.997 | - 1 - | - /37.997 |
| Subtotal: U-2 Update Block 20-1 | - /110.674 | - /40.412 | - /51.224 | - /37.997 | - 1- | - 137.997 |
| Subtotal: Procurement, All Modification Items | - /110.674 | - /40.412 | - 151.224 | - /37.997 | - / - | - /37.997 |
| Installation |  |  |  |  |  |  |
| Modification Item 1 of 1: U-2 Update Block 20-1 | 21/47.037 | 9/18.151 | $22 / 20.856$ | 12/19.046 | - 1- | 12/19.046 |
| Subtotal: Installation | 21/47.037 | 9/18.151 | 22/20.856 | 12/19.046 | - 1 - | 12/19.046 |
| Total |  |  |  |  |  |  |
| Total Cost (Procurement + Support + Installation) | 157.711 | 58.563 | 72.080 | 57.043 | 0.000 | 57.043 |

## UNCLASSIFIED



Exhibit P-3a, Individual Modification: PB 2022 Air Force

## Appropriation / Budget Activity / Budget Sub Activity:

 3010F / 05 / 5
## P-1 Line Item Number / Title: 11 U200 / U-2 Mods

Date: May 2021

## Modification Number / Title:

4496 / ASARS-2B Procurement for U-2

ID Code (A=Serice Ready, $B=$ Not Service Ready) : B

| Resource Summary | Prior Years | FY 2020 | FY 2021 | FY 2022 Base | FY 2022 OCO | FY 2022 Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Procurement Quantity (Units in Each) | - | - | - | - | - | - |
| Gross/Weapon System Cost (\$ in Millions) | - | - | 48.138 | 69.766 | 0.000 | 69.766 |
| Less PY Advance Procurement (\$ in Millions) | - | - | - | - | - | - |
| Net Procurement (P-1) (\$ in Millions) | - | - | 48.138 | 69.766 | 0.000 | 69.766 |
| Plus CY Advance Procurement (\$ in Millions) | - | - | - | - | - | - |
| Total Obligation Authority (\$ in Millions) | - | - | 48.138 | 69.766 | 0.000 | 69.766 |
| (The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.) |  |  |  |  |  |  |
| Initial Spares (\$ in Millions) | - | 28.097 | 43.058 | 7.692 | - | 7.692 |
| Gross/Weapon System Unit Cost (\$ in Millions) | - | - | - | - | - | - |

## Description:





 previously referred to as ASARS-2C.

Validated requirements consists of the "Improved Synthetic Aperture Radar for the U-2" Operational Requirement Document (Apr 1996) and approved AF Form 1067s. It also aligns with the USECAF/VCSAF "Interim Guidance on High Altitude ISR Transition Plan", dated 19 Oct 2017. Current efforts are collaborative in funding and scheduling with PE 0305206F \& PE 0604257F. ASARS-2B (front-end) effort is NOT a new start, and has been previously planned for in PE 35202F.

Milestone/Development Status
The ASARS-2B program builds upon and operationalizes the ASARS-2B Technology Demonstration effort, funded under Advanced Technology and Sensors PE 0604257 F , which concludes in early FY19 with flight demonstrations. ASARS-2B expects contract award in FY19 to complete non-recurring engineering and build/integrate of two systems for flight test activities expected early FY22. A production contract will be awarded by late FY21 to produce ASARS-2B operational systems and initial spares with an Initial Operational Capability expected in FY23. Efforts will be made to align procurement of ASARS-2B with ASARS-2C ("back-end"/processor) to the max extent possible IAW CSAF/SECAF rapid innovation initiatives.

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| Exhibit P-3a, Individual Modification: PB 2022 Air Force |  |  |  |  | Date: May 2021 |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05/5 |  | P-1 Line Item Number / Title: 11U200 / U-2 Mods |  |  | Modification Number / Title: 4496 / ASARS-2B Procurement for U-2 |  |
| ID Code (A=Service Ready, B=Not Service Ready) : B |  |  | MDAP/MAIS Code: |  |  |  |
| Models of Systems Affected: U-2 | Modification Type: Other |  |  | Related RDT\&E PEs: 0305202F, 0604257F |  |  |
|  | Prior Years | FY 2020 | FY 2021 | FY 2022 Base | FY 2022 OCO | FY 2022 Total |
| Financial Plan | $\begin{gathered} \text { Qty (Each) I } \\ \text { Total Cost (\$ M) } \end{gathered}$ | $\begin{gathered} \text { Qty (Each) I } \\ \text { Total Cost }(\$ \mathrm{M}) \\ \hline \end{gathered}$ | $\begin{gathered} \text { Qty (Each) I } \\ \text { Total Cost }(\$ \text { M) } \end{gathered}$ | $\begin{gathered} \hline \text { Qty (Each) I } \\ \text { Total Cost }(\$ M) \\ \hline \end{gathered}$ | $\begin{gathered} \text { Qty (Each) I } \\ \text { Total Cost }(\$ M) \\ \hline \end{gathered}$ | $\begin{gathered} \hline \text { Qty (Each) I } \\ \text { Total Cost }(\$ M) \\ \hline \end{gathered}$ |
| Procurement |  |  |  |  |  |  |
| Modification Item 1 of 1: ASARS-2B |  |  |  |  |  |  |
| A Kits |  |  |  |  |  |  |
| Recurring |  |  |  |  |  |  |
| ASARS-2B:INSTALL KITS Group A (Active) | - 1 - | - 1 - | 1/48.138 | 2169.766 | - 1- | 2169.766 |
| Subtotal: Recurring | - 1 | - 1- | - /48.138 | - 169.766 | - 1- | - 169.766 |
| Subtotal: ASARS-2B | - 1 - | - 1 - | - /48.138 | - 169.766 | - 1 - | - 169.766 |
| Subtotal: Procurement, All Modification Items | - 1. | - 1- | - /48.138 | - 169.766 | -1. | - 169.766 |
| Installation |  |  |  |  |  |  |
| Subtotal: Installation | - 1. | - 1 - | - 1- | - / - | - 1- | - 1- |
| Total |  |  |  |  |  |  |
| Total Cost (Procurement + Support + Installation) | - | - | 48.138 | 69.766 | 0.000 | 69.766 |

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| Exhibit P-40, Budget Line Item Justification: PB 2022 Air Force |  |  |  |  |  |  |  |  | Date: May 2021 |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: <br> 3010F: Aircraft Procurement, Air Force / BA 05: Modification of Inservice Aircraft / <br> BSA 5: Other Aircraft |  |  |  |  |  | P-1 Line Item Number / Title: C01000 / KC-10A (ATCA) |  |  |  |  |  |  |
| ID Code (A=Service Ready, B=Not Service Ready): B |  |  | Program Elements for Code B Items: 0401219F, 0401897F |  |  |  |  | Other Related Program Elements: 0401219F |  |  |  |  |
| Line Item MDAP/MAIS Code: N/A |  |  |  |  |  |  |  |  |  |  |  |  |
| Resource Summary | Prior <br> Years | FY 2020 | FY 2021 | $\begin{gathered} \text { FY } 2022 \\ \text { Base } \end{gathered}$ | $\begin{gathered} \text { FY } 2022 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \text { FY } 2022 \\ \text { Total } \end{gathered}$ | FY 2023 | FY 2024 | FY 2025 | FY 2026 | To Complete | Total |
| Procurement Quantity (Units in Each) | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Cost (\$ in Millions) | 62.081 | 2.108 | 0.117 | 1.902 | - | 1.902 | - | - | - | - | - | - |
| Less PY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Net Procurement (P-1) (\$ in Millions) | 62.081 | 2.108 | 0.117 | 1.902 | - | 1.902 | - | - | - | - | - | - |
| Plus CY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Total Obligation Authority (\$ in Millions) | 62.081 | 2.108 | 0.117 | 1.902 | - | 1.902 | - | - | - | - | - | - |
| (The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.) |  |  |  |  |  |  |  |  |  |  |  |  |
| Initial Spares (\$ in Millions) | - | - | 0.600 | - | - | - | - | - | - | - | - | - |
| Flyaway Unit Cost (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Unit Cost (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |

## Description:


 accessibility, and incorporate aging aircraft and FAA certification requirements.

Funding for this exhibit is contained in PE 0401219F and PE 0401897F

## Justification:

FY2022 funding for Service Bulletins, Airworthiness Directives, and All Operator Letters issued to correct deficiencies.

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Exhibit P-40, Budget Line Item Justification: PB 2022 Air Force
Appropriation / Budget Activity / Budget Sub Activity:
3010F: Aircraft Procurement, Air Force / BA 05: Modification of Inservice Aircraft /
BSA 5: Other Aircraft

## P-1 Line Item Number / Title: <br> C01200 / C-12

| ID Code (A=Service Ready, B=Not Service Ready) |  |  | Program Ele | ents for Cod | B Items: | 314F |  | Other Relat | Program | ments: 040 | 14F |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Line Item MDAP/MAIS Code: N/A |  |  |  |  |  |  |  |  |  |  |  |  |
| Resource Summary | Prior <br> Years | FY 2020 | FY 2021 | FY 2022 Base | $\begin{gathered} \text { FY } 2022 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \text { FY } 2022 \\ \text { Total } \end{gathered}$ | FY 2023 | FY 2024 | FY 2025 | FY 2026 | To Complete | Total |
| Procurement Quantity (Units in Each) | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Cost (\$ in Millions) | 17.657 | 3.021 | 0.000 | 0.000 | - | 0.000 | - | - | - | - | - | - |
| Less PY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Net Procurement (P-1) (\$ in Millions) | 17.657 | 3.021 | 0.000 | 0.000 | - | 0.000 | - | - | - | - | - | - |
| Plus CY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Total Obligation Authority (\$ in Millions) | 17.657 | 3.021 | 0.000 | 0.000 | - | 0.000 | - | - | - | - | - | - |
| (The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.) |  |  |  |  |  |  |  |  |  |  |  |  |
| Initial Spares (\$ in Millions) | - | 倍 | - | - | - | - | - | - | - | - | - | - |
| Flyaway Unit Cost (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Unit Cost (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |

## Description:

This line item funds low-cost modifications and service bulletins for twenty-nine (29) C-12 C/D/F/J aircraft, commercial equivalent to the Beech Craft Super King Air. The C-12 is a twin-turboprop, support-airlift aircraft used to transport cargo and passengers over medium distances. The design service life is 30,000 hours with 16,300 remaining on the $C$ ( 16 ), 19,600 hours remaining on the $D(6), 7,600$ on the $F(3)$, 12,300 on the $J(4)$.

Service bulletins and low cost modifications are necessary for continuing Federal Aviation Administration certification while improving flight safety, reliability, and maintainability. Support funding for emerging modification requirements to support PMA, A\&AS, system integration lab, trainers, equipment and other government costs.

Funding may be used to address Diminishing Manufacturing Sources Material Shortages (DMSMS) issues.
This requirement supports performance of a full financial audit as required by title 10 U.S.C. Chapter 9A, Sec 240-D
Funding for this exhibit contained in PE 0401314F.

## Justification:

No funding requested in FY 2022.

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Exhibit P-40, Budget Line Item Justification: PB 2022 Air Force

| Appropriation / Budget Activity / Budget Sub Activity: |
| :--- |
| 3010F: Aircraft Procurement, Air Force / BA 05: Modification of Inservice Aircraft / |
| BSA 5: Other Aircraft |

## P-1 Line Item Number / Title: <br> C02500 / VC-25A Mod

| ID Code (A=Service Ready, B=Not Service Ready) |  |  | Program Ele | nts for Cod | B Items: | 1314F |  | Other Rela | rogram | ents: 04 | 14F |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Line Item MDAP/MAIS Code: N/A |  |  |  |  |  |  |  |  |  |  |  |  |
| Resource Summary | Prior Years | FY 2020 | FY 2021 | $\begin{gathered} \text { FY } 2022 \\ \text { Base } \end{gathered}$ | $\begin{gathered} \text { FY } 2022 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \text { FY } 2022 \\ \text { Total } \end{gathered}$ | FY 2023 | FY 2024 | FY 2025 | FY 2026 | To Complete | Total |
| Procurement Quantity (Units in Each) | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Cost (\$ in Millions) | 268.600 | 48.624 | 1.983 | 0.096 | - | 0.096 | - | - | - | - | - | - |
| Less PY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Net Procurement (P-1) (\$ in Millions) | 268.600 | 48.624 | 1.983 | 0.096 | - | 0.096 | - | - | - | - | - | - |
| Plus CY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Total Obligation Authority (\$ in Millions) | 268.600 | 48.624 | 1.983 | 0.096 | - | 0.096 | - | - | - | - | - | - |
| (The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.) |  |  |  |  |  |  |  |  |  |  |  |  |
| Initial Spares (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Flyaway Unit Cost (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Unit Cost (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |

## Description:


 fielded in the 2025 timeframe.
 weather radar, digital/voice data systems, and network capabilities.
 SecAF determined the following capabilities modifications are in the national security interest of the United States:

 Teleconference (HDVTC).


## Justification:

FY 2022 funding is required for low cost mods and service bulletins.

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Exhibit P-40, Budget Line Item Justification: PB 2022 Air Force
Date: May 2021
Appropriation / Budget Activity / Budget Sub Activity:
3010F: Aircraft Procurement, Air Force / BA 05: Modification of Inservice Aircraft /
BSA 5: Other Aircraft

## P-1 Line Item Number / Title: <br> C04000 / C-40

| ID Code (A=Service Ready, B=Not Service Ready): |  |  | Program Ele | nts for Cod | B Items: | 1314F |  | Other Rela | rogram | ents: 04 | 14F |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Line Item MDAP/MAIS Code: N/A |  |  |  |  |  |  |  |  |  |  |  |  |
| Resource Summary | Prior Years | FY 2020 | FY 2021 | $\begin{gathered} \text { FY } 2022 \\ \text { Base } \end{gathered}$ | $\begin{gathered} \text { FY } 2022 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \text { FY } 2022 \\ \text { Total } \end{gathered}$ | FY 2023 | FY 2024 | FY 2025 | FY 2026 | To Complete | Total |
| Procurement Quantity (Units in Each) | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Cost (\$ in Millions) | 127.779 | 0.256 | 7.252 | 0.262 | - | 0.262 | - | - | - | - | - | - |
| Less PY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Net Procurement (P-1) (\$ in Millions) | 127.779 | 0.256 | 7.252 | 0.262 | - | 0.262 | - | - | - | - | - | - |
| Plus CY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Total Obligation Authority (\$ in Millions) | 127.779 | 0.256 | 7.252 | 0.262 | - | 0.262 | - | - | - | - | - | - |
| (The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.) |  |  |  |  |  |  |  |  |  |  |  |  |
| Initial Spares (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Flyaway Unit Cost (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Unit Cost (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |

## Description:



 modernization efforts.

Service bulletins and low cost modifications are necessary for continuing Federal Aviation Administration (FAA) certification while improving flight safety, reliability, and maintainability.

Funding may be used to address Diminishing Manufacturing Sources and Material Shortages (DMSMS) issues.
This requirement supports performance of a full financial audit as required by title 10 U.S.C. Chapter 9A, Sec 240-D
 defense missions, domestic emergency responses, and providing military support to civil authorities.

Funding for this exhibit contained in PEs 0401314F and 0504324F

| Secondary Distribution |  | FY 2020 | FY 2021 | FY 2022 <br> Base | $\begin{aligned} & \text { FY } 2022 \\ & \text { OCO } \end{aligned}$ | $\begin{gathered} \text { FY } 2022 \\ \text { Total } \end{gathered}$ | FY 2023 | FY 2024 | FY 2025 | FY 2026 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| AF | Quantity | - | - | - | - | - | - | - | - | - |
|  | Total Obligation Authority | 0.256 | 7.252 | 0.262 | - | 0.262 | - | - | - | - |
| Total: | Quantity | - | - | - | - | - | - | - | - | - |

## UNCLASSIFIED

| Exhibit P-40, Budget Line Item Justification: PB 2022 Air Force |  |  |  |  |  |  |  | Date: May 2021 |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: <br> 3010F: Aircraft Procurement, Air Force / BA 05: Modification of Inservice Aircraft / <br> BSA 5: Other Aircraft |  |  |  |  | P-1 Line Item Number / Title: C04000 / C-40 |  |  |  |  |  |
| ID Code (A=Service Ready | Not Service Ready): B | Program Elements for Code B Items: 0401314F |  |  |  | Other Related Program Elements: 0401314F |  |  |  |  |
| Line Item MDAP/MAIS Code: N/A |  |  |  |  |  |  |  |  |  |  |
| Secondary Distribution |  | FY 2020 | FY 2021 | $\begin{gathered} \text { FY } 2022 \\ \text { Base } \end{gathered}$ | $\begin{aligned} & \text { FY } 2022 \\ & \text { OCO } \end{aligned}$ | $\begin{aligned} & \text { FY } 2022 \\ & \text { Total } \end{aligned}$ | FY 2023 | FY 2024 | FY 2025 | FY 2026 |
| Secondary Distribution | Total Obligation Authority | 0.256 | 7.252 | 0.262 | - | 0.262 | - | - | - | - |

[^1]Exhibit P-40, Budget Line Item Justification: PB 2022 Air Force
Date: May 2021

## P-1 Line Item Number / Title:

C13000 / C-130

3010F: Aircraft Procurement, Air Force / BA 05: Modification of Inservice Aircraft / BSA 5: Other Aircraft

| ID Code (A=Service Ready, B=Not Service Ready): |  |  | Program Elements for Code B Items: 0207224F, 0401115F, 0401897F, 0404011F |  |  |  |  | Other Related Program Elements: 0207224F, 0401115F |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Line Item MDAP/MAIS Code: N/A |  |  |  |  |  |  |  |  |  |  |  |  |
| Resource Summary | Prior <br> Years | FY 2020 | FY 2021 | $\begin{gathered} \text { FY } 2022 \\ \text { Base } \end{gathered}$ | $\begin{gathered} \text { FY } 2022 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \text { FY } 2022 \\ \text { Total } \end{gathered}$ | FY 2023 | FY 2024 | FY 2025 | FY 2026 | To Complete | Total |
| Procurement Quantity (Units in Each) | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Cost (\$ in Millions) | 1,657.100 | 186.066 | 265.580 | 29.071 | - | 29.071 | - | - | - | - | - | - |
| Less PY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Net Procurement (P-1) (\$ in Millions) | 1,657.100 | 186.066 | 265.580 | 29.071 | - | 29.071 | - | - | - | - | - | - |
| Plus CY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Total Obligation Authority (\$ in Millions) | 1,657.100 | 186.066 | 265.580 | 29.071 | - | 29.071 | - | - | - | - | - | - |
| (The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.) |  |  |  |  |  |  |  |  |  |  |  |  |
| Initial Spares (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Flyaway Unit Cost (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Unit Cost (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |

## Description:

This line item funds modifications to the $\mathrm{C}-130 \mathrm{H}$ and Special Mission C - 130 aircraft. The four engine $\mathrm{C}-130 \mathrm{H}$ provides theater airifift and carries either 92 troops, 64 paratroopers, 74 litter patients, or 6 standard 463-L pallets.


 defense missions, domestic emergency responses, and providing military support to civil authorities.

Funding may be used to address Diminishing Manufacturing Sources (DMS) issues.
Funding for this exhibit is contained in PEs 0401115F, 0401897F, and 0404011F.

| Secondary Distribution |  | FY 2020 | FY 2021 | $\begin{gathered} \text { FY } 2022 \\ \text { Base } \end{gathered}$ | $\begin{gathered} \text { FY } 2022 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \text { FY } 2022 \\ \text { Total } \end{gathered}$ | FY 2023 | FY 2024 | FY 2025 | FY 2026 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| AF | Quantity | - | - | - | - | - | - | - | - | - |
|  | Total Obligation Authority | 66.594 | 115.523 | 13.509 | - | 13.509 | - | - | - | - |
| AFNG | Quantity | - | - | - | - | - | - | - | - | - |
|  | Total Obligation Authority | 108.480 | 150.057 | 11.671 | - | 11.671 | - | - | - | - |
| AFR | Quantity | - | - | - | - | - | - | - | - | - |
|  | Total Obligation Authority | 10.992 | - | 3.891 | - | 3.891 | - | - | - | - |
| Total: | Quantity | - | - | - | - | - | - | - | - | - |

UNCLASSIFIED

| Exhibit P-40, Budget Line Item Justification: PB 2022 Air Force |  |  |  |  |  |  |  | Date: May 2021 |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: <br> 3010F: Aircraft Procurement, Air Force / BA 05: Modification of Inservice Aircraft / <br> BSA 5: Other Aircraft |  |  |  |  | P-1 Line Item Number / Title: C13000 / C-130 |  |  |  |  |  |
| ID Code (A=Service Ready, B=Not Service Ready): |  |  | Program Elements for Code B Items: 0207224F, 0401115F, 0401897F, 0404011F |  |  |  | Other Related Program Elements: 0207224F, 0401115F |  |  |  |
| Line Item MDAP/MAIS Code: N/A |  |  |  |  |  |  |  |  |  |  |
| Second | Distribution | FY 2020 | FY 2021 | $\begin{gathered} \hline \text { FY } 2022 \\ \text { Base } \end{gathered}$ | $\begin{aligned} & \text { FY } 2022 \\ & \text { OCO } \end{aligned}$ | $\begin{gathered} \text { FY } 2022 \\ \text { Total } \end{gathered}$ | FY 2023 | FY 2024 | FY 2025 | FY 2026 |
| Secondary Distribution | Total Obligation Authority | 186.066 | 265.580 | 29.071 |  | 29.071 |  |  | - |  |

Exhibit P-40, Budget Line Item Justification: PB 2022 Air Force
Date: May 2021

## P-1 Line Item Number / Title:

C13000 / C-130

## Appropriation / Budget Activity / Budget Sub Activity:

BSA 5: Other Aircraft

| ID Code (A=Service Ready, B=Not Service Ready): | Program Elements for Code B Items: 0207224F, 0401115F, 0401897F, 0404011F | Other Related Program Elements: 0207224F, 0401115F |
| :---: | :---: | :---: |

Line Item MDAP/MAIS Code: N/A

| Exhibits Schedule |  |  |  |  | Prior Years | FY 2020 | FY 2021 | FY 2022 Base | FY 2022 OCO | FY 2022 Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Exhibit Type | Title* | Subexhibits | $\begin{aligned} & \text { ID } \\ & \text { CD } \end{aligned}$ | MDAP/ MAIS Code | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) |
| P-40a*** | 3773 / C-130 8-Bladed Propeller Upgrade (Capability Improvement) |  |  |  | - / 196.004 | - 155.000 | / 180.000 | - 1 - | - 1- | - 1 |
| P-40a*** | 8221 / C-130 ALR-69A Radar Warning Receiver (RWR) (Capability Improvement) |  |  |  | 136.000 | 1 | - 1 - | 1 | - 1 - | - 1 |
| P-40a*** | 8578 I C-130 SYSTEMS/STRUCTURE (PHASE II MODERNIZATION) (Service Life Extension) |  |  |  | - 1673.495 | - / 14.512 | - 1 | - 10.000 | - 1 - | - 10.000 |
| P-40a*** | 9139 / MOD V IFF (Capability Improvement) |  |  |  | 142.100 | - 1 - | - 1 - | - 1 - | -1 | 1 |
| P-40a*** | 9141 / C-130 CRASHWORTHY LOADMASTER SEAT (No text provided.) |  |  |  | - /1.853 | - 1 - | -1 | - 1. | - 1 - | -1 |
| P-40a*** | 9149 / C-130 Aux Hyd Pump (Capability Improvement) |  |  |  | - / 16.599 | - 1 - | - 1 - | - 1 - | - 1 | - |
| P-40a** | 92302 / C-130H Avionics Modernization Program (AMP) Increment 1 (Capability Improvement) |  |  |  | - / 83.943 | - 17.185 | - 1 | - 10.000 | -1 | - 10.000 |
| P-40a*** | 92308 / T-56 3.5 Engine Mod (Capability Improvement) |  |  |  | - 1261.000 | - 179.000 | - 179.000 | - 1 - | 1 | - 1 - |
| P-40a*** | 92309 / Onboard Fire Incident Response Equipment (Capability Improvement) |  |  |  | - / 144.429 | - $/ 5.538$ | - 1 - | - 10.100 | 1 | - 10.100 |
| P-40a*** | 92310 / HC-130P/N Variable Speed Drogue (VSD) (Capability Improvement) |  |  |  | - 11.410 | 1 | 1 | - 1 | - 1 | - 1 |
| P-40a** | 92311 / Electronic Propeller Control System (EPCS) (Capability Improvement) |  |  |  | - / 141.770 | 1 - | - 1 | - 1 | - 1 - | - 1 |
| P-40a** | 92312 / In-Flight Propeller Balancing System (IPBS) (Reliability \& Maintainability) |  |  |  | - 11.500 | - 1 - | 1 | - 1 - | -1 | -1 |
| P-40a*** | 92315 / C-130H Simulator (Other) |  |  |  | - 125.000 | - /15.675 | 1 | - 17.128 | - 1 | - 17.128 |
| P-40a*** | 92316 / AFSOC C-130 Mods (Capability Improvement) |  |  |  | - / 14.705 | - 17.937 | 1 | 1 | 1 | - |
| P-40a*** | 92322 / MAFFS (Capability Improvement) |  |  |  | 1 | - 1 - | - 14.600 | - 1 - | 1 | - 1 - |
| P-40a*** | 99999A / LOW COST SAFETY MODIFICATIONS (Safety) |  |  |  | - 13.034 | - 1 - | - 1 - | - 1 - | - 1 - | - 1 - |
| P-40a*** | 99999C / HC-130 Low Cost Mods (Reliability \& Maintainability) |  |  |  | - / 1.907 | - 1 - | - 1 - | - 1 - | 1 | 1 |
| P-40a*** | 99999M / MISC SIMULATOR UPDATES (Capability Improvement) |  |  |  | - 10.703 | - 1 - | - $/$ - | - 1 - | - 1 - | - 1 |
| P-40a*** | 99999X / Low Cost Modifications (Capability Improvement) |  |  |  | / 11.648 | - / 1.219 | - $/ 1.980$ | - 11.839 | - 1 - | - 11.839 |
| P-3a | 8518 / C-130H Avionics Modernization Program (AMP) Increment 2 (Capability Improvement) |  | B |  | - 10.000 | - 10.000 | - 10.000 | - / 20.004 | - 10.000 | 120.004 |
| P-40 | Total Gross/Weapon System Cost |  |  |  | - 11,657.100 | - /186.066 | - 1265.580 | - 129.071 | - 1 - | - 129.071 |

${ }^{* * *}$ Although this is an Exhibit P-40a item, the actual exhibit is not included since all of the required information for this item is already being shown here.
*Title represents 1) the Number / Title for Items; 2) the Number / Title [DODIC] for Ammunition; and/or 3) the Number / Title (Modification Type) for Modifications
Note: Totals in this Exhibit P-40 set may not be exact or sum exactly due to rounding

## Justification

This program, P-3A Mod 8518, C-130H Avionics Modernization Program (AMP) Increment 2, is a new start.

| Exhibit P-40, Budget Line Item Justification: PB 2022 Air Force |  |  |  | Date: May 2021 |
| :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: <br> 3010F: Aircraft Procurement, Air Force / BA 05: Modification of Inservice Aircraft / <br> BSA 5: Other Aircraft |  | P-1 Line Item Number / Title:C13000 / C-130 |  |  |
|  | Program Elements for Code B Items: 0207224F, 0401115F, 0401897F, 0404011F |  |  | Program Elements: 0207224F, 0401115F |
| Line Item MDAP/MAIS Code: N/A |  |  |  |  |
| This program, P-3A Mod 92309, Onboard Fire Incident Response Equipment, is a new start. <br> FY 2022 primary efforts include: C-130 AMP Inc 2, C-130H Simulator, Low Cost Modifications, and Onboard Fire Incident Response Equipment. |  |  |  |  |

Exhibit P-3a, Individual Modification: PB 2022 Air Force

## Appropriation / Budget Activity / Budget Sub Activity:

 3010F/05/5
## P-1 Line Item Number / Title: C13000 / C-130

Date: May 2021

## Modification Number / Title:

8518 / C-130H Avionics Modernization Program (AMP) Increment 2

| ID Code $(A=$ Service Ready, $B=$ Not Serice Ready $): B$ | MDAP/MAIS Code: |
| :--- | :--- |


| Resource Summary | Prior Years | FY 2020 | FY 2021 | FY 2022 Base | FY 2022 OCO | FY 2022 Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Procurement Quantity (Units in Each) | - | - | - | - | - | - |
| Gross/Weapon System Cost (\$ in Millions) | 0.000 | 0.000 | 0.000 | 20.004 | 0.000 | 20.004 |
| Less PY Advance Procurement (\$ in Millions) | - | - | - | - | - | - |
| Net Procurement (P-1) (\$ in Millions) | 0.000 | 0.000 | 0.000 | 20.004 | 0.000 | 20.004 |
| Plus CY Advance Procurement (\$ in Millions) | - | - | - | - | - | - |
| Total Obligation Authority (\$ in Millions) | 0.000 | 0.000 | 0.000 | 20.004 | 0.000 | 20.004 |
| (The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.) |  |  |  |  |  |  |
| Initial Spares (\$ in Millions) | - | - | - | - | - | - |
| Gross/Weapon System Unit Cost (\$ in Millions) | - | - | - | - | - | - |

## Description:

This program, P-3A Mod 8518, C-130H Avionics Modernization Program (AMP) Increment 2, is a new start.




 approved on 8 Aug 14.
 2 program for kit buys and installations to capitalize on aircraft downtime efficiencies.


 Assigned Multiple Access (DAMA) and Integrated Waveform (IW) communications systems.
 (LOS) anti-jam capability that will supplement and replace the currently installed HAVE QUICK II UHF LOS anti-jam capability.

This funding includes Rapid Global Mobility (RGM) platform related activities including, but not limited to, fielding actions such as kit buys, installations, and support equipment.

 separately funded by the NSF.
 consists of up to 4 prototype aircraft that represent variations in mission design, with the remaining aircraft modified in the production phase.

UNCLASSIFIED


| Exhibit P-3a, Individual Modification: PB 2022 Air Force |  |  |  |  | Date: May 2021 |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5 |  | P-1 Line Item Number / Title: C13000 / C-130 |  |  | Modification Number / Title: 8518 / C-130H Avionics Modernization Program (AMP) Increment 2 |  |
| ID Code (A=Service Ready, B=Not Service Ready) : B |  |  | MDAP/MAIS Code: |  |  |  |
| Models of Systems Affected: $\mathrm{C}-130 \mathrm{H}$ | Modification Type: Capability Improvement |  |  | Related RDT\&E PEs: 0401115F |  |  |
|  | Prior Years | FY 2020 | FY 2021 | FY 2022 Base | FY 2022 OCO | FY 2022 Total |
|  | Qty (Each) I Total Cost (\$ M) | Qty (Each) I Total Cost (\$ M) | Qty (Each) I Total Cost (\$ M) | Qty (Each) I Total Cost (\$ M) | Qty (Each) I Total Cost (\$ M) | Qty (Each) I Total Cost (\$ M) |
| RDT\&E PE \# |  |  |  |  |  |  |
| 0401115F | 4/68.251 | - 173.732 | - 141.896 | - 19.359 | - 1- | - 19.359 |
| Procurement |  |  |  |  |  |  |
| Modification Item 1 of 2: C-130 AMP Incr 2 - B |  |  |  |  |  |  |
| B Kits |  |  |  |  |  |  |
| Recurring |  |  |  |  |  |  |
| C-130 AMP Incr 2 - B:EQUIPMENT Group B (Guard) | - 1- | - 1- | - 1- | 3/6.881 | - 1- | 3/6.881 |
| C-130 AMP Incr 2 - B:EQUIPMENT Group B (Reserve) | - 1- | 1 - | 1 | 1/2.294 | - 1- | 1/2.294 |
| Subtotal: Recurring | - 1 - | - 1 - | 1 | - 19.175 | - 1 - | - 19.175 |
| Subtotal: C-130 AMP Incr 2 - B | - / - | - / - | - / - | - /9.175 | - 1 - | - 19.175 |
| Modification Item 2 of 2: COMMON: C-130H AMP Incr 2-A |  |  |  |  |  |  |
| A Kits |  |  |  |  |  |  |
| Recurring |  |  |  |  |  |  |
| COMMON: C-130H AMP Incr 2 - A:INSTALL KITS Group A (Guard) | - 1- | - 1- | - 1 | $3 / 1.214$ | - 1- | $3 / 1.214$ |
| COMMON: C-130H AMP Incr 2 - A:INSTALL KITS Group A (Reserve) | - 1 - | - 1 - | - 1 - | 1/0.405 | - 1- | 1/0.405 |
| Subtotal: Recurring | - 1- | - 1 - | - 1 | - /1.619 | - 1 | - $/ 1.619$ |
| Subtotal: COMMON: C-130H AMP Incr 2 - A | - 1 - | - 1 - | - 1 - | - /1.619 | - / - | - /1.619 |
| Subtotal: Procurement, All Modification Items | - / - | - / - | - / - | - /10.794 | - 1 - | - /10.794 |
| Support (All Modification Items) |  |  |  |  |  |  |
| GROUP B: TOTAL NONRECURRING | - 1- | - 1- | - 1- | - 10.000 | - 1- | - 10.000 |
| OTHER GOVT | - 1- | - 1- | - 1- | - 10.001 | - 1- | - 10.001 |
| Change Orders | - 1 - | - 1- | - 1- | - 10.149 | - 1- | - 10.149 |
| SIM/TRAINER | - 1 - | - 1- | - 1- | - 10.001 | - 1- | - 10.001 |
| Data | - 1- | - 1- | - 1- | - 10.259 | - 1- | - 10.259 |
| SUPPORT-EQUIP | - 1- | - 1 - | - 1 - | - 11.000 | - 1- | - 11.000 |
| ICS-Labor | - 1- | - 1- | - 1- | - 10.000 | - 1- | - 10.000 |
| ICS-Material | - 1- | - 1- | - 1- | - 10.001 | - 1- | - 10.001 |
| PMA - Contractor Services | - 1- | - 1- | - 1 - | - 12.930 | - 1 - | - 12.930 |
| PMA - Other Gov't Costs | - 1- | - 1 - | - 1 - | - 10.100 | - 1 - | - 10.100 |
| Type 1 Training | - 1- | - 1- | - 1- | - 10.001 | - 1- | - 10.001 |

UNCLASSIFIED

| Exhibit P-3a, Individual Modification: PB 2022 Air Force |  |  |  |  | Date: May 2021 |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5 |  | P-1 Line Item Number / Title:C13000 / C-130 |  |  | Modification Number / Title: 8518 / C-130H Avionics Modernization Program (AMP) Increment 2 |  |
| ID Code (A=Service Ready, B=Not Service Ready) : B |  |  | MDAP/MAIS Code: |  |  |  |
| Models of Systems Affected: C-130H | Modification Type: Capability Improvement |  |  | Related RDT\&E PEs: 0401115F |  |  |
|  | Prior Years | FY 2020 | FY 2021 | FY 2022 Base | FY 2022 OCO | FY 2022 Total |
| Financial Plan | $\begin{gathered} \text { Qty (Each) I } \\ \text { Total Cost (\$ M) } \end{gathered}$ | Qty (Each) I Total Cost (\$ M) | Qty (Each) 1 Total Cost (\$ M) | Qty (Each) I Total Cost (\$ M) | Qty (Each) I Total Cost (\$ M) | Qty (Each) I Total Cost (\$ M) |
| Subtotal: Support | - / - | - 1. | - 1 - | - 14.442 | - 1 - | $-14.442$ |
| Installation |  |  |  |  |  |  |
| Modification Item 1 of 2: C-130 AMP Incr 2-B | - 1 - | - 1- | - 1 - | 4/4.768 | - 1 - | $4 / 4.768$ |
| Subtotal: Installation | - 1 | -1- | - 1- | 4/4.768 | - 1 - | 4/4.768 |
| Total |  |  |  |  |  |  |
| Total Cost (Procurement + Support + Installation) | 0.000 | 0.000 | 0.000 | 20.004 | 0.000 | 20.004 |

## UNCLASSIFIED



UNCLASSIFIED

Appropriation / Budget Activity / Budget Sub Activity:
3010F: Aircraft Procurement, Air Force / BA 05: Modification of Inservice Aircraft /
BSA 5: Other Aircraft

## P-1 Line Item Number / Title: <br> C1300J / C-130J Mods

 BSA 5: Other Aircraft| ID Code (A=Service Ready, B=Not Service Ready): |  |  | Program Elements for Code B Items: 0401115F, 0401132F, 0401897F |  |  |  |  | Other Related Program Elements: 0401115F, 0401132F, 0401897F |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Line Item MDAP/MAIS Code: N/A |  |  |  |  |  |  |  |  |  |  |  |  |
| Resource Summary | Prior <br> Years | FY 2020 | FY 2021 | $\text { FY } 2022$ Base | $\begin{gathered} \text { FY } 2022 \\ \text { OCO } \end{gathered}$ | $\text { FY } 2022$ <br> Total | FY 2023 | FY 2024 | FY 2025 | FY 2026 | To Complete | Total |
| Procurement Quantity (Units in Each) | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Cost (\$ in Millions) | 525.272 | 122.302 | 136.632 | 110.784 | - | 110.784 | - | - | - | - | - | - |
| Less PY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Net Procurement (P-1) (\$ in Millions) | 525.272 | 122.302 | 136.632 | 110.784 | - | 110.784 | - | - | - | - | - | - |
| Plus CY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Total Obligation Authority (\$ in Millions) | 525.272 | 122.302 | 136.632 | 110.784 | - | 110.784 | - | - | - | - | - | - |
| (The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.) |  |  |  |  |  |  |  |  |  |  |  |  |
| Initial Spares (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Flyaway Unit Cost (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Unit Cost (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |

## Description:

The C-130J is a medium-size transport aircraft capable of performing a variety of combat delivery (tactical airlift) operations across a broad range of mission environments. The C-130J aircraft, with its extended (by 15 ft ) fuselage, provides additional cargo carrying capacity for the USAF combat delivery mission compared with legacy $\mathrm{C}-130 \mathrm{E} / \mathrm{Hs}$ and the $\mathrm{C}-130 \mathrm{~J}$ (short).
 MC-130J (special operations), and the AC-130J (close air support and armed reconnaissance).
 life is 35 years and the average service life remaining is 26.6 years.

Funding for this exhibit is contained in PE 0401132F and PE 0401897F. Funding may be used to address Diminishing Manufacturing Sources (DMS) issues.
 been delivered with the ESL center wing.
 modification program. This way the aircraft and trainers will only have to be modified one time. The Block 8.1 mod includes Block 7.0 content.

The international C-130J Block 8.1 operational test \& evaluation (OT\&E) is complete.
 V IFF solution on all C-130J variants not scheduled to receive Block 8.1 by January 2020. All C-130Js still require Block 8.1.

This funding includes Rapid Global Mobility (RGM) platform related activities including but not limited to fielding actions.

## UNCLASSIFIED

| Exhibit P-40, Budget Line Item Justification: PB 2022 Air Force |  |  |  |  |  |  |  | Date: May 2021 |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: <br> 3010F: Aircraft Procurement, Air Force / BA 05: Modification of Inservice Aircraft / BSA 5: Other Aircraft |  |  |  |  | P-1 Line Item Number / Title: C1300J / C-130J Mods |  |  |  |  |  |
| ID Code (A=Service Ready, $\mathrm{B}=$ Not Service Ready): |  |  | Program Elements for Code B Items: 0401115F, 0401132F, 0401897F |  |  |  | Other Related Program Elements: 0401115F, 0401132F, 0401897F |  |  |  |
| Line Item MDAP/MAIS Code: N/A |  |  |  |  |  |  |  |  |  |  |
| NOTE: USMC KC-130Js and USCG HC-130Js are following USAF's lead and will also field combined Block 7/8.1 aircraft. |  |  |  |  |  |  |  |  |  |  |
| Secondary Distribution |  | FY 2020 | FY 2021 | $\begin{gathered} \text { FY } 2022 \\ \text { Base } \end{gathered}$ | $\begin{aligned} & \text { FY } 2022 \\ & \text { OCO } \end{aligned}$ | $\begin{gathered} \hline \text { FY } 2022 \\ \text { Total } \end{gathered}$ | FY 2023 | FY 2024 | FY 2025 | FY 2026 |
| AF | Quantity | - | - | - | - | - | - | - | - | - |
|  | Total Obligation Authority | 122.302 | 136.632 | 110.784 | - | 110.784 |  | - | - | - |
| Total: <br> Secondary Distribution | Quantity | - | - | - | - | - |  | - | - | - |
|  | Total Obligation Authority | 122.302 | 136.632 | 110.784 | - | 110.784 | - | - | - | - |

Appropriation / Budget Activity / Budget Sub Activity:
3010F: Aircraft Procurement, Air Force / BA 05: Modification of Inservice Aircraft /
BSA 5: Oth Aircraft

## P-1 Line Item Number / Title: <br> C1300J / C-130J Mods

BSA 5: Other Aircraft

| ID Code (A=Service Ready, B=Not Service Ready): |  | Program Elements for Code B Items: 0401115F, 0401132F, 0401897F |  |  |  |  |  | Other Related Program Elements: 0401115F, 0401132F, 0401897F |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Line Item MDAP/MAIS Code: N/A |  |  |  |  |  |  |  |  |  |  |
| Exhibits Schedule |  |  |  |  | Prior Years | FY 2020 | FY 2021 | FY 2022 Base | FY 2022 OCO | FY 2022 Total |
| Exhibit Type | Title* | Subexhibits | $\begin{array}{\|l\|l\|} \hline \text { ID } \\ \text { CD } \\ \hline \end{array}$ | MDAP/ MAIS Code | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) |
| P-40a*** | _2612 / Avionics System and Structural Modifications (Capability Improvement) |  |  |  | - / 27.628 | - 14.990 | - 10.750 | - 10.200 | - 1 - | - 10.200 |
| P-40a*** | _5296 / Wind Gust Brake (Reliability \& Maintainability) |  |  |  | - 139.849 | - 1 | - 1 | - 1 | - 1 | - 1 |
| P-40a*** | 8668 / WST Threat Generators (Capability Improvement) |  |  |  | - 10.796 | - 1 | - 15.948 | - 1 | - 1 | - 1 |
| P-40a*** | 99999X / Low Cost Modifications (Safety) |  |  |  | - / 10.210 | - 10.650 | - 10.750 | - 10.200 | - 1 | - 10.200 |
| P-3a | 5222 / BLOCK 8.1 (Capability Improvement) |  | B |  | - 1329.725 | - 190.979 | - 1115.790 | - 187.130 | - 10.000 | - 187.130 |
| P-3a | 8646 / C-130J Center Wing Replacement (Service Life Extension) |  | A |  | - /117.064 | - 125.683 | - /13.394 | - 123.254 | - 10.000 | - 123.254 |
| P-40 | Total Gross/Weapon System Cost |  |  |  | - 1525.272 | - 1122.302 | - /136.632 | - / 110.784 | - 1 - | - /110.784 |

*** Although this is an Exhibit P-40a item, the actual exhibit is not included since all of the required information for this item is already being shown here.
*Title represents 1) the Number / Title for Items; 2) the Number / Title [DODIC] for Ammunition; and/or 3) the Number / Title (Modification Type) for Modifications
Note: Totals in this Exhibit P-40 set may not be exact or sum exactly due to rounding
Justification:
FY 2022 funding request includes: Block 8.1, C-130J Center Wing Replacement, Low Cost mods, and Avionics Systems and Structures.

Exhibit P-3a, Individual Modification: PB 2022 Air Force

## Appropriation / Budget Activity / Budget Sub Activity:

## 3010F/05/5

ID Code ( $A=$ Serice Ready, $B=$ Not Service Ready : B

## P-1 Line Item Number / Title: C1300J/C-130J Mods

## Modification Number / Title:

5222 / BLOCK 8.1

| MDAP/MAIS Code: |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Resource Summary | Prior Years | FY 2020 | FY 2021 | FY 2022 Base | FY 2022 OCO | FY 2022 Total |
| Procurement Quantity (Units in Each) | - | - | - | - | - | - |
| Gross/Weapon System Cost (\$ in Millions) | 329.725 | 90.979 | 115.790 | 87.130 | 0.000 | 87.130 |
| Less PY Advance Procurement (\$ in Millions) | - | - | - | - | - | - |
| Net Procurement (P-1) (\$ in Millions) | 329.725 | 90.979 | 115.790 | 87.130 | 0.000 | 87.130 |
| Plus CY Advance Procurement (\$ in Millions) | - | - | - | - | - | - |
| Total Obligation Authority (\$ in Millions) | 329.725 | 90.979 | 115.790 | 87.130 | 0.000 | 87.130 |
| (The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.) |  |  |  |  |  |  |
| Initial Spares (\$ in Millions) | - | - | - | - | - | - |
| Gross/Weapon System Unit Cost (\$ in Millions) | - | - | - | - | - | - |

## Description:



 systems/parts obsolescence.


 collaborating with AFRC ad ANG units to provide funding in the out years to retrofit their respective units.

This funding request will support diminishing manufacturing sources and obsolescence solutions, to include if optimal, life of type buys or bridge buys limited to the program of record quantity.
This project contains procurement funding for related non-recurring engineering efforts, studies and risk reduction activities.
This project contains procurement funding for Program Management Administration (PMA) activities.
The number of kits procured is based on aircraft installations and available funding
The ADS-B Out and Mode V IFF capability was accelerated ahead of the complete Block 8.1 mod in order to meet the Jan 2020 mandate and is included in this document.
This program includes costs for the following C-130J aircraft variants: C-130J stretch aircraft, C-130J short aircraft, WC-130J aircraft, HC-130J aircraft, and EC-130J aircraft.
This funding includes Rapid Global Mobility (RGM) platform related activities including but not limited to fielding actions such as kit buys, installation and support equipment.
The spares for the Block 8.1 program are on the "Other Government Cost" line on this P3A.
This program includes cost for a SIL stand up as the DSOR states BU 7.0/8.1 software maintenance will be performed organically at WR-ALC.

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| Exhibit P-3a, Individual Modification: PB 2022 Air Force |  |  |  |  | Date: May 2021 |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5 |  | P-1 Line Item Number / Title: C1300J / C-130J Mods |  |  | Modification Number / Title: 5222 / BLOCK 8.1 |  |
| ID Code (A=Service Ready, B=Not Service Ready) : B |  |  | MDAP/MAIS Code: |  |  |  |
| The first combined Block 7.0/8.1 mod was delivered 1 Dec 2020. |  |  |  |  |  |  |
| Milestone/Development Status |  |  |  |  |  |  |
| Successful full rate production decision 1 Oct 2019. |  |  |  |  |  |  |
| BU 8.1 operational testing occurred 9 Jul 18 to 28 Sep 18 with no reported CAT 1 deficiencies, formal out brief provided to AMC 22 Jul 19. |  |  |  |  |  |  |
| Secondary Distribution |  | FY 2020 | FY 2021 | $\begin{gathered} \text { FY } 2022 \\ \text { Base } \end{gathered}$ | $\begin{gathered} \hline \text { FY } 2022 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \hline \text { FY } 2022 \\ \text { Total } \end{gathered}$ |
| AF | Quantity | - | - | - | - | - |
|  | Total Obligation Authority | 90.979 | 115.790 | 87.130 |  | 87.130 |
| Total: <br> Secondary Distribution | Quantity | - | - | - | - | - |
|  | Total Obligation Authority | 90.979 | 115.790 | 87.130 | 0.000 | 87.130 |

Exhibit P-3a, Individual Modification: PB 2022 Air Force Appropriation / Budget Activity / Budget Sub Activity 3010F / 05/5
ID Code (A=Service Ready, B=Not Service Ready) : B

## P-1 Line Item Number / Title: C1300J/C-130J Mods

Date: May 2021

## Modification Number / Title:

5222 / BLOCK 8.1

| ID Code (A=Service Ready, B=Not Service Ready) : B |  |  | MDAP/MAIS Code: |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Models of Systems Affected: C-130J | Modification Type: Capability Improvement |  |  | Related RDT\&E PEs: 0401132F |  |  |
| Financial Plan | Prior Years | FY 2020 | FY 2021 | FY 2022 Base | FY 2022 OCO | FY 2022 Total |
|  | $\begin{gathered} \text { Qty (Each) I } \\ \text { Total Cost (\$ M) } \end{gathered}$ | $\begin{aligned} & \text { Qty (Each) I } \\ & \text { Total Cost (\$ M) } \end{aligned}$ | $\begin{gathered} \text { Qty (Each) I } \\ \text { Total Cost (\$ M) } \end{gathered}$ | $\begin{gathered} \text { Qty (Each) I } \\ \text { Total Cost (\$ M) } \end{gathered}$ | $\begin{aligned} & \text { Qty (Each) I } \\ & \text { Total Cost (\$ M) } \end{aligned}$ | $\begin{gathered} \text { Qty (Each) I } \\ \text { Total Cost (\$ M) } \end{gathered}$ |
| RDT\&E PE \# |  |  |  |  |  |  |
| 0401132F | - 128.654 | 1 - | - 1 - | - 1- | - 1 - | - 1 |
| Procurement |  |  |  |  |  |  |
| Modification Item 1 of 2: ADS-B Out |  |  |  |  |  |  |
| A Kits |  |  |  |  |  |  |
| Recurring |  |  |  |  |  |  |
| ADS-B Out:INSTALL KITS Group A (Active) | 242 / 25.893 | - 1- | - 1- | - 1- | - 1 - | 1 - |
| Subtotal: Recurring | - /25.893 | - 1- | - 1 - | - 1- | - 1- | / - |
| B Kits |  |  |  |  |  |  |
| Recurring |  |  |  |  |  |  |
| ADS-B Out:EQUIPMENT Group B (Active) | $242 / 38.163$ | 1 - | 1 - | - 1- | - 1 - | 1- |
| Subtotal: Recurring | - /38.163 | - 1 - | / - | - 1 - | - 1 - | 1 - |
| Subtotal: ADS-B Out | - /64.056 | - / - | - / - | - / - | - / - | / - |
| Modification Item 2 of 2: Block 81 LM Kit |  |  |  |  |  |  |
| A Kits |  |  |  |  |  |  |
| Recurring |  |  |  |  |  |  |
| Block 81 LM Kit:INSTALL KITS Group A (Active) | 46/44.020 | 6/5.100 | 13/11.100 | 16/13.600 | - 1 - | 16/13.600 |
| Subtotal: Recurring | - /44.020 | - $/ 5.100$ | - /11.100 | - /13.600 | - 1 - | - /13.600 |
| B Kits |  |  |  |  |  |  |
| Recurring |  |  |  |  |  |  |
| Block 81 LM Kit:EQUIPMENT Group B (Active) | $46 / 70.557$ | 6/9.800 | 13/27.300 | 16/27.700 | - 1 - | 16/27.700 |
| Subtotal: Recurring | - /70.557 | - 19.800 | - /27.300 | - /27.700 | - 1 - | - /27.700 |
| Subtotal: Block 81 LM Kit | - /114.577 | - /14.900 | - 138.400 | - /41.300 | - 1- | - 141.300 |
| Subtotal: Procurement, All Modification Items | - /178.633 | - /14.900 | - /38.400 | - /41.300 | - / - | - /41.300 |
| Support (All Modification Items) |  |  |  |  |  |  |
| GROUP B: TOTAL NONRECURRING | - 139.496 | 1 - | - 1 - | - 1 - | - 1 - | - 1 - |
| OTHER GOVT | - 147.676 | - 125.863 | - $/ 14.552$ | - /1.637 | - 1- | - /1.637 |
| Data | - 12.583 | - 12.800 | - 11.800 | - 12.300 | - 1- | - 12.300 |
| GFP | - 18.300 | - 13.900 | - 18.800 | - 14.100 | - 1 - | - 14.100 |
| SIM/TRAINER | - /13.600 | - 12.600 | - 120.600 | - 15.500 | - 1 - | - 15.500 |
| SUPPORT-EQUIP | - 1- | - 1- | - 12.100 | - 10.900 | - 1 - | - 10.900 |
| ICS-Labor | - 1- | - 18.400 | - 17.480 | - 17.800 | - 1 - | - 17.800 |
| ICS-Material | - 1 - | - 18.440 | - 10.700 | - 11.185 | - 1 - | - /1.185 |

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| Exhibit P-3a, Individual Modification: PB 2022 Air Force |  |  |  |  | Date: May 2021 |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05/5 |  | P-1 Line Item Number / Title: C1300J / C-130J Mods |  |  | Modification Number / Title: 5222 I BLOCK 8.1 |  |
| ID Code (A=Service Ready, B=Not Service Ready) : B |  |  | MDAP/MAIS Code: |  |  |  |
| Models of Systems Affected: C-130J | Modification Type: Capability Improvement |  |  | Related RDT\&E PEs: 0401132F |  |  |
|  |  |  |  | FY 2022 Base | FY 2022 OCO | FY 2022 Total |
| Financial Plan | $\begin{gathered} \text { Qty (Each) I } \\ \text { Total Cost }(\$ M) \\ \hline \end{gathered}$ | $\begin{gathered} \text { Qty (Each)I } \\ \text { Total Cost (\$M) } \\ \hline \end{gathered}$ | $\begin{gathered} \text { Qty (Each) I } \\ \text { Total Cost }(\$ M) \\ \hline \end{gathered}$ | $\begin{gathered} \text { Qty (Each)I } \\ \text { Total Cost (\$M) } \\ \hline \end{gathered}$ | $\begin{gathered} \text { Qty (Each) I } \\ \text { Total Cost (\$M) } \\ \hline \end{gathered}$ | $\begin{gathered} \text { Qty (Each) I } \\ \text { Total Cost }(\$ M) \\ \hline \end{gathered}$ |
| PMA - Other Gov't Costs | - 19.356 | - 13.300 | - 18.350 | - 18.100 | - 1- | - 18.100 |
| Subtotal: Support | - /121.011 | - /47.303 | - 164.382 | - /31.522 | - 1 | - /31.522 |
| Installation |  |  |  |  |  |  |
| Modification Item 1 of 2: ADS-B Out | $176 / 6.500$ | $68 / 1.000$ | 1 - | - 1 - | - 1- | - 1- |
| Modification Item 2 of 2: Block 81 LM Kit | 9/23.581 | 14/27.776 | $12 / 13.008$ | 14/14.308 | - 1- | 14/14.308 |
| Subtotal: Installation | 185/30.081 | 82/28.776 | 12/13.008 | 14/14.308 | - 1- | 14/14.308 |
| Total |  |  |  |  |  |  |
| Total Cost (Procurement + Support + Installation) | 329.725 | 90.979 | 115.790 | 87.130 | 0.000 | 87.130 |

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| Exhibit P-3a, Individual Modification: PB 2022 Air Force |  |  |  |  | Date: May 2021 |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5 | P-1 Line Item Number / Title: C1300J / C-130J Mods |  |  |  | Modification Number / Title: 8646 / C-130J Center Wing Replacement |  |
| ID Code (A=Service Ready, B=Not Service Ready) : A |  |  | MDAP/MAIS Code: |  |  |  |
| Resource Summary | Prior Years | FY 2020 | FY 2021 | FY 2022 Base | FY 2022 OCO | FY 2022 Total |
| Procurement Quantity (Units in Each) | - | - | - | - | - | - |
| Gross/Weapon System Cost (\$ in Millions) | 117.064 | 25.683 | 13.394 | 23.254 | 0.000 | 23.254 |
| Less PY Advance Procurement (\$ in Millions) | - | - | - | - | - | - |
| Net Procurement (P-1) (\$ in Millions) | 117.064 | 25.683 | 13.394 | 23.254 | 0.000 | 23.254 |
| Plus CY Advance Procurement (\$ in Millions) | - | - | - | - | - | - |
| Total Obligation Authority (\$ in Millions) | 117.064 | 25.683 | 13.394 | 23.254 | 0.000 | 23.254 |
| (The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.) |  |  |  |  |  |  |
| Initial Spares (\$ in Millions) | - | - | - | - | - | - |
| Gross/Weapon System Unit Cost (\$ in Milions) | - | - | - | - | - | - |

## Description:



 Proposal) AMC-11-115, dated 19 Sep 11.

This project contains procurement funding for studies and risk reduction activities
Milestone/Development Status

| N/A |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Secondary Distribution |  | FY 2020 | FY 2021 | $\begin{gathered} \text { FY } 2022 \\ \text { Base } \end{gathered}$ | $\begin{gathered} \text { FY } 2022 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \text { FY } 2022 \\ \text { Total } \end{gathered}$ |
| AF | Quantity | - | - | - | - | - |
|  | Total Obligation Authority | 25.683 | 13.394 | 23.254 | - | 23.254 |
| Total: <br> Secondary Distribution | Quantity | - | - | - | - | - |
|  | Total Obligation Authority | 25.683 | 13.394 | 23.254 | 0.000 | 23.254 |


| Exhibit P-3a, Individual Modification: PB 2022 Air Force |  |  |  |  | Date: May 2021 |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5 |  | P-1 Line Item Number / Title: C1300J / C-130J Mods |  |  | Modification Number / Title: 8646 / C-130J Center Wing Replacement |  |
| ID Code (A=Service Ready, B=Not Service Ready) : A |  |  | MDAP/MAIS Code: |  |  |  |
| Models of Systems Affected: C-130J | Modification Type: Service Life Extension |  |  | Related RDT\&E PEs: |  |  |
|  | Prior Years | FY 2020 | FY 2021 | FY 2022 Base | FY 2022 OCO | FY 2022 Total |
| Financial Plan | $\begin{gathered} \text { Qty (Each) I } \\ \text { Total Cost }(\$ M) \\ \hline \end{gathered}$ | $\begin{gathered} \text { Qty (Each) I } \\ \text { Total Cost }(\$ M) \\ \hline \end{gathered}$ | $\begin{gathered} \text { Qty (Each) I } \\ \text { Total Cost }(\$ M) \end{gathered}$ | $\begin{gathered} \text { Qty (Each) I } \\ \text { Total Cost (\$ M) } \\ \hline \end{gathered}$ | $\begin{gathered} \text { Qty (Each) I } \\ \text { Total Cost }(\$ M) \\ \hline \end{gathered}$ | $\begin{gathered} \text { Qty (Each) I } \\ \text { Total Cost (\$M) } \\ \hline \end{gathered}$ |
| Procurement |  |  |  |  |  |  |
| Modification Item 1 of 1: Install Kit C-130J Contract 1 Group A |  |  |  |  |  |  |
| A Kits |  |  |  |  |  |  |
| Recurring |  |  |  |  |  |  |
| Install Kit C-130J Contract 1 Group A:INSTALL KITS Group A (Active) | 15/59.433 | 4/16.249 | 3/12.893 | 2/9.670 | - 1- | 219.670 |
| Install Kit C-130J Contract 1 Group A:INSTALL KITS Group A (Reserve) | 1/4.330 | - 1 - | - 1 - | - 1 - | - 1 - | - 1- |
| Subtotal: Recurring | - 163.763 | - /16.249 | - /12.893 | - 19.670 | 1 | - 19.670 |
| Subtotal: Install Kit C-130J Contract 1 Group A | - 163.763 | - /16.249 | - /12.893 | - 19.670 | - 1- | - 19.670 |
| Subtotal: Procurement, All Modification Items | - 163.763 | - /16.249 | - /12.893 | - 19.670 | - 1 - | - 19.670 |
| Support (All Modification Items) |  |  |  |  |  |  |
| GROUP A: TOTAL NONRECURRING | - 18.240 | - 1- | - $1-$ | - $1-$ | - 1- | -1- |
| Change Orders | - 10.125 | - 1- | - 1- | - 10.454 | - 1- | - 10.454 |
| Data | - 11.382 | - 1- | - 1- | - 1 - | -1- | -1- |
| OCO INSTALLATIONS | - 10.004 | - 1- | - 1- | - 1 - | -1- | - 1- |
| PMA - Contractor Services | - 12.906 | - 10.494 | - 10.465 | - 10.473 | - 1- | - 10.473 |
| PMA - Other Gov't Costs | - 10.051 | - 10.035 | - 10.036 | - 10.036 | - 1- | - 10.036 |
| Subtotal: Support | - /12.708 | - 10.529 | - 10.501 | -10.963 | - 1- | - 10.963 |
| Installation |  |  |  |  |  |  |
| Modification Item 1 of 1: Install Kit C-130J Contract 1 Group A Group A | 10/40.593 | 3/8.905 | 2/0.000 | 4/12.621 | 1 | 4/12.621 |
| Subtotal: Installation | 10/40.593 | 3/8.905 | 21. | $4 / 12.621$ | - 1- | 4/12.621 |
| Total |  |  |  |  |  |  |
| Total Cost (Procurement + Support + Installation) | 117.064 | 25.683 | 13.394 | 23.254 | 0.000 | 23.254 |

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Exhibit P-40, Budget Line Item Justification: PB 2022 Air Force
Date: May 2021
Appropriation / Budget Activity / Budget Sub Activity:
3010F: Aircraft Procurement, Air Force / BA 05: Modification of Inservice Aircraft /
BSA 5: Other Aircraft

## P-1 Line Item Number / Title:

C13500 / C-135

Program Elements for Code B Items: 0401218F

| Prior <br> Years | FY 2020 | FY 2021 | $\begin{gathered} \text { FY } 2022 \\ \text { Base } \end{gathered}$ | $\begin{gathered} \text { FY } 2022 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \text { FY } 2022 \\ \text { Total } \end{gathered}$ | FY 2023 | FY 2024 | FY 2025 | FY 2026 | To Complete | Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| - | - | - | - | - | - | - | - | - | - | - | - |
| 372.964 | 113.351 | 82.350 | 61.376 | - | 61.376 | - | - | - | - | - | - |
| - | - | - | - | - | - | - | - | - | - | - | - |
| 372.964 | 113.351 | 82.350 | 61.376 | - | 61.376 | - | - | - | - | - | - |
| - | - | - | - | - | - | - | - | - | - | - | - |
| 372.964 | 113.351 | 82.350 | 61.376 | - | 61.376 | - | - | - | - | - | - |

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

## Initial Spares (\$ in Millions) <br> Flyaway Unit Cost (\$ in Millions) <br> Gross/Weapon System Unit Cost (\$ in Millions)

## Description:


 remaining. The C/KC-135 has a retirement strategy through its projected service life of 2060.

Funding may be used to address Diminishing Manufacturing Sources (DMS) issues.
 defense missions, domestic emergency responses, and providing military support to civil authorities.

Funding for this exhibit is contained in PE 0401218F.

| Secondary Distribution |  | FY 2020 | FY 2021 | $\begin{gathered} \text { FY } 2022 \\ \text { Base } \end{gathered}$ | $\begin{gathered} \text { FY } 2022 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \text { FY } 2022 \\ \text { Total } \end{gathered}$ | FY 2023 | FY 2024 | FY 2025 | FY 2026 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| AF | Quantity | - | - | - | - | - | - | - | - | - |
|  | Total Obligation Authority | 77.011 | 34.215 | 20.030 | - | 20.030 | - | - | - | - |
| AFNG | Quantity | - | - | - | - | - | - | - | - | - |
|  | Total Obligation Authority | 26.036 | 33.864 | 27.425 | - | 27.425 | - | - | - | - |
| AFR | Quantity | - | - | - | - | - | - | - | - | - |
|  | Total Obligation Authority | 10.304 | 14.271 | 13.921 | - | 13.921 | - | - | - | - |
| Total: Secondary Distribution | Quantity | - | - | - | - | - | - | - | - | - |
|  | Total Obligation Authority | 113.351 | 82.350 | 61.376 | - | 61.376 | - | - | - | - |

Exhibit P-40, Budget Line Item Justification: PB 2022 Air Force
Date: May 2021

## Appropriation / Budget Activity / Budget Sub Activity: <br> 3010F: Aircraft Procurement, Air Force / BA 05: Modification of Inservice Aircraft /

 BSA 5: Other Aircraft| ID Code (A=Service Ready, B=Not Service Ready): |  | Program Elements for Code B Items: 0401218F |  |  |  |  | Other Related Program Elements: N/A |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Line Item MDAP/MAIS Code: N/A |  |  |  |  |  |  |  |  |  |  |
| Exhibits Schedule |  |  |  |  | Prior Years | FY 2020 | FY 2021 | FY 2022 Base | FY 2022 OCO | FY 2022 Total |
| Exhibit Type | Title* | Subexhibits | $\begin{aligned} & \text { ID } \\ & \text { CD } \end{aligned}$ | MDAP/ MAIS Code | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) |
| P-40a*** | 9818/VOR/LS ANTENNAE (Capability Improvement) |  |  |  | - 19.285 | - 10.001 | - 10.001 | - 10.001 | - 1 - | - 10.001 |
| P-40a*** | 9824 / ADS-B (Capability Improvement) |  |  |  | - / 14.019 | - 1 - | 1 | - 1 | - 1 - | 1 |
| P-40a*** | 9827 / KC-135 AERO-I SATCOM replacement (Reliability \& Maintainability) |  |  |  | 10.000 | - / 28.581 | - / 16.274 | - / 1.782 | - 1 - | - 11.782 |
| P-40a*** | 9828 / Real Time in the Cockpit (RTIC) (Capability Improvement) |  |  |  | - 126.200 | - $/ 18.200$ | - 10.000 | - 10.000 | - 1 - | - 10.000 |
| P-40a*** | 99999A / LOW COST SAFETY MODIFICATIONS (Capability Improvement) |  |  |  | 10.025 | - 10.025 | - 10.025 | - 10.025 | - 1 - | - 10.025 |
| P-40a*** | 99999X / Low Cost Modifications (Capability Improvement) |  |  |  | - /13.479 | - 10.995 | - 11.995 | - 11.995 | - 1 - | - 11.995 |
| P-3a | 8653 / BLOCK 45 (Capability Improvement) |  | A |  | - 1303.592 | - / 47.617 | - 160.185 | - / 48.794 | - 10.000 | - $/ 48.794$ |
| P-3a | 9826 / Rudder Position Indicator (RPI) (Capability Improvement) |  | B |  | - 16.364 | - / 17.932 | - 13.870 | - 18.779 | - 10.000 | - 18.779 |
| P-40 | Total Gross/Weapon System Cost |  |  |  | - 1372.964 | - / 113.351 | - 182.350 | - $/ 61.376$ | - 1 - | - 161.376 |

${ }^{* * *}$ Although this is an Exhibit P-40a item, the actual exhibit is not included since all of the required information for this item is already being shown here.
*Title represents 1) the Number / Title for Items; 2) the Number / Title [DODIC] for Ammunition; and/or 3) the Number / Title (Modification Type) for Modifications
Note: Totals in this Exhibit P-40 set may not be exact or sum exactly due to rounding

Justification:
FY 2022 primary efforts include: KC-135 AERO-I SATCOM, Block 45, Rutter Position Indicator (RPI), and Low Cost Modifications.

Exhibit P-3a, Individual Modification: PB 2022 Air Force Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5
ID Code (A=Service Ready, B=Not Service Ready) : A

## P-1 Line Item Number / Title: C13500 / C-135

Date: May 2021

## Modification Number / Title:

8653 / BLOCK 45

| MDAP/MAIS Code: |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Resource Summary | Prior Years | FY 2020 | FY 2021 | FY 2022 Base | FY 2022 OCO | FY 2022 Total |
| Procurement Quantity (Units in Each) | - | - | - | - | - | - |
| Gross/Weapon System Cost (\$ in Millions) | 303.592 | 47.617 | 60.185 | 48.794 | 0.000 | 48.794 |
| Less PY Advance Procurement (\$ in Millions) | - | - | - | - | - | - |
| Net Procurement (P-1) (\$ in Millions) | 303.592 | 47.617 | 60.185 | 48.794 | 0.000 | 48.794 |
| Plus CY Advance Procurement (\$ in Millions) | - | - | - | - | - | - |
| Total Obligation Authority (\$ in Millions) | 303.592 | 47.617 | 60.185 | 48.794 | 0.000 | 48.794 |
| (The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.) |  |  |  |  |  |  |
| Initial Spares (\$ in Millions) | - | - | - | - | - | - |
| Gross/Weapon System Unit Cost (\$ in Millions) | - | - | - | - | - | - |

## Description:



 Block 45 program's associated Research Development Test and Evaluation funding (PE 0401218F) modified two prototype aircraft. The remaining 397 aircraft will be funded with APAF.

Funding may be used to address Diminishing Manufacturing Sources (DMS) issues.
This modification supports performance of a full financial audit as required by title 10 U.S.C. Chapter 9A, Sec 240-D
Milestone/Development Status

| Secondary Distribution |  | FY 2020 | FY 2021 | $\begin{gathered} \text { FY } 2022 \\ \text { Base } \end{gathered}$ | $\begin{gathered} \text { FY } 2022 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \text { FY } 2022 \\ \text { Total } \end{gathered}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| AF | Quantity | - | - | - | - | - |
|  | Total Obligation Authority | 13.709 | 19.839 | 9.767 | - | 9.767 |
| AFNG | Quantity | - | - | - | - | - |
|  | Total Obligation Authority | 24.279 | 27.841 | 25.717 | - | 25.717 |
| AFR | Quantity | - | - | - | - | - |
|  | Total Obligation Authority | 9.629 | 12.505 | 13.310 | - | 13.310 |
| Total: | Quantity | - | - | - | - | - |
| Secondary Distribution | Total Obligation Authority | 47.617 | 60.185 | 48.794 | 0.000 | 48.794 |



## UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2022 Air Force Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5
ID Code (A=Service Ready, B=Not Service Ready) : A
Modification Item 1 of 1: Block 45

## Manufacturer Information



Method of Implementation: Depot

|  | Prior Years | FY 2020 | FY 2021 | FY 2022 Base | FY 2022 OCO | FY 2022 Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Installation Cost | Qty (Each) I Total Cost (\$ M) | Qty (Each) I Total Cost (\$ M) | Qty (Each) I Total Cost (\$ M) | Qty (Each) I Total Cost (\$ M) | $\begin{gathered} \text { Qty (Each) I } \\ \text { Total Cost (\$ M) } \end{gathered}$ | Qty (Each) I Total Cost (\$ M) |
| Prior Years | $141 / 58.367$ | 26/12.251 | - 1 - | - 1 - | - 1 | - 1 |
| FY 2020 | - 1 - | 2/0.898 | 36/16.964 | - 1 - | - 1 | 1 |
| FY 2021 | - 1 | - 1 - | 2/0.942 | $36 / 16.164$ | - 1 | 36/16.164 |
| FY 2022 | - 1- | - 1- | - 1 - | 2/0.898 | 1 | 2/0.898 |
| Total | $141 / 58.367$ | 28/13.149 | 38/17.906 | $38 / 17.062$ | - 1 - | $38 / 17.062$ |

UNCLASSIFIED

| Exhibit P-3a, Individual Modification: PB 2022 Air Force |  |  |  |  |  |  |  |  |  | Date: May 2021 |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5 |  |  |  |  | P-1 Line Item Number / Title: C13500 / C-135 |  |  |  |  | Modification Number / Title: 8653 / BLOCK 45 |  |  |  |
| ID Code (A=Service Ready, B=Not Service Ready) : A |  |  |  |  |  |  | MDAP/MAIS Code: |  |  |  |  |  |  |
| Modification Item 1 of 1: Block 45 |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Installation Information |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Method of Implementation: Depot |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Installation Schedule |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | PYS | FY 2020 |  |  |  | FY 2021 |  |  |  | FY 2022 |  |  |  |
|  |  | Q1 | Q2 | Q3 | Q4 | Q1 | Q2 | Q3 | Q4 | Q1 | Q2 | Q3 | Q4 |
| In | 141 | 9 | 4 | 5 | 10 | 9 | 10 | 9 | 10 | 9 | 10 | 9 | 10 |
| Out | 131 | 10 | 9 | 4 | 5 | 10 | 9 | 10 | 9 | 10 | 9 | 10 | 9 |

## UNCLASSIFIED



Exhibit P-3a, Individual Modification: PB 2022 Air Force Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5
ID Code (A=Serice Ready, $B=$ Not Service Ready) : B

| ID Code (A=Service Ready, B=Not Service Ready) : B |  |  | MDAP/MAIS Code: |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Models of Systems Affected: KC-135 | Modification Type: Capability Improvement |  |  | Related RDT\&E PEs: |  |  |
| Financial Plan | Prior Years | FY 2020 | FY 2021 | FY 2022 Base | FY 2022 OCO | FY 2022 Total |
|  | $\begin{gathered} \text { Qty (Each) I } \\ \text { Total Cost (\$ M) } \end{gathered}$ | $\begin{gathered} \text { Qty (Each) I } \\ \text { Total Cost (\$ M) } \end{gathered}$ | $\begin{gathered} \text { Qty (Each) I } \\ \text { Total Cost (\$ M) } \end{gathered}$ | $\begin{gathered} \text { Oty (Each)I } \\ \text { Total Cost (\$ M) } \end{gathered}$ | $\begin{gathered} \text { Qty (Each) I } \\ \text { Total Cost }(\$ M) \\ \hline \end{gathered}$ | $\begin{gathered} \text { Oty (Each) I } \\ \text { Total Cost (\$ M) } \end{gathered}$ |
| Procurement |  |  |  |  |  |  |
| Modification Item 1 of 1: RPI |  |  |  |  |  |  |
| A Kits |  |  |  |  |  |  |
| Recurring |  |  |  |  |  |  |
| RPI:INSTALL KITS Group A (Active) | 0/0.000 | 3310.790 | $27 / 0.651$ | $30 / 0.766$ | $1-$ | $30 / 0.766$ |
| RP:INSTALL KITS Group A (Guard) | 0/0.000 | $36 / 0.862$ | $30 / 0.723$ | $33 / 0.842$ | 1 - | $33 / 0.842$ |
| RPI:INSTALL KITS Group A (Reserve) | 0/0.000 | $14 / 0.336$ | 10/0.241 | $12 / 0.306$ | 1 | 12/0.306 |
| Subtotal: Recurring | - 10.000 | - 11.988 | - 11.615 | - /1.914 | 1 - | - /1.914 |
| B Kits |  |  |  |  |  |  |
| Recurring |  |  |  |  |  |  |
| RP: EQUIPMENT Group B (Active) | - 1- | $33 / 0.798$ | 2710.653 | 30/0.725 | 1 - | $30 / 0.725$ |
| RP: EQUIPMENT Group B (Guard) | 1 - | $36 / 0.870$ | $30 / 0.725$ | 3310.798 | 1. | 33/0.798 |
| RPI:EQUIPMENT Group B (Reserve) | - 1. | $14 / 0.339$ | $10 / 0.242$ | $12 / 0.290$ | 1 - | $12 / 0.290$ |
| Subtotal: Recurring | 1. | - 12.007 | - 11.620 | - 11.813 | 1 | - /1.813 |
| Subtotal: RPI | - 10.000 | - 13.995 | - 13.235 | - 13.727 | 1. | - 13.727 |
| Subtotal: Procurement, All Modification Items | - 10.000 | - 13.995 | - 13.235 | - 13.727 | 1 | - 13.727 |
| Support (All Modification Items) |  |  |  |  |  |  |
| GROUP A: TOTAL NONRECURRING | 1 - | - 13.400 | $1-$ | - 1- | $1-$ | 1. |
| GROUP B: TOTAL NONRECURRING | - 1 - | - 11.555 | - 1- | - 1- | $1-$ | -1- |
| Change Orders | - 10.250 | - 11.535 | - 10.001 | - 10.194 | 1 - | - 10.194 |
| Data | - 10.140 | - 1 - | - 10.001 | - 10.000 | - 1 - | - 10.000 |
| SIM/TRAINER | 19/2.869 | 0/0.000 | - 1 - | - 1. | 1 - | 1. |
| PMA - Contractor Services | - 10.770 | - 10.500 | - 10.001 | - 10.150 | $1-$ | - 10.150 |
| PMA - Other Gov't Costs | - 11.135 | - 10.775 | - 10.001 | - 10.000 | $1-$ | - 10.000 |
| OTHER GOVT | - 11.200 | - 16.172 | - 10.631 | - 14.708 | $1-$ | - 14.708 |
| Subtotal: Support | 19/6.364 | 0/13.937 | - 10.635 | - 15.052 | - / - | - 15.052 |
| Installation |  |  |  |  |  |  |
| Subtotal: Installation | - 1 - | - 1 - | - / - | - 1 - | - / - | 1 - |
| Total |  |  |  |  |  |  |
| Total Cost (Procurement + Support + Installation) | 6.364 | 17.932 | 3.870 | 8.779 | 0.000 | 8.779 |

## P-1 Line Item Number / Title:

C13500 / C-135

Date: May 2021
Modification Number / Title:
9826 / Rudder Position Indicator (RPI)

UNCLASSIFIED

| Exhibit P-3a, Individual Modification: PB 2022 Air Force |  |  | Date: May 2021 |
| :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5 | P-1 Line Item Number / Title: C13500 / C-135 |  | Modification Number / Title: 9826 / Rudder Position Indicator (RPI) |
| ID Code (A=Service Ready, $\mathrm{B}=$ Not Service Ready) : B |  | MDAP/MAIS Code: |  |
| Modification Item 1 of 1: RPI |  |  |  |
| Manufacturer Information |  |  |  |
| Manufacturer Name: TBD |  | Manufacturer Location: TBD |  |
| Administrative Leadtime (in Months): 2 |  | Production Leadtime (in Months): 9 |  |
| Dates | FY 2020 | FY 2021 | FY 2022 |
| Contract Dates | Dec 2019 | Dec 2020 | Dec 2021 |
| Delivery Dates | Sep 2020 | Sep 2021 | Sep 2022 |
|  |  |  |  |
| Installation Information |  |  |  |
| Method of Implementation (Organic): Org/Intermediate |  | Installation Quantity: 359 |  |

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Appropriation / Budget Activity / Budget Sub Activity:
3010F: Aircraft Procurement, Air Force / BA 05: Modification of Inservice Aircraft /
BSA 5: Other Aircraft

## P-1 Line Item Number / Title:

CALLOO / Compass Call

| ID Code (A=Service Ready, B=Not Service Ready): A | Program Elements for Code B Items: N/A | Other Related Program Elements: 0207253F |
| :---: | :---: | :---: |

Line Item MDAP/MAIS Code: N/A

| Resource Summary | Prior <br> Years | FY 2020 | FY 2021 | $\text { FY } 2022$ Base | $\begin{gathered} \text { FY } 2022 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \text { FY } 2022 \\ \text { Total } \end{gathered}$ | FY 2023 | FY 2024 | FY 2025 | FY 2026 | To Complete | Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Procurement Quantity (Units in Each) | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Cost (\$ in Millions) | 500.973 | 110.539 | 180.983 | 195.098 | - | 195.098 | - | - | - | - | - | - |
| Less PY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Net Procurement (P-1) (\$ in Millions) | 500.973 | 110.539 | 180.983 | 195.098 | - | 195.098 | - | - | - | - | - | - |
| Plus CY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Total Obligation Authority (\$ in Millions) | 500.973 | 110.539 | 180.983 | 195.098 | - | 195.098 | - | - | - | - | - | - |
| (The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.) |  |  |  |  |  |  |  |  |  |  |  |  |
| Initial Spares (\$ in Millions) | - | 10.805 | 10.985 | 65.624 | - | 65.624 | - | - | - | - | - | - |
| Flyaway Unit Cost (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Unit Cost (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |

## Description:

COMPASS CALL is the Air Force's wide-area, standoff, Airborne Electronic Attack (AEA) Command and Control Warfare/Information Operations (C2W/IO) weapon system. The employment of this weapon system interrupts the adversary's use of the electronic battlespace and is a key active component in the information battlespace and prosecution of Overseas Contingency Operations (OCO). COMPASS CALL's sophisticated electronic attack system is capable of surgical denial and/or disruption of adversary Radio Frequency (RF) communications, radar and sensor systems. Procurement funds are required for modification kit production (hardware, firmware, and software), installation, certification and test on an EC-37B re-host platform in accordance with the Baseline upgrade cyclic schedule.

The current COMPASS CALL program of record as of second quarter FY2021 includes the following resources: ten (10) Primary Mission Aircraft Inventory (PMAI), Combat Support coded (CA) EC-130H aircraft, one (1) Backup Aircraft Inventory (BAI), Training coded (TF) TC-130H trainer aircraft, one (1) EC-130H Weapon System Trainer (WST, flight deck simulator), and two (2) COMPASS CALL Mission Crew Simulators (CCMCS). Four (4) EC-130H aircraft have been divested between FY2018 and FY2020. One (1) EC-130H will retire in 4Q FY2021. An additional two (2) EC-130H aircraft will retire in FY2022, the first in 1Q, the second in 2Q. Due to the age of the EC-130H fleet (average is 46 years) the re-hosting of the Prime Mission Equipment (PME) is crucial to ensuring the survival of this critical capability.

On 23 March 2016, a Doctrine, Organization, Training, materiel, Leadership \& Education, Personnel, Facilities (DOTmLPF) Change Recommendation (DCR) was approved. This requirement drives the rehosting of COMPASS CALL PME from the EC-130H to a modern, more cost-effective, survivable and operationally suitable commercial derivative aircraft which meets the range, speed, endurance and operating altitude needs of the combatant commands in an Anti-Access/Area Denial (A2AD) environment. As a result, in FY2017, the COMPASS CALL re-host program was initiated to begin the transition to the EC-37B platform. The re-hosted COMPASS CALL platform is based on a commercially-available modified G550 aircraft that already holds Federal Aviation Administration (FAA) Supplemental Type Certificates (STC) for airworthiness. The platform will undergo modifications to host COMPASS CALL's PME and antenna arrays and receive additional STCs and Military Type Certificates (MTC). The EC-37B aircraft utilize PME harvested from the MBL2 EC-130H aircraft and upgraded to the latest Baseline. The EC-37B program is highly concurrent with developmental and procurement activities occurring in parallel.

Transitioning to the re-host effort, the program of record has procured six (6) new commercial derivative aircraft to date. The first five (5) EC-37B aircraft procured in FY2017-FY2020 will be configured with Baseline 3 (BL3) PME. These aircraft will receive PME from legacy donor EC-130H aircraft, as well as new and updated PME. The sixth EC-37B aircraft procured in FY2021 will be the first Baseline 4 (BL4) configured aircraft. In FY2022, the Compass Call program has deferred procurement of the seventh EC-37B aircraft, associated installations, and PME kit buy and realigned the associated FY2022 funding elsewhere within the program. This decision was critical in order to maintain the aggressive BL4 development and fielding schedule as well as address deferred requirements that cannot be deferred further. These requirements include BL4 development activities, procurement of BL3 and BL4 support equipment for the PME and modified aircraft, procurement of the BL4 CCMCS, execution of change orders that have emerged as a result of concurrent design and production, modification of sixth EC-37B aircraft to a BL4 configuration and procurement of non-developmental hardware for lower-level BL4 integration activities.

## Appropriation / Budget Activity / Budget Sub Activity: <br> 3010F: Aircraft Procurement, Air Force / BA 05: Modification of Inservice Aircraft /

## P-1 Line Item Number / Title:

CALLOO I Compass Call
BSA 5: Other Aircraft
ID Code (A=Service Ready, B=Not Service Ready): A
Program Elements for Code B Items: N/A
Other Related Program Elements: 0207253F

## Line Item MDAP/MAIS Code: N/A

 Aircraft Procurement, Air Force appropriation, Budget Activity 04, Budget Sub Activity 05 under P-1 line item CALL00/COMPASS CALL.

 hardware for lower-level BL4 integration activities.

Funding may be used to address Diminishing Manufacturing Sources (DMS) issues.
Funding for this exhibit is contained in PE 0207253F.


 provide for the training and qualification of aircrew and ground personnel as well as address training obsolescence issues.
 and/or emerging Combatant Command requirements through the integration of Quick Reaction Capability (QRC) kits and other high-priority efforts.

This modification supports performance of a full financial audit as required by title 10 U.S.C. Chapter 9A, Sec 240-D.

| Exhibit P-40, Budget Line Item Justification: PB 2022 Air Force |  |  |  |  |  |  |  | Date: May 2021 |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: <br> 3010F: Aircraft Procurement, Air Force / BA 05: Modification of Inservice Aircraft / BSA 5: Other Aircraft |  |  |  |  |  | P-1 Line Item Number / Title: CALLO0 / Compass Call |  |  |  |  |
| ID Cod | (A=Service Ready, B=Not Service Ready): A | Program Elements for Code B Items: N/A |  |  |  |  | Other Related Program Elements: 0207253F |  |  |  |
| Line Item MDAP/MAIS Code: N/A |  |  |  |  |  |  |  |  |  |  |
| Exhibits Schedule |  |  |  |  | Prior Years | FY 2020 | FY 2021 | FY 2022 Base | FY 2022 OCO | FY 2022 Total |
| Exhibit Type | Title* | Subexhibits | $\begin{array}{\|l\|l\|} \hline \text { ID } \\ \text { CD } \end{array}$ | $\begin{gathered} \text { MDAP/ } \\ \text { MAIS } \\ \text { Code } \end{gathered}$ | Quantity / Total Cost <br> (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) |
| P-40a*** | 1001 / COMPASS CALL (Capability Improvement) |  |  |  | - /36.366 | - 1 - | - /11.300 | - 1 - | - 1 | - 1 |
| P-3a | 1003 / COMPASS CALL Baseline Modifications (Capability Improvement) |  | A |  | - 1464.607 | - / 110.539 | - / 169.683 | - / 195.098 | - 10.000 | - / 195.098 |
| P-40 | Total Gross/Weapon System Cost |  |  |  | - 1500.973 | - /110.539 | - /180.983 | - /195.098 | - 1 | - / 195.098 |

*** Although this is an Exhibit P-40a item, the actual exhibit is not included since all of the required information for this item is already being shown here.
*Title represents 1) the Number / Title for Items; 2) the Number / Title [DODIC] for Ammunition; and/or 3) the Number / Title (Modification Type) for Modifications.
Note: Totals in this Exhibit P-40 set may not be exact or sum exactly due to rounding.

## Justification:

Where applicable, justification for individual modifications is provided in the P-3A exhibits.

Exhibit P-3a, Individual Modification: PB 2022 Air Force

## Appropriation / Budget Activity / Budget Sub Activity:

 3010F/05/5
## P-1 Line Item Number / Title: CALLOO / Compass Call

Date: May 2021

## Modification Number / Title:

1003 / COMPASS CALL Baseline Modifications

| ID Code (A=Service Ready, B=Not Service Ready) : A | MDAP/MAIS Code: |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Resource Summary | Prior Years | FY 2020 | FY 2021 | FY 2022 Base | FY 2022 OCO | FY 2022 Total |
| Procurement Quantity (Units in Each) | - | - | - | - | - | - |
| Gross/Weapon System Cost (\$ in Millions) | 464.607 | 110.539 | 169.683 | 195.098 | 0.000 | 195.098 |
| Less PY Advance Procurement (\$ in Millions) | - | - | - | - | - | - |
| Net Procurement (P-1) (\$ in Millions) | 464.607 | 110.539 | 169.683 | 195.098 | 0.000 | 195.098 |
| Plus CY Advance Procurement (\$ in Millions) | - | - | - | - | - | - |
| Total Obligation Authority (\$ in Millions) | 464.607 | 110.539 | 169.683 | 195.098 | 0.000 | 195.098 |
| (The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.) |  |  |  |  |  |  |
| Initial Spares (\$ in Millions) | 55.516 | 10.805 | 10.985 | 65.624 | - | 65.624 |
| Gross/Weapon System Unit Cost (\$ in Millions) | - | - | - | - | - | - |

## Description:





 firmware, and software, procurement of system integration lab components, installation, certification, and test) on a re-host platform in accordance with the Baseline upgrade cyclic schedule.





 Architecture)

 and program management administration (PMA) requirements.



 include those associated with aircraft installs and the recurring costs of a PME kit.

The following is an explanation for the fluctuations in Group A and Group B kit costs in FY2020 and FY2021:

Exhibit P-3a, Individual Modification: PB 2022 Air Force

## Appropriation / Budget Activity / Budget Sub Activity:

 3010F/05/5
## P-1 Line Item Number / Title: <br> CALLOO I Compass Call

Date: May 2021

## Modification Number / Title:

1003 / COMPASS CALL Baseline Modifications

ID Code (A=Service Ready, B=Not Service Ready) : A

## MDAP/MAIS Code:

- FY2020 Group A Recurring engineering: Due to Aircraft \#5 installation cost increases and acceleration of BL4 integration NRE, the Compass Call program deferred procurement of the fifth EC-37B Group A kit to FY2021.
 to FY2021.
 on PME kit buys.
 procurement of PME and aircraft support equipment, implementation of change orders as well as integration and test activities for BL3.

Support activities within the financial plan include PME Group A and Group B NRE, program management administration (PMA), support equipment, and simulator and trainer upgrades.

 procured in FY2022 will be done so using funding realigned from BA 04 to BA 05 and is critical to maintain overall BL4 development and integration schedule.

 configurations, PMA is expected to increase within BA 05 annually.
 requirement will be funded using funding realigned from BA 04 as well as the Aircraft \#7 PME kit as a result of the deferral of the procurement of Aircraft \#7.



 material, and integration.




Funding for this exhibit is contained in PE 0207253F.
Milestone/Development Status

 complete Critical Design Review (CDR) in 3Q FY2022.

| Exhibit P-3a, Individual Modification: PB 2022 Air Force |  |  |  |  | Date: May 2021 |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5 |  | P-1 Line Item Number / Title: CALL00 / Compass Call |  |  | Modification Number / Title: 1003 / COMPASS CALL Baseline Modifications |  |
| ID Code (A=Service Ready, B=Not Service Ready) : A |  |  | MDAP/MAIS Code: |  |  |  |
| Models of Systems Affected: EC-37B | Modification Type: Capability Improvement |  |  | Related RDT\&E PEs: 0207253F |  |  |
|  | Prior Years | FY 2020 | FY 2021 | FY 2022 Base | FY 2022 OCO | FY 2022 Total |
|  | $\begin{gathered} \text { Qty (Each) I } \\ \text { Total Cost }(\$ M) \\ \hline \end{gathered}$ | $\begin{gathered} \text { Qty (Each) I } \\ \text { Total Cost (\$M) } \end{gathered}$ | Qty (Each) I <br> Total Cost (\$ M) | $\begin{gathered} \text { Qty (Each) I } \\ \text { Total Cost (\$M) } \end{gathered}$ | $\begin{gathered} \text { Qty (Each) I } \\ \text { Total Cost (\$M) } \\ \hline \end{gathered}$ | Qty (Each) I Total Cost (\$ M) |
| Procurement |  |  |  |  |  |  |
| Modification Item 1 of 1: COMPASS CALL MODS |  |  |  |  |  |  |
| A Kits |  |  |  |  |  |  |
| Recurring |  |  |  |  |  |  |
| COMPASS CALL MODS:INSTALL KITS Group A (Active) | 4/46.349 | 1 - | 2/18.638 | - 1- | - 1- | 1 - |
| Subtotal: Recurring | - /46.349 | - 1- | - /18.638 | - 1- | - 1 - | - 1 - |
| B Kits |  |  |  |  |  |  |
| Recurring |  |  |  |  |  |  |
| COMPASS CALL MODS:EQUIPMENT Group B (Active) | 4/163.170 | 1/27.916 | 1/46.975 | - 1 - | -1- | - 1 - |
| Subtotal: Recurring | - /163.170 | - /27.916 | - /46.975 | -1 | - 1- | - 1- |
| Subtotal: COMPASS CALL MODS | - /209.519 | - /27.916 | - /65.613 | - 1 - | - 1 - | $1-$ |
| Subtotal: Procurement, All Modification Items | - /209.519 | - /27.916 | - /65.613 | - $/$ | - / - | - 1. |
| Support (All Modification Items) |  |  |  |  |  |  |
| GROUP A: TOTAL NONRECURRING | - 172.808 | - 18.583 | - /15.717 | - 124.545 | - 1- | - 124.545 |
| GROUP B: TOTAL NONRECURRING | - /108.941 | - 121.856 | - 155.598 | - 159.249 | - 1- | - 159.249 |
| PMA - Other Gov't Costs | - 11.908 | - 12.687 | - 12.920 | - 14.920 | - 1- | - 14.920 |
| SUPPORT-EQUIP | - 119.892 | - 111.084 | - 119.008 | - 137.103 | -1- | - 137.103 |
| SIM/TRAINER | 1/10.994 | - 113.372 | - /10.827 | 1/39.871 | - 1- | 1/39.871 |
| Subtotal: Support | 1/214.543 | - 157.582 | - /104.070 | 1/165.688 | - 1- | 1/165.688 |
| Installation |  |  |  |  |  |  |
| Modification Item 1 of 1: COMPASS CALL MODS | 4/40.545 | 0/25.041 | 1/0.000 | 1/29.410 | - 1 - | 1/29.410 |
| Subtotal: Installation | 4/40.545 | - /25.041 | 1/ - | 1/29.410 | - 1 - | 1/29.410 |
| Total |  |  |  |  |  |  |
| Total Cost (Procurement + Support + Installation) | 464.607 | 110.539 | 169.683 | 195.098 | 0.000 | 195.098 |

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Exhibit P-40, Budget Line Item Justification: PB 2022 Air Force
Date: May 2021

## P-1 Line Item Number / Title:

CFINOO / combat flight inspection - CFIN

Appropriation / Budget Activity / Budget Sub Activity:
3010F: Aircraft Procurement, Air Force / BA 05: Modification of Inservice Aircraft / BSA 5: Other Aircraft

| ID Code (A=Service Ready, B=Not Service Ready) |  |  | Program Ele | ents for Cod | B Items: | 314F |  | Other Relat | Program | ments: 040 | 14F |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Line Item MDAP/MAIS Code: N/A |  |  |  |  |  |  |  |  |  |  |  |  |
| Resource Summary | Prior <br> Years | FY 2020 | FY 2021 | FY 2022 Base | $\begin{gathered} \text { FY } 2022 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \text { FY } 2022 \\ \text { Total } \end{gathered}$ | FY 2023 | FY 2024 | FY 2025 | FY 2026 | To Complete | Total |
| Procurement Quantity (Units in Each) | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Cost (\$ in Millions) | 0.994 | 0.508 | 0.000 | 0.000 | - | 0.000 | - | - | - | - | - | - |
| Less PY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Net Procurement (P-1) (\$ in Millions) | 0.994 | 0.508 | 0.000 | 0.000 | - | 0.000 | - | - | - | - | - | - |
| Plus CY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Total Obligation Authority (\$ in Millions) | 0.994 | 0.508 | 0.000 | 0.000 | - | 0.000 | - | - | - | - | - | - |
| (The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.) |  |  |  |  |  |  |  |  |  |  |  |  |
| Initial Spares (\$ in Millions) | - | 倍 | - | - | - | - | - | - | - | - | - | - |
| Flyaway Unit Cost (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Unit Cost (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |

## Description:

Funds are required to procure and sustain unique military equipment on three FAA owned, Air Force operated, Canadair Challenger flight inspection aircraft to provide the DoD Combat Flight Inspection (CFIN) capability. CFIN is an Air Force combat capability to validate and certify airfield instrument approach and landing equipment, and associated instrument procedures, are safe and meet specifications before allweather combat flight operations can begin. The CFIN capability is provided by three FAA Canadair Challenger aircraft modified with unique military equipment required for the CFIN mission, including secure anti-jam radios, military Identification Friend or Foe Mode IV and V transponders, and survivability equipment.

This funding may include emerging modification requirements to support PMA, A\&AS, equipment and other government costs.
This requirement supports performance of a full financial audit as required by title 10 U.S.C. Chapter 9A, Sec 240-D.

## Justification:

No FY 2022 funding requested.

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Exhibit P-40, Budget Line Item Justification: PB 2022 Air Force
Date: May 2021
Appropriation / Budget Activity / Budget Sub Activity:
3010F: Aircraft Procurement, Air Force / BA 05: Modification of Inservice Aircraft /
BSA 5: Other Aircraft

## P-1 Line Item Number / Title:

DARP01 / RC-135

| ID Code (A=Service Ready, B=Not Service Ready): | Program Elements for Code B Items: 0305207F | Other Related Program Elements: 0305207F |
| :--- | :--- | :--- | :--- |

## Line Item MDAP/MAIS Code: N/A

| Resource Summary | Prior <br> Years | FY 2020 | FY 2021 | $\begin{gathered} \text { FY } 2022 \\ \text { Base } \end{gathered}$ | $\begin{gathered} \text { FY } 2022 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \text { FY } 2022 \\ \text { Total } \end{gathered}$ | FY 2023 | FY 2024 | FY 2025 | FY 2026 | To Complete | Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Procurement Quantity (Units in Each) | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Cost (\$ in Millions) | 982.044 | 227.673 | 191.332 | 207.596 | - | 207.596 | - | - | - | - | - | - |
| Less PY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Net Procurement (P-1) (\$ in Millions) | 982.044 | 227.673 | 191.332 | 207.596 | - | 207.596 | - | - | - | - | - | - |
| Plus CY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Total Obligation Authority (\$ in Millions) | 982.044 | 227.673 | 191.332 | 207.596 | - | 207.596 | - | - | - | - | - | - |
| (The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.) |  |  |  |  |  |  |  |  |  |  |  |  |
| Initial Spares (\$ in Millions) |  | 83.572 | 51.282 | 51.305 | - | 51.305 | - | - | - | - | - | - |
| Flyaway Unit Cost (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Unit Cost (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |

## Description:



 enhancements for the COBRA BALL and COMBAT SENT weapon systems.



 long-standing relationships with the RC-135 industry partners.

 as a benefit of cost-to-risk ratio) over the 25-year assessment period.

Funding for this exhibit is contained in PE 0305207F.

Exhibit P-40, Budget Line Item Justification: PB 2022 Air Force
Appropriation / Budget Activity / Budget Sub Activity:
3010F: Aircraft Procurement, Air Force / BA 05: Modification of Inservice Aircraft /
BSA 5: Other Aircraft

## P-1 Line Item Number / Title:

## DARP01 / RC-135

BSA 5: Other Aircraft

| ID Code (A=Service Ready, B=Not Service Ready): |  | Program Elements for Code B Items: 0305207F |  |  |  |  | Other Related Program Elements: 0305207F |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Line Item MDAP/MAIS Code: N/A |  |  |  |  |  |  |  |  |  |  |
| Exhibits Schedule |  |  |  |  | Prior Years | FY 2020 | FY 2021 | FY 2022 Base | FY 2022 OCO | FY 2022 Total |
| Exhibit Type | Title* | Subexhibits | $\begin{array}{\|l\|} \hline \text { ID } \\ \text { CD } \end{array}$ | MDAP/ MAIS Code | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) |
| P-40a*** | 4266 / CONSTANT PHOENIX (Capability Improvement) |  |  |  | - 1208.290 | - 17.937 | - 1 | - 1 | - 1 - | - 1 |
| P-3a | 2504 / COBRA BALL (Capability Improvement) |  | A |  | - 126.204 | - / 12.177 | - /12.414 | - / 12.656 | - 10.000 | - /12.656 |
| P-3a | 4263 / RIVET JOINT (Capability Improvement) |  | A |  | - 1700.594 | - /197.574 | - /168.952 | - /184.749 | - 10.000 | - / 184.749 |
| P-3a | 4265 / COMBAT SENT (Capability Improvement) |  | A |  | - / 46.956 | - 19.985 | - 19.966 | - / 10.191 | - 10.000 | - /10.191 |
| P-40 | Total Gross/Weapon System Cost |  |  |  | - / 982.044 | - 1227.673 | - /191.332 | - 1207.596 | - 1 | - 1207.596 |

*** Although this is an Exhibit P-40a item, the actual exhibit is not included since all of the required information for this item is already being shown here.
*Title represents 1) the Number / Title for Items; 2) the Number / Title [DODIC] for Ammunition; and/or 3) the Number / Title (Modification Type) for Modifications
Note: Totals in this Exhibit P-40 set may not be exact or sum exactly due to rounding.

## Justification:






 mission requirements of these weapons systems. Due to higher USAF priorities, \$13.842M of FY21 procurement funding was re-phased into FY22 and FY23 under RIVET JOINT.



Exhibit P-3a, Individual Modification: PB 2022 Air Force

## Appropriation / Budget Activity / Budget Sub Activity:

 3010F/05/5
## Date: May 2021

## Modification Number / Title:

2504 / COBRA BALL

ID Code (A=Service Ready, B=Not Service Ready) : A

## P-1 Line Item Number / Title: DARP01 / RC-135

| Resource Summary | Prior Years | FY 2020 | FY 2021 | FY 2022 Base | FY 2022 OCO | FY 2022 Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Procurement Quantity (Units in Each) | - | - | - | - | - | - |
| Gross/Weapon System Cost (\$ in Millions) | 26.204 | 12.177 | 12.414 | 12.656 | 0.000 | 12.656 |
| Less PY Advance Procurement (\$ in Millions) | - | - | - | - | - | - |
| Net Procurement (P-1) (\$ in Millions) | 26.204 | 12.177 | 12.414 | 12.656 | 0.000 | 12.656 |
| Plus CY Advance Procurement (\$ in Millions) | - | - | - | - | - | - |
| Total Obligation Authority (\$ in Millions) | 26.204 | 12.177 | 12.414 | 12.656 | 0.000 | 12.656 |
| (The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.) |  |  |  |  |  |  |
| Initial Spares (\$ in Millions) | - | - | - | - | - | - |
| Gross/Weapon System Unit Cost (\$ in Millions) | - | - | - | - | - | - |

## Description:


 (CCMD) and Intelligence Community (IC) requirements.

 equipment, and processing, exploitation and dissemination tools.



 Reconnaissance (ISR) arena over the last 50 years.

 RIVET JOINT Baseline 12 communications intelligence (COMINT) suite.

Funding for this exhibit contained in PE 0305207F.
Milestone/Development Status

 These initiatives formed the basis for the RC-135S COBRA BALL fleet modification strategy.

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Exhibit P-3a, Individual Modification: PB 2022 Air Force

## Appropriation / Budget Activity / Budget Sub Activity:

 3010F/05/5
## P-1 Line Item Number / Title: DARP01 / RC-135

## Date: May 2021

## Modification Number / Title:

4263 / RIVET JOINT

ID Code (A=Serice Ready, $B=$ Not Service Ready) : A
MDAP/MAIS Code:

| Resource Summary | Prior Years | FY 2020 | FY 2021 | FY 2022 Base | FY 2022 OCO | FY 2022 Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Procurement Quantity (Units in Each) | - | - | - | - | - | - |
| Gross/Weapon System Cost (\$ in Millions) | 700.594 | 197.574 | 168.952 | 184.749 | 0.000 | 184.749 |
| Less PY Advance Procurement (\$ in Millions) | - | - | - | - | - | - |
| Net Procurement (P-1) (\$ in Millions) | 700.594 | 197.574 | 168.952 | 184.749 | 0.000 | 184.749 |
| Plus CY Advance Procurement (\$ in Millions) | - | - | - | - | - | - |
| Total Obligation Authority (\$ in Millions) | 700.594 | 197.574 | 168.952 | 184.749 | 0.000 | 184.749 |
| (The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.) |  |  |  |  |  |  |
| Initial Spares (\$ in Millions) | 95.135 | 83.572 | 51.282 | 51.305 | - | 51.305 |
| Gross/Weapon System Unit Cost (\$ in Millions) | - | - | - | - | - | - |

## Description:



 requirements. Due to higher Air Force priorities $\$ 13.842 \mathrm{M}$ of FY21 procurement funding was re-phased into FY22 and FY23.

 equipment, and processing, exploitation and dissemination tools.


 the next year. This acquisition strategy has been successful in maintaining critical combat capability in the Intelligence, Surveillance and Reconnaissance (ISR) arena over the last 50 years.


 testing.

Funding for this exhibit contained in PE 0305207F.
Milestone/Development Status

 W RIVET JOINT fleet modification strategy.

## UNCLASSIFIED

| Exhibit P-3a, Individual Modification: PB 2022 Air Force |  |  |  |  | Date: May 2021 |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5 |  | P-1 Line Item Number / Title: DARP01 / RC-135 |  |  | Modification Number / Title: 4263 / RIVET JOINT |  |
| ID Code (A=Service Ready, B=Not Service Ready) : A |  |  | MDAP/MAIS Code: |  |  |  |
| Models of Systems Affected: RC-135V, RC-135W, TC-135W |  | Modification Type: Capability Improvement |  | Related RDT\&E PEs: 0305207F |  |  |
|  | Prior Years | FY 2020 | FY 2021 | FY 2022 Base | FY 2022 OCO | FY 2022 Total |
| Financial Plan | $\begin{gathered} \text { Qty (Each) I } \\ \text { Total Cost (\$ M) } \\ \hline \end{gathered}$ | $\begin{gathered} \text { Qty (Each) I } \\ \text { Total Cost (\$M) } \\ \hline \end{gathered}$ | $\begin{gathered} \text { Qty (Each) I } \\ \text { Total Cost }(\$ M) \end{gathered}$ | $\begin{gathered} \text { Qty (Each) I } \\ \text { Total Cost }(\$ M) \\ \hline \end{gathered}$ | $\begin{gathered} \text { Qty (Each) I } \\ \text { Total Cost }(\$ M) \\ \hline \end{gathered}$ | $\begin{gathered} \text { Qty (Each) I } \\ \text { Total Cost (\$ M) } \\ \hline \end{gathered}$ |
| Procurement |  |  |  |  |  |  |
| Modification Item 1 of 1: Baseline Upgrade (2) |  |  |  |  |  |  |
| A Kits |  |  |  |  |  |  |
| Recurring |  |  |  |  |  |  |
| Baseline Upgrade:INSTALL KITS Group A (Active) | 16/455.040 | 4/135.622 | 4/105.958 | 4/120.355 | 1 - | 4/120.355 |
| Subtotal: Recurring | - /455.040 | - /135.622 | - /105.958 | - /120.355 | - 1- | - /120.355 |
| B Kits |  |  |  |  |  |  |
| Recurring |  |  |  |  |  |  |
| Baseline Upgrade:EQUIPMENT Group B (Active) | 16/50.695 | 4/13.164 | 4/13.401 | 4/13.743 | - 1- | 4/13.743 |
| Subtotal: Recurring | - /50.695 | - /13.164 | - /13.401 | - /13.743 | / - | - /13.743 |
| Subtotal: Baseline Upgrade (2) | - /505.735 | - /148.786 | - /119.359 | - /134.098 | $1-$ | - /134.098 |
| Subtotal: Procurement, All Modification Items | - / 505.735 | - /148.786 | - /119.359 | - /134.098 | - 1 | - /134.098 |
| Support (All Modification Items) |  |  |  |  |  |  |
| PMA - Other Gov't Costs | - 15.262 | - 11.300 | - 11.313 | - 11.468 | 1 - | - 11.468 |
| Subtotal: Support | - 15.262 | - 11.300 | - 11.313 | - 11.468 | - 1- | - 11.468 |
| Installation |  |  |  |  |  |  |
| Modification Item 1 of 1: Baseline Upgrade (2) | 16/189.597 | 4/47.488 | 4/48.280 | 4/49.183 | $1-$ | 4/49.183 |
| Subtotal: Installation | 16/189.597 | 4/47.488 | 4/48.280 | 4/49.183 | - 1- | 4/49.183 |
| Total |  |  |  |  |  |  |
| Total Cost (Procurement + Support + Installation) | 700.594 | 197.574 | 168.952 | 184.749 | 0.000 | 184.749 |

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Exhibit P-3a, Individual Modification: PB 2022 Air Force

## Appropriation / Budget Activity / Budget Sub Activity:

 3010F/05/5
## Date: May 2021

## Modification Number / Title:

4265 / COMBAT SENT

ID Code (A=Serice Ready, $B=$ Not Service Ready) : A

## P-1 Line Item Number / Title: DARP01 / RC-135



## Description:


 current stated and emerging Combatant Command (CCMD) and Intelligence Community (IC) requirements.

 equipment, and processing, exploitation and dissemination tools.


 the next year. This acquisition strategy has been successful in maintaining critical combat capability in the ISR arena over the last 50 years.

 the RIVET JOINT Baseline 13 Communication Intelligence (COMINT) suite, and enhancing capabilities in dense signal environments.

Funding for this exhibit contained in PE 0305207F.
Milestone/Development Status

 RC-135U COMBAT SENT fleet modification strategy.

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| Exhibit P-3a, Individual Modification: PB 2022 Air Force |  |  |  |  | Date: May 2021 |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5 |  | P-1 Line Item Number / Title: DARP01 / RC-135 |  |  | Modification Number / Title: 4265 / COMBAT SENT |  |
| ID Code (A=Service Ready, B=Not Service Ready) : A |  |  | MDAP/MAIS Code: |  |  |  |
| Models of Systems Affected: RC-135U | Modification Type: Capability Improvement |  |  | Related RDT\&E PEs: 0305207F |  |  |
|  | Prior Years | FY 2020 | FY 2021 | FY 2022 Base | FY 2022 OCO | FY 2022 Total |
| Financial Plan | $\begin{gathered} \text { Qty (Each) I } \\ \text { Total Cost (\$ M) } \\ \hline \end{gathered}$ | $\begin{gathered} \text { Qty (Each) I } \\ \text { Total Cost }(\$ M) \\ \hline \end{gathered}$ | $\begin{gathered} \text { Qty (Each) I } \\ \text { Total Cost }(\$ M) \end{gathered}$ | $\begin{gathered} \text { Qty (Each) I } \\ \text { Total Cost (\$ M) } \\ \hline \end{gathered}$ | $\begin{gathered} \text { Qty (Each) I } \\ \text { Total Cost }(\$ M) \\ \hline \end{gathered}$ | $\begin{gathered} \text { Qty (Each) I } \\ \text { Total Cost }(\$ M) \\ \hline \end{gathered}$ |
| Procurement |  |  |  |  |  |  |
| Modification Item 1 of 1: Baseline Upgrade (3) |  |  |  |  |  |  |
| A Kits |  |  |  |  |  |  |
| Recurring |  |  |  |  |  |  |
| Baseline Upgrade:INSTALL KITS Group A (Active) | 4/21.631 | 1/2.081 | 1/2.118 | 1/2.156 | -1- | 1/2.156 |
| Subtotal: Recurring | - /21.631 | - /2.081 | - 12.118 | - /2.156 | - 1- | - 12.156 |
| B Kits |  |  |  |  |  |  |
| Recurring |  |  |  |  |  |  |
| Baseline Upgrade:EQUIPMENT Group B (Active) | 4/4.250 | 1/1.121 | 1/1.141 | 1/1.161 | - 1- | 1/1.161 |
| Subtotal: Recurring | - 14.250 | - 11.121 | - /1.141 | - /1.161 | -1- | - /1.161 |
| Subtotal: Baseline Upgrade (3) | - /25.881 | - 13.202 | - 13.259 | - /3.317 | - 1 - | - /3.317 |
| Subtotal: Procurement, All Modification Items | - /25.881 | - 13.202 | - 13.259 | - /3.317 | - 1- | - 13.317 |
| Installation |  |  |  |  |  |  |
| Modification Item 1 of 1: Baseline Upgrade (3) | $4 / 21.075$ | 1/6.783 | 1/6.707 | $1 / 6.874$ | - 1 - | 1/6.874 |
| Subtotal: Installation | 4/21.075 | 1/6.783 | 1/6.707 | 1/6.874 | -1- | 1/6.874 |
| Total |  |  |  |  |  |  |
| Total Cost (Procurement + Support + Installation) | 46.956 | 9.985 | 9.966 | 10.191 | 0.000 | 10.191 |

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| Exhibit P-40, Budget Line Item Justification: PB 2022 Air Force |  |  |  |  |  |  |  |  | Date: May 2021 |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: <br> 3010F: Aircraft Procurement, Air Force / BA 05: Modification of Inservice Aircraft / <br> BSA 5: Other Aircraft |  |  |  |  |  | P-1 Line Item Number / Title:E00300 / E-3 |  |  |  |  |  |  |
| ID Code (A=Service Ready, B=Not Service Ready): |  |  | Program Elements for Code B Items: 0207417F |  |  |  |  | Other Related Program Elements: 0207417F |  |  |  |  |
| Line Item MDAP/MAIS Code: N/A |  |  |  |  |  |  |  |  |  |  |  |  |
| Resource Summary | Prior <br> Years | FY 2020 | FY 2021 | FY 2022 Base | $\begin{gathered} \text { FY } 2022 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \text { FY } 2022 \\ \text { Total } \end{gathered}$ | FY 2023 | FY 2024 | FY 2025 | FY 2026 | To Complete | Total |
| Procurement Quantity (Units in Each) | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Cost (\$ in Millions) | 999.819 | 102.092 | 118.068 | 109.855 | - | 109.855 | - | - | - | - | - | - |
| Less PY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Net Procurement (P-1) (\$ in Millions) | 999.819 | 102.092 | 118.068 | 109.855 | - | 109.855 | - | - | - | - | - | - |
| Plus CY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Total Obligation Authority (\$ in Millions) | 999.819 | 102.092 | 118.068 | 109.855 | - | 109.855 | - | - | - | - | - | - |
| (The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.) |  |  |  |  |  |  |  |  |  |  |  |  |
| Initial Spares (\$ in Millions) | - | 19.975 | 13.835 | 1.671 | - | 1.671 | - | - | - | - | - | - |
| Flyaway Unit Cost (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Unit Cost (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |

## Description:

The four-engine E-3 is a modified Boeing 707 airframe which carries airborne radar and provides all-altitude air surveillance, threat warning, and control of theater air forces. Totals include funding for Airborne Warning and Control System (AWACS) Upgrades. This line item funds modifications and may be used to address Diminishing Manufacturing Sources (DMS) issues for the overall E-3 weapon system to include aircraft, simulators, and training devices.

Life of Type (LoT) buy to procure parts for retrofit of Production jets.

Exhibit P-40, Budget Line Item Justification: PB 2022 Air Force
Date: May 2021
Appropriation / Budget Activity / Budget Sub Activity:
3010F: Aircraft Procurement, Air Force / BA 05: Modification of Inservice Aircraft /
BSA 5: Other Aircraft

## P-1 Line Item Number / Title: <br> E00300 / E-3

BSA 5: Other Aircraft

| ID Code (A=Service Ready, B=Not Service Ready): | Program Elements for Code B Items: 0207417F | Other Related Program Elements: 0207417F |
| :--- | :--- | :--- |
| Line |  |  |

Line Item MDAP/MAIS Code: N/A

| Exhibits Schedule |  |  |  |  | Prior Years | FY 2020 | FY 2021 | FY 2022 Base | FY 2022 OCO | FY 2022 Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Exhibit Type | Title* | Subexhibits | $\begin{array}{\|l\|l\|} \hline \text { ID } \\ \text { Co } \end{array}$ | MDAP/ MAIS Code | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) |
| P-40a*** | 50001T / BLOCK 40/45 UPGRADE (Capability Improvement) |  |  |  | - $/ 658.246$ | - $/$ - | - 1 - | - 10.000 | - 1 - | - 10.000 |
| P-40a*** | 50002T / AWACS Mode 5 Acceleration (Capability Improvement) |  |  |  | - 1 - | / 1.907 | - 10.823 | - 11.132 | - 1 - | - 11.132 |
| P-40a*** | 7225 / NEXT GENERATION IDENTIFICATION FRIEND OR FOE (IFF) (Capability Improvement) |  |  |  | - / 56.833 | 1 | 1 | 1 | -1 | - 1 |
| P-40a*** | 8662 I AETC MTD UPGRADES-FIELD TRAINING DETACHMENTS (Capability Improvement) |  |  |  | - 18.406 | - 10.719 | - 10.700 | - 10.700 | 1 | - 10.700 |
| P-40a*** | 9707 / RM\&A Mod (Reliability \& Maintainability) |  |  |  | 122.294 | 10.328 | - 10.320 | - 1 - | - 1 - | - |
| P-40a*** | 9716 / VERTICAL STABILIZER AND RUDDER (Reliability \& Maintainability) |  |  |  | - $/ 1.816$ | 1 | - 1 | 1 | -1 | -1 |
| P-40a*** | 99999XA / LOW COST MOD - AIRFRAME (Reliability \& Maintainability) |  |  |  | - 14.448 | - $/ 1.999$ | - 11.999 | - 10.999 | - 1 - | - 10.999 |
| P-40a*** | 99999XB / LOW COST MOD - AVIONICS \& MISSION SYSTEMS (Reliability \& Maintainability) |  |  |  | - 14.448 | - / 1.999 | - $/ 1.999$ | - 10.999 | - 1 | - 10.999 |
| P-40a*** | 99999XC / Low Cost Mod - Communications (Reliability \& Maintainability) |  |  |  | -1 | 1 | - $/ 1.999$ | - 10.999 | 1 | - 10.999 |
| P-40a*** | 99999XD / Low Cost Mod - Human Systems (Reliability \& Maintainability) |  |  |  | - 1 | - 1 - | - $/ 1.999$ | - 10.999 | - 1 | - 10.999 |
| P-3a | 50002 / Communication Networking Upgrade (CNU) (Capability Improvement) |  | B |  | - 10.000 | - 12.879 | - 127.589 | - / 24.395 | - 10.000 | - / 24.395 |
| P-3a | 9709 / E-3 DRAGON (Capability Improvement) |  | B |  | - /155.435 | - 168.290 | - $/ 69.893$ | - /48.129 | - 10.000 | 148.129 |
| P-3a | 9718 /IP-enabled Capability (IPEC) (Capability Improvement) |  | B |  | - 187.893 | - $/ 23.971$ | - / 10.747 | - / 13.612 | - 10.000 | /13.612 |
| P-3a | 9721 / AWACS Communications Integration Program (ACIP) (Capability Improvement) |  | B |  | - 1 | - 10.000 | - 10.000 | - / 17.891 | - 10.000 | / 17.891 |
| P-40 | Total Gross/Weapon System Cost |  |  |  | - 1999.819 | - / 102.092 | - 1118.068 | - /109.855 | - 1 | - / 109.855 |

*** Although this is an Exhibit P-40a item, the actual exhibit is not included since all of the required information for this item is already being shown here.
*Title represents 1) the Number / Title for Items; 2) the Number / Title [DODIC] for Ammunition; and/or 3) the Number / Title (Modification Type) for Modifications
Note: Totals in this Exhibit P-40 set may not be exact or sum exactly due to rounding.

## Justification:

This program, P-3A Mod 9721, AWACS Communications Integration Program (ACIP), is a new start.
 long as needed and continues to address DMS and mandates.

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| Exhibit P-3a, Individual Modification: PB 2022 Air Force |  |  |  |  | Date: May 2021 |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5 | P-1 Line Item Number / Title: E00300 / E-3 |  |  |  | Modification Number / Title: 50002 I Communication Networking Upgrade (CNU) |  |
| ID Code (A=Service Ready, $\mathrm{B}=$ Not Service Ready) : B | MDAP/MAIS Code: |  |  |  |  |  |
| Resource Summary | Prior Years | FY 2020 | FY 2021 | FY 2022 Base | FY 2022 OCO | FY 2022 Total |
| Procurement Quantity (Units in Each) | - | - | - | - | - | - |
| Gross/Weapon System Cost (\$ in Millions) | 0.000 | 2.879 | 27.589 | 24.395 | 0.000 | 24.395 |
| Less PY Advance Procurement (\$ in Millions) | - | - | - | - | - | - |
| Net Procurement (P-1) (\$ in Millions) | 0.000 | 2.879 | 27.589 | 24.395 | 0.000 | 24.395 |
| Plus CY Advance Procurement (\$ in Millions) | - | - | - | - | - | - |
| Total Obligation Authority (\$ in Millions) | 0.000 | 2.879 | 27.589 | 24.395 | 0.000 | 24.395 |
| (The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.) |  |  |  |  |  |  |
| Initial Spares (\$ in Millions) | - | 6.222 | - | - | - | - |
| Gross/Weapon System Unit Cost (\$ in Millions) | - | - | - | - | - | - |

## Description:




 (Link 16 Advanced Capabilities) will provide Link 16 Advanced Communications Throughput via Ethernet Connection. This modification program has related RDT\&E funding in PE 0207417F.

Milestone/Development Status
Development contract awarded 3Q FY19.

| Exhibit P-3a, Individual Modification: PB 2022 Air Force |  |  |  |  | Date: May 2021 |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5 |  | P-1 Line Item Number / Title: E00300 / E-3 |  |  | Modification Number / Title: 50002 / Communication Networking Upgrade (CNU) |  |
| ID Code (A=Service Ready, B=Not Service Ready) : B |  |  | MDAP/MAIS Code: |  |  |  |
| Models of Systems Affected: E-3 | Modification Type: Capability Improvement |  |  | Related RDT\&E PEs: 0207417F |  |  |
|  | Prior Years | FY 2020 | FY 2021 | FY 2022 Base | FY 2022 OCO | FY 2022 Total |
| Financial Plan | Qty (Each) I Total Cost (\$ M) | Qty (Each) I Total Cost (\$ M) | Qty (Each) I Total Cost (\$ M) | Qty (Each) I Total Cost (\$ M) | Qty (Each) I Total Cost (\$ M) | Qty (Each) I Total Cost (\$ M) |
| RDT\&E PE \# |  |  |  |  |  |  |
| 0207417F | - 144.877 | - /16.252 | - 129.290 | - 122.096 | - 1- | - 122.096 |
| Procurement |  |  |  |  |  |  |
| Modification Item 1 of 3: MVP1 (Crypto) |  |  |  |  |  |  |
| A Kits |  |  |  |  |  |  |
| Recurring |  |  |  |  |  |  |
| MVP1 (Crypto):INSTALL KITS Group A (Active) | - 1- | $4 / 2.492$ | 19/12.167 | $7 / 2.782$ | - 1- | 7/2.782 |
| Subtotal: Recurring | / - | - /2.492 | - /12.167 | - 12.782 | - 1- | - 12.782 |
| Subtotal: MVP1 (Crypto) | - / - | - /2.492 | - /12.167 | - /2.782 | - 1 - | - $/ 2.782$ |
| Modification Item 2 of 3: MVP2 (HPAs) |  |  |  |  |  |  |
| A Kits |  |  |  |  |  |  |
| Recurring |  |  |  |  |  |  |
| MVP2 (HPAs):INSTALL KITS Group A (Active) | - 1- | - 1- | - 1- | $25 / 7.161$ | - 1- | 25/7.161 |
| Subtotal: Recurring | 1 | - 1 | - 1 | - /7.161 | - 1 | - /7.161 |
| Subtotal: MVP2 (HPAs) | - / - | - 1 - | - 1 | - /7.161 | - / - | - /7.161 |
| Modification Item 3 of 3: MVP3 (Link 16 Advanced Capabilities) |  |  |  |  |  |  |
| A Kits |  |  |  |  |  |  |
| Recurring |  |  |  |  |  |  |
| MVP3 (Link 16 Advanced Capabilities):INSTALL KITS Group A (Active) | - 1 - | - 1- | 20/2.181 | - 1- | - 1- | - 1 - |
| Subtotal: Recurring | - / - | - / - | - /2.181 | - / - | - / - | - / - |
| Subtotal: MVP3 (Link 16 Advanced Capabilities) | 1- | 1 - | - /2.181 | - 1 - | - 1- | - 1- |
| Subtotal: Procurement, All Modification Items | - / - | - /2.492 | - /14.348 | - 19.943 | - / - | - 19.943 |
| Support (All Modification Items) |  |  |  |  |  |  |
| GROUP A: TOTAL NONRECURRING | - 1 - | - 10.068 | - 18.357 | - 19.923 | - 1- | - 19.923 |
| Change Orders | - 1 - | - 10.050 | - 10.644 | - 10.623 | - 1 - | - 10.623 |
| ICS-Labor | - 1- | - 1- | - 1 - | - 11.012 | - 1 - | - 11.012 |
| PMA - Contractor Services | - 1- | - 10.269 | - 14.240 | - 12.894 | - 1 - | - 12.894 |
| Subtotal: Support | - / - | - 10.387 | - /13.241 | - /14.452 | - / - | - /14.452 |
| Installation |  |  |  |  |  |  |
| Subtotal: Installation | - / - | - / - | - / - | - / - | - / - | - / - |

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| Exhibit P-3a, Individual Modification: PB 2022 Air Force |  |  |  |  | Date: May 2021 |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5 |  | P-1 Line Item Number / Title: E00300 / E-3 |  |  | Modification Number / Title: 50002 / Communication Networking Upgrade (CNU) |  |
| ID Code (A=Service Ready, B=Not Service Ready) : B |  | MDAP/MAIS Code: |  |  |  |  |
| Models of Systems Affected: E-3 | Modification Type: Capability Improvement |  |  | Related RDT\&E PEs: 0207417F |  |  |
|  | Prior Years | FY 2020 | FY 2021 | FY 2022 Base | FY 2022 OCO | FY 2022 Tota |
| Financial Plan | $\begin{gathered} \text { Qty (Each) I } \\ \text { Total Cost (\$M) } \end{gathered}$ | $\begin{gathered} \text { Qty (Each) I } \\ \text { Total Cost (\$M) } \\ \hline \end{gathered}$ | $\begin{gathered} \text { Qty (Each) I } \\ \text { Total Cost (\$M) } \end{gathered}$ | $\begin{gathered} \text { Qty (Each) I } \\ \text { Total Cost }(\$ M) \\ \hline \end{gathered}$ | Qty (Each) I Total Cost (\$ M) | Qty (Each) I Total Cost (\$ M) |
| Total |  |  |  |  |  |  |
| Total Cost (Procurement + Support + Installation) |  |  |  |  |  |  |

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Exhibit P-3a, Individual Modification: PB 2022 Air Force Appropriation / Budget Activity / Budget Sub Activity: 3010F/05/5
ID Code ( $A=$ Serice Ready, $B=$ Not Service Ready : B

| MDAP/MAIS Code: |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Resource Summary | Prior Years | FY 2020 | FY 2021 | FY 2022 Base | FY 2022 OCO | FY 2022 Total |
| Procurement Quantity (Units in Each) | - | - | - | - | - | - |
| Gross/Weapon System Cost (\$ in Millions) | 155.435 | 68.290 | 69.893 | 48.129 | 0.000 | 48.129 |
| Less PY Advance Procurement (\$ in Millions) | - | - | - | - | - | - |
| Net Procurement (P-1) (\$ in Millions) | 155.435 | 68.290 | 69.893 | 48.129 | 0.000 | 48.129 |
| Plus CY Advance Procurement (\$ in Millions) | - | - | - | - | - | - |
| Total Obligation Authority (\$ in Millions) | 155.435 | 68.290 | 69.893 | 48.129 | 0.000 | 48.129 |
| (The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.) |  |  |  |  |  |  |
| Initial Spares (\$ in Millions) | 23.479 | 10.448 | 10.631 | - | - | - |
| Gross/Weapon System Unit Cost (\$ in Millions) | - | - | - | - | - | - |

## Description:











 a USAF only effort.

Milestone/Development Status

 October 2021

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Exhibit P-3a, Individual Modification: PB 2022 Air Force Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5

## P-1 Line Item Number / Title:

 E00300 / E-3Date: May 2021
Modification Number / Title:
9709 / E-3 DRAGON

ID Code (A=Service Ready, B=Not Service Ready) : B
MDAP/MAIS Code:

| Models of Systems Affected: E-3B, E-3C | Modification Type: Capability Improvement |  |  | Related RDT\&E PEs: 0207417F |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Prior Years | FY 2020 | FY 2021 | FY 2022 Base | FY 2022 OCO | FY 2022 Total |
| Financial Plan | $\begin{gathered} \text { Qty (Each) I } \\ \text { Total Cost (\$M) } \\ \hline \end{gathered}$ | $\begin{gathered} \text { Qty (Each) I } \\ \text { Total Cost }(\$ M) \\ \hline \end{gathered}$ | $\begin{gathered} \text { Qty (Each) I } \\ \text { Total Cost (\$ M) } \end{gathered}$ | $\begin{gathered} \text { Qty (Each) I } \\ \text { Total Cost (\$ M) } \\ \hline \end{gathered}$ | $\begin{gathered} \text { Qty (Each) I } \\ \text { Total Cost (\$M) } \\ \hline \end{gathered}$ | $\begin{gathered} \text { Qty (Each) I } \\ \text { Total Cost (\$M) } \\ \hline \end{gathered}$ |
| RDT\&E PE \# |  |  |  |  |  |  |
| 0207417F | - 1391.385 | - 11.362 | - 11.351 | - 1 - | - 1 - | 1 - |
| Procurement |  |  |  |  |  |  |
| Modification Item 1 of 1: DRAGON |  |  |  |  |  |  |
| A Kits |  |  |  |  |  |  |
| Recurring |  |  |  |  |  |  |
| DRAGON:INSTALL KITS Group A (Active) | 5/17.118 | 4/11.351 | 4/7.944 | 5/9.466 | - 1- | 5/9.466 |
| Subtotal: Recurring | - /17.118 | - /11.351 | - 17.944 | - 19.466 | - 1- | - 19.466 |
| B Kits |  |  |  |  |  |  |
| Recurring |  |  |  |  |  |  |
| DRAGON:EQUIPMENT Group B (Active) | 5/39.070 | 4/13.335 | 4/15.635 | 5/13.740 | - 1- | 5/13.740 |
| Subtotal: Recurring | - 139.070 | - /13.335 | - /15.635 | - /13.740 | - 1- | - 113.740 |
| Subtotal: DRAGON | - /56.188 | - /24.686 | - /23.579 | - /23.206 | - / - | - 123.206 |
| Subtotal: Procurement, All Modification Items | - /56.188 | - /24.686 | - /23.579 | - /23.206 | - 1- | - 123.206 |
| Support (All Modification Items) |  |  |  |  |  |  |
| GROUP A: TOTAL NONRECURRING | - 133.147 | - 15.161 | - 10.506 | - 10.312 | - 1 - | - 10.312 |
| GROUP B: TOTAL NONRECURRING | - 120.452 | - 114.302 | - 17.128 | - 13.234 | - 1- | - 13.234 |
| Change Orders | - 126.003 | - 18.058 | - 19.861 | - 15.626 | -1. | - 15.626 |
| SIM/TRAINER | 0/0.100 | 0/0.200 | 1/15.514 | - 12.100 | -1- | - 12.100 |
| ICS-Labor | - 10.205 | - 10.537 | - 12.716 | - 13.732 | - 1- | - 13.732 |
| PMA - Contractor Services | - 15.422 | - 12.022 | - 12.603 | - 12.209 | -1- | - 12.209 |
| OTHER GOVT | - 12.928 | - 10.422 | - 10.436 | - 10.449 | -1. | - 10.449 |
| PMA - Other Gov't Costs | - 13.490 | - 17.731 | - 14.137 | - 11.470 | - 1 | - 11.470 |
| Subtotal: Support | 0/91.747 | 0/38.433 | 1/42.901 | - /19.132 | - 1 - | - /19.132 |
| Installation |  |  |  |  |  |  |
| Modification Item 1 of 1: DRAGON | $1 / 7.500$ | 3/5.171 | 2/3.413 | 4/5.791 | - 1- | 4/5.791 |
| Subtotal: Installation | 1/7.500 | 3/5.171 | 2/3.413 | 4/5.791 | - 1- | 4/5.791 |
| Total |  |  |  |  |  |  |
| Total Cost (Procurement + Support + Installation) | 155.435 | 68.290 | 69.893 | 48.129 | 0.000 | 48.129 |

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| Exhibit P-3a, Individual Modification: PB 2022 Air Force |  |  |  |  | Date: May 2021 |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity 3010F / 05 / 5 | P-1 Line Item Number / Title: E00300 / E-3 |  |  |  | Modification Number / Title: 9718 / IP-enabled Capability (IPEC) |  |
| ID Code (A=Service Ready, $\mathrm{B}=$ Not Service Ready) : B | MDAP/MAIS Code: |  |  |  |  |  |
| Resource Summary | Prior Years | FY 2020 | FY 2021 | FY 2022 Base | FY 2022 OCO | FY 2022 Total |
| Procurement Quantity (Units in Each) | - | - | - | - | - | - |
| Gross/Weapon System Cost (\$ in Millions) | 87.893 | 23.971 | 10.747 | 13.612 | 0.000 | 13.612 |
| Less PY Advance Procurement (\$ in Millions) | - | - | - | - | - | - |
| Net Procurement (P-1) (\$ in Millions) | 87.893 | 23.971 | 10.747 | 13.612 | 0.000 | 13.612 |
| Plus CY Advance Procurement (\$ in Millions) | - | - | - | - | - | - |
| Total Obligation Authority (\$ in Millions) | 87.893 | 23.971 | 10.747 | 13.612 | 0.000 | 13.612 |
| (The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.) |  |  |  |  |  |  |
| Initial Spares (\$ in Millions) | - | - | 3.204 | - | - | - |
| Gross/Weapon System Unit Cost (\$ in Millions) | - | - | - | - | - | - |

## Description:

Internet Protocol Enabled Communication (IPEC): IPEC provides the E-3G aircraft with a medium-bandwidth IP communications capability to connect to the Global Information Grid (GIG) and will support netcentric operations/warfare. IPEC provides a reliable IP-Enabled communication capability to support a shortened digitized kill-chain of time-sensitive targets. The modification provides a permanent INMARSATbased IP-Enabled communications package supporting warfighter identified requirements for increased bandwidth SIPRNET and multi-domain networks. The IPEC program ensures future system viability by replacing components identified for Diminishing Manufacturing Source or cyber vulnerability concerns. This modification has related RDT\&E funding in PE 0207417F.

Milestone/Development Status
EMD contract awarded 21 September 2015.
Limited Production Contract awarded 4 November 2016. Full-Rate Kits 11-24, Installs 11-17 UCA awarded 30 November 2017, definitized 15 May 2019; Full Rate kits 25 awarded 11 August 2020 , Installs 18-23 awarded 16 November 2020, kits 26-28 awarded 28 January 2021, kit 29 award projected 1 May 2021, kits 30-31 award projected 30 November 2021.

Out of 30 Production aircraft, 16 IPEC mods have been completed to date.

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| Exhibit P-3a, Individual Modification: PB 2022 Air Force |  |  |  |  | Date: May 2021 <br> Modification Number / Title: 9721 / AWACS Communications Integration Program (ACIP) |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5 |  | P-1 Line Item Number / Title: E00300 / E-3 |  |  |  |  |
| ID Code (A=Service Ready, B=Not Service Ready) : B |  |  | MDAP/MAIS Code: |  |  |  |
| Models of Systems Affected: E-3 | Modification Type: Capability Improvement |  |  | Related RDT\&E PEs: 0207417F |  |  |
| Financial Plan | Prior Years | FY 2020 | FY 2021 | FY 2022 Base | FY 2022 OCO | FY 2022 Total |
|  | $\begin{gathered} \text { Qty (Each) I } \\ \text { Total Cost (\$M) } \\ \hline \end{gathered}$ | Qty (Each) I Total Cost (\$ M) | Qty (Each) I <br> Total Cost (\$ M) | Qty (Each) I Total Cost (\$ M) | $\begin{gathered} \text { Qty (Each) I } \\ \text { Total Cost (\$ M) } \end{gathered}$ | Qty (Each) I Total Cost (\$ M) |
| RDT\&E PE\# |  |  |  |  |  |  |
| 0207417F | 1 | - 11.367 | - 114.883 | - 124.194 | 1 - | - 124.194 |
| Procurement |  |  |  |  |  |  |
| Modification Item 1 of 1: ACIP |  |  |  |  |  |  |
| A Kits |  |  |  |  |  |  |
| Recurring |  |  |  |  |  |  |
| ACIP:INSTALL KITS Group A (Active) | - 1 - | - 1- | - 1- | 13/0.419 | 1 - | 13/0.419 |
| Subtotal: Recurring | - 1 | - 1- | - 1- | - 10.419 | - / - | - 10.419 |
| B Kits |  |  |  |  |  |  |
| Recurring |  |  |  |  |  |  |
| ACIP:EQUIPMENT Group B (Active) | 1 - | - 1- | - 1- | 13/9.917 | 1 - | 13/9.917 |
| Subtotal: Recurring | - 1 - | - 1 - | - 1 - | - 19.917 | - 1 - | - 19.917 |
| Subtotal: ACIP | 1. | 1 | - / - | - /10.336 | - 1. | - /10.336 |
| Subtotal: Procurement, All Modification Items | - / - | - / - | - / - | - /10.336 | 1 - | - /10.336 |
| Support (All Modification Items) |  |  |  |  |  |  |
| GROUP A: TOTAL NONRECURRING | 1 | - 1 - | 1. | - 15.620 | 1 - | - 15.620 |
| Change Orders | - 1 - | - 1- | -1- | - 10.076 | - 1 - | - 10.076 |
| PMA - Contractor Services | - 1 - | - 1- | 1 | - 11.859 | - 1 - | - 11.859 |
| Subtotal: Support | - $/$ - | - / - | - $/$ - | - /7.555 | 1 | - 17.555 |
| Installation |  |  |  |  |  |  |
| Subtotal: Installation | - 1 - | - 1. | - 1 - | - 1 - | - 1 - | - 1. |
| Total |  |  |  |  |  |  |
| Total Cost (Procurement + Support + Installation) | - | 0.000 | 0.000 | 17.891 | 0.000 | 17.891 |

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Exhibit P-40, Budget Line Item Justification: PB 2022 Air Force
Date: May 2021
Appropriation / Budget Activity / Budget Sub Activity:
3010F: Aircraft Procurement, Air Force / BA 05: Modification of Inservice Aircraft /
BSA 5: Other Aircraft

## P-1 Line Item Number / Title: <br> E00400 / E-4

| ID Code (A=Service Ready, B=Not Service Ready): B | Program Elements for Code B Items: 0302015F | Other Related Program Elements: 0101316F, 0302015F |
| :--- | :--- | :--- | :--- |

Line Item MDAP/MAIS Code: N/A

| Resource Summary | Prior <br> Years | FY 2020 | FY 2021 | $\text { FY } 2022$ <br> Base | $\begin{gathered} \text { FY } 2022 \\ \text { Oco } \end{gathered}$ | $\begin{gathered} \text { FY } 2022 \\ \text { Total } \end{gathered}$ | FY 2023 | FY 2024 | FY 2025 | FY 2026 | To Complete | Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Procurement Quantity (Units in Each) | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Cost (\$ in Millions) | 244.359 | 52.977 | 44.140 | 19.081 | - | 19.081 | - | - | - | - | - | - |
| Less PY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Net Procurement (P-1) (\$ in Millions) | 244.359 | 52.977 | 44.140 | 19.081 | - | 19.081 | - | - | - | - | - | - |
| Plus CY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Total Obligation Authority (\$ in Millions) | 244.359 | 52.977 | 44.140 | 19.081 | - | 19.081 | - | - | - | - | - | - |
| (The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.) |  |  |  |  |  |  |  |  |  |  |  |  |
| Initial Spares (\$ in Millions) | - | 0.332 | 0.339 | 0.346 | - | 0.346 | - | - | - | - | - | - |
| Flyaway Unit Cost (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Unit Cost (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |

## Description:




 reliability, and maintainability.




 Contract (FFRDC) support and equipment as required.

Funding may be used to address Diminishing Manufacturing Sources and Material Shortages (DMSMS) issues.
This funding may include emerging modification requirements to support PMA, A\&AS, equipment and other government cost.

Exhibit P-40, Budget Line Item Justification: PB 2022 Air Force
Date: May 2021
Appropriation / Budget Activity / Budget Sub Activity:
3010F: Aircraft Procurement, Air Force / BA 05: Modification of Inservice Aircraft /
BSA 5: Other Aircraft

## P-1 Line Item Number / Title: <br> E00400 / E-4

BSA 5: Other Aircraft

| ID Code (A=Service Ready, B=Not Service Ready): B |  | Program Elements for Code B Items: 0302015F |  |  |  |  | Other Related Program Elements: 0101316F, 0302015F |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Line Item MDAP/MAIS Code: N/A |  |  |  |  |  |  |  |  |  |  |
| Exhibits Schedule |  |  |  |  | Prior Years | FY 2020 | FY 2021 | FY 2022 Base | FY 2022 OCO | FY 2022 Total |
| Exhibit Type | Title* | Subexhibits | $\begin{array}{\|l\|l\|} \hline \text { ID } \\ \text { CD } \\ \hline \end{array}$ | MDAP/ MAIS Code | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) |
| P-40a*** | 3410 / NPES (NC2AIS) E-4B (Reliability \& Maintainability) |  |  |  | - 12.730 | - 1- | 1 | - 1 | - 1- | 1 |
| P-40a*** | 3411 / Survivable SHF (Capability Improvement) |  |  |  | - 1 - | - 1 - | - 10.045 | - 11.556 | - 1 - | - 11.556 |
| P-40a*** | 4380 / MUOS (Capability Improvement) |  |  |  | - 10.000 | - / 3.307 | - 10.233 | - / 4.559 | - 1 - | - 14.559 |
| P-40a*** | 4406A / SHF Modernization (Capability Improvement) |  |  |  | - /120.088 | - 1 - | - 1 - | - 1 | - 1 - | 1 |
| P-40a*** | 4409 / Low Frequency Transmit System (LFTS) (Capability Improvement) Improvement) |  |  |  | - 178.235 | - / 34.248 | - / 20.018 | -1 | - 1 | 1 |
| P-40a*** | 9709F / CNS/ATM(ADS-B OUT) (Capability Improvement) |  |  |  | - 19.978 | - 10.000 | - 1 | - 1 | - 1 - | - 1 - |
| P-40a*** | 99999S / SERVICE BULLETINS (Reliability \& Maintainability) |  |  |  | - /12.864 | - 10.067 | - 15.719 | - 11.186 | - 1 - | - /1.186 |
| P-40a*** | 99999x / Low Cost Modifications (Reliability \& Maintainability) |  |  |  | - / 12.340 | - 11.990 | - 11.990 | - 11.990 | 1 | - 11.990 |
| P-3a | 1/ AEHF Compatible Terminal/PNVC (Capability Improvement) |  | B |  | - 18.124 | - /13.365 | - 116.135 | - 19.790 | - 10.000 | - 19.790 |
| P-40 | Total Gross/Weapon System Cost |  |  |  | - 1244.359 | - 152.977 | - 144.140 | - / 19.081 | - 1 | - /19.081 |

*** Although this is an Exhibit P-40a item, the actual exhibit is not included since all of the required information for this item is already being shown here.
*Title represents 1) the Number / Title for Items; 2) the Number / Title [DODIC] for Ammunition; and/or 3) the Number / Title (Modification Type) for Modifications
Note: Totals in this Exhibit P-40 set may not be exact or sum exactly due to rounding.

## Justification:

N/A

| Exhibit P-3a, Individual Modification: PB 2022 Air Force |  |  |  |  | Date: May 2021 |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5 | P-1 Line Item Number / Title:E00400 / E-4 |  |  |  | Modification Number / Title: <br> 1 / AEHF Compatible Terminal/PNVC |  |
| ID Code (A=Service Ready, $B=$ Not Service Ready) : $B$ | MDAP/MAIS Code: |  |  |  |  |  |
| Resource Summary | Prior Years | FY 2020 | FY 2021 | FY 2022 Base | FY 2022 OCO | FY 2022 Total |
| Procurement Quantity (Units in Each) | - | - | - | - | - | - |
| Gross/Weapon System Cost (\$ in Millions) | 8.124 | 13.365 | 16.135 | 9.790 | 0.000 | 9.790 |
| Less PY Advance Procurement (\$ in Millions) | - | - | - | - | - | - |
| Net Procurement (P-1) (\$ in Millions) | 8.124 | 13.365 | 16.135 | 9.790 | 0.000 | 9.790 |
| Plus CY Advance Procurement (\$ in Millions) | - | - | - | - | - | - |
| Total Obligation Authority (\$ in Millions) | 8.124 | 13.365 | 16.135 | 9.790 | 0.000 | 9.790 |
| (The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.) |  |  |  |  |  |  |
| Initial Spares (\$ in Millions) | - | - | - | - | - | - |
| Gross/Weapon System Unit Cost (\$ in Millions) | - | - | - | - | - | - |

## Description:

This modification will install a Family of Advanced Beyond-Line-Of-Sight (FAB-T) / Presidential National Voice Conferencing (PNVC) system and will remove the currently installed Military Strategic Tactical Relay (MILSTAR) / Survivable Emergency Conferencing Network (SECN) systems. This modification is required to meet existing Presidential Policy Directive (PPD)-35, and National Security Presidential Directive (NSPD)-51/Homeland Security Presidential Directive (HSPD)-20 requirements and to ensure continued connectivity and interoperability as satellite and communications infrastructure evolves. FAB-T Command Post Terminals will replace the MILSTAR Terminal and will provide access to protected wideband Advanced Extremely High Frequency (AEHF) satellite networks. PNVC replaces SECN, which will not be supported once the AEHF satellite network is in place.

This funding may include emerging modification requirements to support PMA, A\&AS, equipment and other government cost.
Milestone/Development Status
Milestone B occurred in November 2016; Systems Requirements Review (SRR) occurred in June 2017; Preliminary Design Review (PDR) occurred in May 2018; and the Critical Design Review (CDR) occurred in 4QTR FY18. Two prototype kits funded with FY16 RDT\&E. Second production kit procured in FY20. Production aircraft 2 installation, Automatic Patch and Test System (APTS), and antenna Retrofit 1, 2, and 3 aircraft A kits funded with FY21 procurement. FY22 procurement will fund APTS Retrofit installation, FAB-T Antenna Retrofit 1 installation, and technical data updates. Other efforts will include integration and support activities and logistics planning.

Milestone C completed 2QFY21. Production contract RFP release briefs approved by MDA on 2 Jul 19 for Production Kit 1 procurement and 17 Apr 20 for Production Kit 2 procurement.
Note: FY20 production kit reflects procurement of one FAB-T kit and zero PNVC kits. Justification based on economic buy for the PNVC kit in FY19.
Note: FY21 funds will be used for 3 retrofit kits.

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| Exhibit P-3a, Individual Modification: PB 2022 Air Force |  |  |  |  | Date: May 2021 |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05/5 |  | P-1 Line Item Number / Title: E00400 / E-4 |  |  | Modification Number / Title: <br> 1 / AEHF Compatible Terminal/PNVC |  |
| ID Code (A=Service Ready, B=Not Service Ready) : B |  |  | MDAP/MAIS Code: |  |  |  |
| Models of Systems Affected: E-4B | Modification Type: Capability Improvement |  |  | Related RDT\&E PEs: 0302015F |  |  |
|  | Prior Years | FY 2020 | FY 2021 | FY 2022 Base | FY 2022 OCO | FY 2022 Total |
| Financial Plan | $\begin{gathered} \text { Qty (Each) I } \\ \text { Total Cost (\$M) } \end{gathered}$ | $\begin{gathered} \text { Qty (Each) I } \\ \text { Total Cost (\$M) } \end{gathered}$ | $\begin{gathered} \text { Qty (Each) I } \\ \text { Total Cost (\$ M) } \end{gathered}$ | $\begin{gathered} \text { Qty (Each) I } \\ \text { Total Cost }(\$ M) \\ \hline \end{gathered}$ | $\begin{gathered} \text { Qty (Each) I } \\ \text { Total Cost (\$M) } \end{gathered}$ | $\begin{gathered} \text { Qty (Each) I } \\ \text { Total Cost (\$M) } \end{gathered}$ |
| RDT\&E PE \# |  |  |  |  |  |  |
| 0302015F | 1/24.337 | 1/15.087 | - 1- | - 1- | - 1- | -1- |
| Procurement |  |  |  |  |  |  |
| Modification Item 1 of 1: AEHF Initial Kits |  |  |  |  |  |  |
| A Kits |  |  |  |  |  |  |
| Recurring |  |  |  |  |  |  |
| AEHF Intitia Kits:INSTALL KITS Group A (Active) | $1 / 7.607$ | 1/10.500 | 3/4.100 | - 1- | 1 - | - 1- |
| Subtotal: Recurring | - 17.607 | - /10.500 | - 14.100 | - 1- | - 1- | - 1- |
| Subtotal: AEHF Initial Kits | - 17.607 | - /10.500 | - 14.100 | - / - | - / - | - 1. |
| Subtotal: Procurement, All Modification Items | - 17.607 | - /10.500 | - 14.100 | - 1- | 1 - | - 1- |
| Support (All Modification Items) |  |  |  |  |  |  |
| PMA - Other Gov't Costs | - 10.517 | - 12.865 | - 11.535 | - 11.690 | - 1. | - 11.690 |
| Subtotal: Support | - 10.517 | - 12.865 | - /1.535 | - 11.690 | 1 - | - 11.690 |
| Installation |  |  |  |  |  |  |
| Modification Item 1 of 1: AEHF Initial Kits | - 1- | - 1- | 1/10.500 | 1/8.100 | - 1 - | $1 / 8.100$ |
| Subtotal: Installation | - 1 - | - 1 - | 1/10.500 | 1/8.100 | - / - | 1/8.100 |
| Total |  |  |  |  |  |  |
| Total Cost (Procurement + Support + Installation) | 8.124 | 13.365 | 16.135 | 9.790 | 0.000 | 9.790 |

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Exhibit P-40, Budget Line Item Justification: PB 2022 Air Force
Date: May 2021
Appropriation / Budget Activity / Budget Sub Activity:
3010F: Aircraft Procurement, Air Force / BA 05: Modification of Inservice Aircraft /
BSA 5: Other Aircraft

## P-1 Line Item Number / Title: <br> E00800 / E-8

| ID Code (A=Service Ready, B=Not Service Ready): |  |  | Program Elem | ents for Cod | B Items: 0 | 7581F |  | ther Rela | Program E | ents: N/A |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Line Item MDAP/MAIS Code: N/A |  |  |  |  |  |  |  |  |  |  |  |  |
| Resource Summary | Prior <br> Years | FY 2020 | FY 2021 | $\begin{gathered} \text { FY } 2022 \\ \text { Base } \end{gathered}$ | $\begin{gathered} \text { FY } 2022 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \text { FY } 2022 \\ \text { Total } \end{gathered}$ | FY 2023 | FY 2024 | FY 2025 | FY 2026 | To Complete | Total |
| Procurement Quantity (Units in Each) | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Cost (\$ in Millions) | 18.000 | 48.778 | 22.037 | 16.312 | - | 16.312 | - | - | - | - | - | - |
| Less PY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Net Procurement (P-1) (\$ in Millions) | 18.000 | 48.778 | 22.037 | 16.312 | - | 16.312 | - | - | - | - | - | - |
| Plus CY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Total Obligation Authority (\$ in Millions) | 18.000 | 48.778 | 22.037 | 16.312 | - | 16.312 | - | - | - | - | - | - |
| (The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.) |  |  |  |  |  |  |  |  |  |  |  |  |
| Initial Spares (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Flyaway Unit Cost (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Unit Cost (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |

## Description:



 mission at the tactical edge both reduces the time to execute the kill chain and improves ISR collections across the range of military options.

There are $16 \mathrm{E}-8 \mathrm{Cs}$ in inventory plus $1 \mathrm{E}-8 \mathrm{~A}$ trainer.

 mission related requirements, MUOS-SATURN, MIDS-JTRS (CMN-4), and Blue Force Tracker.

FY2020:

- Emergency Locator Transmitter (ELT) completed all kits delivered for installation
- CENTRIXS A/C kit selloff complete
- BE-CDL awarded risk reduction effort - initial engineering design and installation plans for NRE effort
- DMOC award complete
- MODE 5 GFE on order, Contract awarded 3QFY21
- Provided other Program Office direct cost associated with executing programs.


## FY2021

- BE-CDL continued NRE
- SATCOM / MUOS Radios awarded 3QFY21
- Provide other Program Office direct cost associated with executing programs


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| Exhibit P-40, Budget Line Item Justification: PB 2022 Air Force |  |  |  |  |  |  |  | Date: May 2021 |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: <br> 3010F: Aircraft Procurement, Air Force / BA 05: Modification of Inservice Aircraft / <br> BSA 5: Other Aircraft |  |  |  |  | P-1 Line Item Number / Title: E00800 / E-8 |  |  |  |  |  |
| ID Code (A=Service Ready, B=Not Service Ready): B |  | Program Elements for Code B Items: 0207581F |  |  |  | Other Related Program Elements: N/A |  |  |  |  |
| Line Item MDAP/MAIS Code: N/A |  |  |  |  |  |  |  |  |  |  |
| FY2022 <br> - BE-CDL continues NRE <br> - SATCOM / MUOS continues procurement of radios / installs <br> - Provide other Program Office direct cost associated with executing programs |  |  |  |  |  |  |  |  |  |  |
| Secondary Distribution |  | FY 2020 | FY 2021 | $\begin{gathered} \text { FY } 2022 \\ \text { Base } \end{gathered}$ | $\begin{aligned} & \text { FY } 2022 \\ & \text { OCO } \end{aligned}$ | $\begin{gathered} \hline \text { FY } 2022 \\ \text { Total } \end{gathered}$ | FY 2023 | FY 2024 | FY 2025 | FY 2026 |
| AF | Quantity | - | - | - | - | - | - | - | - |  |
|  | Total Obligation Authority | 48.778 | 22.037 | 16.312 | - | 16.312 | - | - | - | - |
| Total: <br> Secondary Distribution | Quantity | - | - | - | - | - | - | - | - | - |
|  | Total Obligation Authority | 48.778 | 22.037 | 16.312 | - | 16.312 |  | - | - |  |

Exhibit P-40, Budget Line Item Justification: PB 2022 Air Force
Appropriation / Budget Activity / Budget Sub Activity:
3010F: Aircraft Procurement, Air Force / BA 05: Modification of Inservice Aircraft /
BSA 5: Other Aircraft

## P-1 Line Item Number / Title: E00800 / E-8

BSA 5: Other Aircraft

| ID Code (A=Service Ready, B=Not Service Ready): B |  | Program Elements for Code B Items: 0207581F |  |  |  |  | Other Related Program Elements: N/A |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Line Item MDAP/MAIS Code: N/A |  |  |  |  |  |  |  |  |  |  |
| Exhibits Schedule |  |  |  |  | Prior Years | FY 2020 | FY 2021 | FY 2022 Base | FY 2022 OCO | FY 2022 Total |
| Exhibit Type | Title* | Subexhibits | $\begin{array}{\|l\|} \hline \text { ID } \\ \text { CD } \end{array}$ | MDAP/ MAIS Code | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) |
| P-40a*** | 38203 / Distributed Mission Ops Center (DMOC) (Other) |  |  |  | - 1 - | - 14.029 | - 1 | - 1 | - 1 | - 1 |
| P-40a*** | 38204 / JSTARS OCO Requirements (Other) |  |  |  | - /13.000 | - 1 - | - 1 | - 1 | - 1 | - 1 |
| P-40a*** | 38207 / JSTARS Re-engining (Reliability \& Maintainability) |  |  |  | - 1 - | - 120.000 | - 1 | - 1 | - 1 | - 1 |
| P-3a | 38202 / Common Data Link (Other) |  | B |  | - 15.000 | - 124.749 | - /14.436 | - 18.711 | - 10.000 | - 18.711 |
| P-3a | 38206 / SATCOM/MUOS Radios (Capability Improvement) |  | B |  | - 1 - | - 1 - | - 17.601 | - 17.601 | - 10.000 | - 17.601 |
| P-40 | Total Gross/Weapon System Cost |  |  |  | - /18.000 | - 148.778 | - /22.037 | - /16.312 | - 1 - | - /16.312 |

*** Although this is an Exhibit P-40a item, the actual exhibit is not included since all of the required information for this item is already being shown here.
*Title represents 1) the Number / Title for Items; 2) the Number / Title [DODIC] for Ammunition; and/or 3) the Number / Title (Modification Type) for Modifications
Note: Totals in this Exhibit P-40 set may not be exact or sum exactly due to rounding.

## Justification:

In FY20 this program, P-3a, Mod 38207 JSTARS Re-engining was redefined by congressional language to be MODE 5 (IFF), and ARC-210 Gen 6 radios, as funds permit.
 \$14.436M.

The FY22 PB divests 4 E-8C aircraft.

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| Exhibit P-3a, Individual Modification: PB 2022 Air Force |  |  |  |  | Date: May 2021 |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5 | P-1 Line Item Number / Title: E00800 / E-8 |  | Modification Number / Title: 38202 / Common Data Link |  |  |  |
| ID Code (A=Service Ready, B=Not Service Ready) : B | MDAP/MAIS Code: |  |  |  |  |  |
| Resource Summary | Prior Years | FY 2020 | FY 2021 | FY 2022 Base | FY 2022 OCO | FY 2022 Total |
| Procurement Quantity (Units in Each) | - | - | - | - | - |  |
| Gross/Weapon System Cost (\$ in Millions) | 5.000 | 24.749 | 14.436 | 8.711 | 0.000 | 8.711 |
| Less PY Advance Procurement (\$ in Millions) | - | - | - | - | - | - |
| Net Procurement (P-1) (\$ in Milions) | 5.000 | 24.749 | 14.436 | 8.711 | 0.000 | 8.711 |
| Plus CY Advance Procurement (\$ in Millions) | - | - | - | - | - | - |
| Total Obligation Authority (\$ in Millions) | 5.000 | 24.749 | 14.436 | 8.711 | 0.000 | 8.711 |
| (The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.) |  |  |  |  |  |  |
| Initial Spares (\$ in Millions) | - | - | - | - | - | - |
| Gross/Weapon System Unit Cost (\$ in Millions) | - | - | - | - | - | - |

## Description:

Bandwidth Efficient Common Data Link (BE-CDL) is a jam-resistant air-to-ground line-of-sight link from the JSTARS to the Army's Tactical Intelligence Ground Station (TGS) and USMC Tactical Exploitation Group Remote Work Station (TEG-RWS). Current Surveillance Common Data Link (SCDL) is encrypted using the KGV-8, which is near end of life and has been operating with an extended National Security Agency (NSA) waiver. Section 144 of the FY18 NDAA has mandated that military aircraft use a specified standard data link, eliminating the waiver authority of the Deputy SECDEF on 1 October 23 . NSA has also mandated type 1 encryption on all airborne Common Data Link (CDL) platforms.

Milestone/Development Status
The BE-CDL program requires no development to provide Air-to-Ground capability.

| Secondary Distribution |  | FY 2020 | FY 2021 | $\begin{gathered} \text { FY } 2022 \\ \text { Base } \end{gathered}$ | $\begin{gathered} \text { FY } 2022 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \hline \text { FY } 2022 \\ \text { Total } \end{gathered}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| AF | Quantity | - | - | - | - | - |
|  | Total Obligation Authority | 24.749 | 14.436 | 8.711 | - | 8.711 |
| Total: Secondary Distribution | Quantity | - | - | - | - | - |
|  | Total Obligation Authority | 24.749 | 14.436 | 8.711 | 0.000 | 8.711 |

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| Exhibit P-3a, Individual Modification: PB 2022 Air Force |  |  | Date: May 2021 |
| :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5 |  | er / Title: | Modification Number / Title: 38202 / Common Data Link |
| ID Code (A=Service Ready, B=Not Service Ready) : B |  | MDAP/MAIS Code: |  |
| Modification Item 1 of 1: CDL |  |  |  |
| Manufacturer Information |  |  |  |
| Manufacturer Name: Northrop Grumman |  | Manufacturer Location: Melbourne |  |
| Administrative Leadtime (in Months): 2 |  | Production Leadtime (in Months): 10 |  |
| Dates | FY 2020 | FY 2021 | FY 2022 |
| Contract Dates | Sep 2020 | May 2021 | Jan 2022 |
| Delivery Dates | Jul 2021 | Mar 2022 | Nov 2022 |
|  |  |  |  |
| Installation Information |  |  |  |
| Method of Implementation (Organic): Org/Intermediate |  | Installation Quantity: 12 |  |

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Appropriation / Budget Activity / Budget Sub Activity:
3010F: Aircraft Procurement, Air Force / BA 05: Modification of Inservice Aircraft /
BSA 5: Other Aircraft

## P-1 Line Item Number / Title:

E34045 / Airborne Warning and Cntrl Sys (AWACS) 40/45

| ID Code (A=Service Ready, B=Not Service Ready): | Program Elements for Code B Items: 0207417F | Other Related Program Elements: 0207417F |
| :--- | :--- | :--- | :--- |

Line Item MDAP/MAIS Code: 277

| Resource Summary | Prior <br> Years | FY 2020 | FY 2021 | $\text { FY } 2022$ Base | $\begin{gathered} \text { FY } 2022 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \text { FY } 2022 \\ \text { Total } \end{gathered}$ | FY 2023 | FY 2024 | FY 2025 | FY 2026 | To Complete | Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Procurement Quantity (Units in Each) | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Cost (\$ in Millions) | 805.139 | 32.821 | 53.343 | 30.327 | - | 30.327 | - | - | - | - | - | - |
| Less PY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Net Procurement (P-1) (\$ in Millions) | 805.139 | 32.821 | 53.343 | 30.327 | - | 30.327 | - | - | - | - | - | - |
| Plus CY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Total Obligation Authority (\$ in Millions) | 805.139 | 32.821 | 53.343 | 30.327 | - | 30.327 | - | - | - | - | - | - |
| (The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.) |  |  |  |  |  |  |  |  |  |  |  |  |
| Initial Spares (\$ in Millions) | 7.666 | 3.226 | 3.282 | - | - | - | - | - | - | - | - | - |
| Flyaway Unit Cost (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Unit Cost (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |

## Description:








 a low-bandwidth internet chat capability (Secure Iridium Chat).



 captured upon initial modification to the Block 40/45 configuration, these DMS updates are not captured in the Installation Schedule.

 Kadena AFB, Japan.
Appropriation / Budget Activity / Budget Sub Activity:
3010F: Aircraft Procurement, Air Force / BA 05: Modification of Inservice Aircraft /
BSA 5: Other Aircraft

## P-1 Line Item Number / Title:

E34045 / Airborne Warning and Cntrl Sys (AWACS) 40/45

| ID Code (A=Service Ready, B=Not Service Ready): |  | Program Elements for Code B Items: 0207417F |  |  |  |  | Other Related Program Elements: 0207417F |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Line Item MDAP/MAIS Code: 277 |  |  |  |  |  |  |  |  |  |  |
| Exhibits Schedule |  |  |  |  | Prior Years | FY 2020 | FY 2021 | FY 2022 Base | FY 2022 OCO | FY 2022 Total |
| Exhibit Type | Title* | Subexhibits | $\begin{aligned} & \text { ID } \\ & \text { CD } \end{aligned}$ | MDAP/ MAIS Code | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) |
| P-3a | 1 / BLOCK 40/45 BLOCK UPGRADE (Capability Improvement) |  | A |  | - 1805.139 | - / 32.821 | - / 53.343 | - / 30.327 | - 10.000 | / 30.327 |
| P-40 | Total Gross/Weapon System Cost |  |  |  | - $/ 805.139$ | - $/ 32.821$ | - $/ 53.343$ | - 130.327 | 1 | 130.327 |

${ }^{*}$ Title represents 1) the Number / Title for Items; 2) the Number / Title [DODIC] for Ammunition; and/or 3) the Number / Title (Modification Type) for Modifications.
Note: Totals in this Exhibit P-40 set may not be exact or sum exactly due to rounding.

## Justification:


 aircraft will be delivered to the 552 nd Air Control Wing (ACW) at Tinker AFB, OK, bringing the total Block $40 / 45$ ( $\mathrm{E}-3 \mathrm{G}$ ) configured aircraft to 28 of the planned total of 31 aircraft to be modified.

In FY2022, the Program will also induct eight (8) Block $40 / 45$ aircraft at older DMS baselines (P8, P9, P10, P11, P12, P13, P14, P15) for modification to the DMS 4.0 baseline configuration. As these aircraft were captured upon initial modification to the Block 40/45 configuration, these DMS updates are not captured in the Installation Schedule.

The Program will continue to meet emerging cyber security and system integration requirements and continue executing a Performance Based Logistics contract to maintain fielded aircraft and ground support systems. The program will continue to support the 552 nd ACW and field support infrastructure at the 962 nd Air Control Squadron at Joint Base Elmendorf- Richardson, AK and the 961st Air Control Squadron at Kadena AFB, Japan.

The program will continue to meet emerging cyber security and system integration requirements and maintain fielded aircraft by transitioning from Interim Contractor Support (ICS) to two long-term PBL Contractor Logistics Support (CLS) contracts that were awarded in FY2020. The program will continue to support the 552nd ACW and field support infrastructure at the 962 nd Air Control Squadron at Joint Base Elmendorf- Richardson, AK and the 961st Air Control Squadron at Kadena AFB, Japan.

Exhibit P-3a, Individual Modification: PB 2022 Air Force

## Appropriation / Budget Activity / Budget Sub Activity:

 3010F/05/5
## P-1 Line Item Number / Title: E34045 / Airborne Warning and Cntrl Sys (AWACS) 40/45

Date: May 2021

## Modification Number / Title:

1 / BLOCK 40/45 BLOCK UPGRADE

ID Code (A=Serice Ready, $B=$ Not Service Ready) : A
MDAP/MAIS Code:

| Resource Summary | Prior Years | FY 2020 | FY 2021 | FY 2022 Base | FY 2022 OCO | FY 2022 Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Procurement Quantity (Units in Each) | - | - | - | - | - | - |
| Gross/Weapon System Cost (\$ in Millions) | 805.139 | 32.821 | 53.343 | 30.327 | 0.000 | 30.327 |
| Less PY Advance Procurement (\$ in Millions) | - | - | - | - | - | - |
| Net Procurement (P-1) (\$ in Millions) | 805.139 | 32.821 | 53.343 | 30.327 | 0.000 | 30.327 |
| Plus CY Advance Procurement (\$ in Millions) | - | - | - | - | - | - |
| Total Obligation Authority (\$ in Millions) | 805.139 | 32.821 | 53.343 | 30.327 | 0.000 | 30.327 |
| (The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.) |  |  |  |  |  |  |
| Initial Spares (\$ in Millions) | 7.666 | 3.226 | 3.282 | 0.000 | - | 0.000 |
| Gross/Weapon System Unit Cost (\$ in Millions) | - | - | - | - | - | - |

## Description:








 a low-bandwidth internet chat capability (Secure Iridium Chat).




 provide updates to fielded ground support systems and provide systems to support organic software maintenance.


 work.

 Squadron at Kadena AFB, Japan.



| Exhibit P-3a, Individual Modification: PB 2022 Air Force |  | 021 |
| :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5 | P-1 Line Item Number / Title: E34045 / Airborne Warning and Cntrl Sys (AWACS) 40/45 | Modification Number / Title: 1 / BLOCK 40/45 BLOCK UPGRADE |
| ID Code (A=Service Ready, B=Not Service Ready) : A | MDAP/MAIS Code: |  |
| included in P-1 Line Item number E00300, this document accounts for the remaining 18 shipsets to complete the full fleet of 31 aircraft. Also, as the first five (5) shipsets installed under E34045 were purchased in FY2012 \& FY2014 and are included in P-1 Line Item number E00300, the Installation Schedule reflects a total of 23 modification installs to capture the five (5) shipsets purchased in FY2012 \& FY2014 as well as the 18 shipsets purchased under E34045. |  |  |
| FY2022 Plan: Program continues to complete block modification upgrades to the $40 / 45$ configuration (E-3G). Two (2) Block 30/35 aircraft (P28, P29) will be inducted to be retrofitted to the Block 40/45 DMS 4.0 baseline configuration. Four (4) aircraft that began modification from Block 30/35 to Block 40/45 in FY2021 (P24, P25, P26, P7), and one (1) Block 30/35 aircraft inducted in FY22 (P28) will be completed in FY2022. The aircraft will be delivered to the 552nd Air Control Wing (ACW) at Tinker AFB, OK, bringing the total Block 40/45 (E-3G) configured aircraft to 28 of the planned total of 31 aircraft to be modified. |  |  |
| In FY2022, the Program will also induct eight (8) Block $40 / 45$ aircraft at older DMS baselines (P8, P9, P10, P11, P12, P13, P14, P15) for modification to the DMS 4.0 baseline configuration. As these aircraft were captured upon initial modification to the Block 40/45 configuration, these DMS updates are not captured in the Installation Schedule. |  |  |
| The Program will continue to meet emerging cyber security and system integration requirements and continue executing a Performance Based Logistics contract to maintain fielded aircraft and ground support systems. The program will continue to support the 552nd ACW and field support infrastructure at the 962nd Air Control Squadron at Joint Base Elmendorf- Richardson, AK and the 961st Air Control Squadron at Kadena AFB, Japan. |  |  |
| Milestone/Development Status |  |  |
| 11/08 - Completed Aircraft Block 40/45 Development (Milestone C/LRIP), 08/11 - Completed Aircraft Block 40/45 Pre-Production, 11/13-Completed Development of MCMT, 02/14 - Completed Development of MCTS, 06/14 - Completed Development of DGS/GS, 06/14 - Last (6th) LRIP Jet Delivered, First Production Jet Inducted, 07/14-IOC Declared by ACC/CC. |  |  |


| Exhibit P-3a, Individual Modification: PB 2022 Air Force |  |  |  |  | Date: May 2021 |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5 |  | P-1 Line Item Number / Title: <br> E34045 / Airborne Warning and Cntrl Sys (AWACS) 40/45 |  |  | Modification Number / Title: 1 / BLOCK 40/45 BLOCK UPGRADE |  |
| ID Code (A=Service Ready, B=Not Service Ready) : A |  |  | MDAP/MAIS Code: |  |  |  |
| Models of Systems Affected: E-3 | Modification Type: Capability Improvement |  |  | Related RDT\&E PEs: 0207417F |  |  |
|  | Prior Years | FY 2020 | FY 2021 | FY 2022 Base | FY 2022 OCO | FY 2022 Total |
| Financial Plan | $\begin{gathered} \text { Qty (Each) I } \\ \text { Total Cost }(\$ M) \\ \hline \end{gathered}$ | $\begin{gathered} \text { Qty (Each)I } \\ \text { Total Cost (\$M) } \end{gathered}$ | $\begin{gathered} \text { Qty (Each) I } \\ \text { Total Cost (\$ M) } \end{gathered}$ | $\begin{gathered} \text { Qty (Each) I } \\ \text { Total Cost }(\$ M) \end{gathered}$ | $\begin{gathered} \text { Qty (Each)I } \\ \text { Total Cost (\$M) } \\ \hline \end{gathered}$ | $\begin{gathered} \text { Qty (Each) I } \\ \text { Total Cost }(\$ M) \\ \hline \end{gathered}$ |
| Procurement |  |  |  |  |  |  |
| Modification Item 1 of 1: Block 4045 |  |  |  |  |  |  |
| A Kits |  |  |  |  |  |  |
| Recurring |  |  |  |  |  |  |
| Block 4045:INSTALL KITS Group A (Active) | 18/119.165 | - 10.068 | - 1- | - 10.000 | 1 - | - 10.000 |
| Subtotal: Recurring | - /119.165 | - 10.068 | 1. | - 10.000 | 1. | - 10.000 |
| B Kits |  |  |  |  |  |  |
| Recurring |  |  |  |  |  |  |
| Block 4045:EQUIPMENT Group B (Active) | - /109.500 | - 10.017 | - 1- | - 1- | - 1- | - 1 |
| Subtotal: Recurring | - /109.500 | - 10.017 | 1 - | - 1- | . 1 - | 1- |
| Subtotal: Block 4045 | - /228.665 | - 10.085 | - 1- | - 10.000 | - 1- | - 10.000 |
| Subtotal: Procurement, All Modification Items | - /228.665 | - 10.085 | - $/$ - | - 10.000 | -1- | - 10.000 |
| Support (All Modification Items) |  |  |  |  |  |  |
| GROUP B: TOTAL NONRECURRING | - 188.321 | - 1 - | - 1 - | - 10.000 | - 1 - | - 10.000 |
| Make New Selection | - 1174.019 | - 111.854 | - /17.162 | - 17.115 | - 1 - | - 17.115 |
| Change Orders | - 15.064 | - 10.760 | - 10.740 | - 10.771 | - 1- | - 10.771 |
| SIM/TRAINER | 2/38.939 | 1/10.091 | - 1 - | - 1- | - 1- | - 1 - |
| SUPPORT-EQUIP | - 177.173 | - 1- | - 1- | - 1 - | - 1- | - 1- |
| ICS-Labor | - 197.007 | - 13.314 | - 17.515 | - 15.202 | -1- | - 15.202 |
| OTHER GOVT | - 124.757 | - 10.141 | - 10.251 | - 10.279 | -1- | - 10.279 |
| PMA - Other Gov't Costs | - /17.427 | - 10.624 | - 11.014 | - 10.805 | - 1- | - 10.805 |
| PMA - Contractor Services | - 126.596 | - 12.991 | - 15.537 | - 16.151 | - 1- | - 16.151 |
| Subtotal: Support | 2/549.303 | 1/29.775 | - /32.219 | - /20.323 | 1 - | - /20.323 |
| Installation |  |  |  |  |  |  |
| Modification Item 1 of 1: Block 4045 | $14 / 27.171$ | 1/2.961 | 4/21.124 | 2/10.004 | 1 | 2/10.004 |
| Subtotal: Installation | 14/27.171 | 1/2.961 | $4 / 21.124$ | 2/10.004 | 1 | 2/10.004 |
| Total |  |  |  |  |  |  |
| Total Cost (Procurement + Support + Installation) | 805.139 | 32.821 | 53.343 | 30.327 | 0.000 | 30.327 |

## UNCLASSIFIED


Appropriation / Budget Activity / Budget Sub Activity:
3010F: Aircraft Procurement, Air Force / BA 05: Modification of Inservice Aircraft /
BSA 5: Other Aircraft

## P-1 Line Item Number / Title:

FBLOST / Family of Beyond Line-of-Sight Terminals

| ID Code (A=Service Ready, B=Not Service Ready): A |  |  | Program Elements for Code B Items: N/A |  |  |  |  | Other Related Program Elements: 0303001F, 0303601F |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Line Item MDAP/MAIS Code: 199 |  |  |  |  |  |  |  |  |  |  |  |  |
| Resource Summary | Prior <br> Years | FY 2020 | FY 2021 | $\text { FY } 2022$ <br> Base | $\begin{gathered} \text { FY } 2022 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \text { FY } 2022 \\ \text { Total } \end{gathered}$ | FY 2023 | FY 2024 | FY 2025 | FY 2026 | To Complete | Total |
| Procurement Quantity (Units in Each) | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Cost (\$ in Millions) | 81.191 | 7.910 | 1.573 | 0.000 | - | 0.000 | - | - | - | - | - | - |
| Less PY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Net Procurement (P-1) (\$ in Millions) | 81.191 | 7.910 | 1.573 | 0.000 | - | 0.000 | - | - | - | - | - | - |
| Plus CY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Total Obligation Authority (\$ in Millions) | 81.191 | 7.910 | 1.573 | 0.000 | - | 0.000 | - | - | - | - | - | - |
| (The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.) |  |  |  |  |  |  |  |  |  |  |  |  |
| Initial Spares (\$ in Millions) | - | 6.140 | - | - | - | - | - | - | - | - | - | - |
| Flyaway Unit Cost (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Unit Cost (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |

## Description:

 due to the creation of a new Appropriation for Space Force.


 satellite constellations.
 (EAM dissemination and force report back) for airborne platforms. The FET is for the B-52 and select RC-135 aircraft and will not provide satellite control or PNVC functionality.




 authorities and contract mechanisms.

Funding for this exhibit is contained in PE 1203001F

## Justification:


 limited to program office support, studies, technical analysis, prototyping, depot activation (stand-up), ICS, etc.

LI FBLOST - Family of Beyond Line-of-Sight Terminals Air Force

## UNCLASSIFIED

Page 1 of 2

P-1 Line \#61
Volume 2-411

| Exhibit P-40, Budget Line Item Justification: PB 2022 Air Force | Date: May 2021 |  |
| :--- | :--- | :--- |
| Appropriation / Budget Activity / Budget Sub Activity: | P-1 Line Item Number / Title: |  |
| 3010F: Aircraft Procurement, Air Force / BA 05: Modification of Inservice Aircraft / | FBLOST / Family of Beyond Line-of-Sight Terminals |  |
| BSA 5: Other Aircraft | Program Elements for Code B Items: N/A |  |
| ID Code (A=Service Ready, B=Not Service Ready): A | Other Related Program Elements: 0303001F, 0303601F |  |
| Line Item MDAP/MAIS Code: 199 |  |  |

Line Item MDAPMAIS Code: 199

Exhibit P-40, Budget Line Item Justification: PB 2022 Air Force
Appropriation / Budget Activity / Budget Sub Activity:
3010F: Aircraft Procurement, Air Force / BA 05: Modification of Inservice Aircraft /
BSA 5: Other Aircraft

## P-1 Line Item Number / Title: <br> H00100 / H-1

ID Code (A=Service Ready, B=Not Service Ready):
Program Elements for Code B Items: 0101235F
Other Related Program Elements: 0101235F, 0401314F, 0804747F
Line Item MDAP/MAIS Code: N/A

| Resource Summary | Prior <br> Years | FY 2020 | FY 2021 | $\text { FY } 2022$ <br> Base | $\begin{gathered} \text { FY } 2022 \\ \text { Oco } \end{gathered}$ | $\begin{gathered} \text { FY } 2022 \\ \text { Total } \end{gathered}$ | FY 2023 | FY 2024 | FY 2025 | FY 2026 | To Complete | Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Procurement Quantity (Units in Each) | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Cost (\$ in Millions) | 40.076 | 3.817 | 4.410 | 1.533 | - | 1.533 | - | - | - | - | - | - |
| Less PY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Net Procurement (P-1) (\$ in Millions) | 40.076 | 3.817 | 4.410 | 1.533 | - | 1.533 | - | - | - | - | - | - |
| Plus CY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Total Obligation Authority (\$ in Millions) | 40.076 | 3.817 | 4.410 | 1.533 | - | 1.533 | - | - | - | - | - | - |
| (The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.) |  |  |  |  |  |  |  |  |  |  |  |  |
| Initial Spares (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Flyaway Unit Cost (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Unit Cost (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |

## Description:

This line item funds modifications to UH-1N and TH-1H aircraft. The two-engine UH-1N is a light, utility helicopter primarily used for missile site and range support and distinguished visitor airlift support. There are 63 UH-1N aircraft in the inventory. They were built with an estimated service life of 10,000 flight hours and are not service limited due to on-going modifications and upgrades. There are 28 TH-1H aircraft in the inventory. They are used in the helicopter track for USAF Specialized Undergraduate Pilot Training. The TH-1H modernization modification provided a service life of 20 years, the last one was delivered in 2013.

Starting in FY19 the UH-1N Service Life Extension Program (SLEP) was added for a portion of the UH-1N fleet to address aging fleet problems to include: structural repairs, replacement of key systems based on structural fatigue, system obsolescence and a diminishing manufacturing industrial base. Additionally, this effort will address safety requirements to include: Federal Aviation Administration, DoD, engineering mandates and configuration changes. This effort includes funding for the UH-1N System Program Office (e.g., A\&AS, support, travel). The funds budgeted FY $2019-2022$ will enable the SLEP of up to 63 aircraft required to meet mission requirements until the MH-139A helicopter is fielded to replace the UH-1N.

Funding may be used to address Diminishing Manufacturing Sources (DMS) issues.
Funding in this exhibit is contained in PE 0101235F, PE 0401314F, and PE 0804747F.

## Justification:

Primary efforts in FY 2022 include: UH-1N Service Life Extension Program (SLEP), TH-1H low cost modifications, and UH-1N low cost modifications.

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Exhibit P-40, Budget Line Item Justification: PB 2022 Air Force
Date: May 2021

## Appropriation / Budget Activity / Budget Sub Activity:

3010F: Aircraft Procurement, Air Force / BA 05: Modification of Inservice Aircraft BSA 5: Other Aircraft

## P-1 Line Item Number / Title: <br> H06000 / H-60

ID Code (A=Service Ready, B=Not Service Ready):
Program Elements for Code B Items: 0207224F, 0207228F
Other Related Program Elements: 0207224F, 0207228F
Line Item MDAP/MAIS Code: None

| Resource Summary | Prior <br> Years | FY 2020 | FY 2021 | $\text { FY } 2022$ Base | $\begin{gathered} \text { FY } 2022 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \text { FY } 2022 \\ \text { Total } \end{gathered}$ | FY 2023 | FY 2024 | FY 2025 | FY 2026 | To Complete | Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Procurement Quantity (Units in Each) | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Cost (\$ in Millions) | 815.247 | 26.879 | 34.728 | 13.709 | - | 13.709 | - | - | - | - | - | - |
| Less PY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Net Procurement (P-1) (\$ in Millions) | 815.247 | 26.879 | 34.728 | 13.709 | - | 13.709 | - | - | - | - | - | - |
| Plus CY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Total Obligation Authority (\$ in Millions) | 815.247 | 26.879 | 34.728 | 13.709 | - | 13.709 | - | - | - | - | - | - |
| (The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.) |  |  |  |  |  |  |  |  |  |  |  |  |
| Initial Spares (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Flyaway Unit Cost (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Unit Cost (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |

## Description:

This line item funds modifications to the HH-60G helicopter. The HH-60G currently supports the Air Force's core function of Personnel Recovery. The primary mission of the HH-60G is to conduct day, night, and marginal weather Combat Search and Rescue (CSAR) in order to recover isolated personnel in hostile or permissive environments. Potential mission areas include casualty evacuation (CASEVAC), medical evacuation (MEDEVAC), non-combatant evacuation operations, civil search and rescue, international aid, disaster humanitarian relief, and insertion/extraction of combat forces. The Operational Loss Replacement (OLR) Mission Modification program will deliver the final 2 (of 21) additional aircraft, bringing the fleet size up to 83 by 1st QTR FY22. There are currently 100 aircraft as of 1 May 21 with the remaining 19 of 34 aircraft scheduled for retirement in FY21. The HH-60G is in the sunset period.

Funding may be used to address Diminishing Manufacturing Sources (DMS) issues.
Funding for this exhibit is contained in PE 0207228F
 defense missions, domestic emergency responses, and providing military support to civil authorities.

| Secondary Distribution |  | FY 2020 | FY 2021 | $\begin{aligned} & \text { FY } 2022 \\ & \text { Base } \end{aligned}$ | $\begin{aligned} & \text { FY } 2022 \\ & \text { OCO } \end{aligned}$ | $\begin{gathered} \text { FY } 2022 \\ \text { Total } \end{gathered}$ | FY 2023 | FY 2024 | FY 2025 | FY 2026 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| AF | Quantity | - | - | - | - | - | - | - | - | - |
|  | Total Obligation Authority | 26.729 | 33.704 | 13.709 | 0.000 | 13.709 | - | - | - | - |
| AFNG | Quantity | - | - | - | - | - | - | - | - | - |
|  | Total Obligation Authority | 0.150 | - | - | 0.000 | 0.000 | - | - | - | - |
| AFR | Quantity | - | - | - | - | - | - | - | - | - |
|  | Total Obligation Authority | - | 1.024 | - | - | - | - | - | - | - |
| Total: | Quantity | - | - | - | - | - | - | - | - | - |

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| Exhibit P-40, Budget Line Item Justification: PB 2022 Air Force |  |  |  |  |  |  |  | Date: May 2021 |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: <br> 3010F: Aircraft Procurement, Air Force / BA 05: Modification of Inservice Aircraft / <br> BSA 5: Other Aircraft |  |  |  |  | P-1 Line Item Number / Title:H06000 / H-60 |  |  |  |  |  |
| ID Code (A=Service Ready | ot Service Ready: | Program Elements for Code B Items: 0207224F, 0207228F |  |  |  |  | Other Related Program Elements: 0207224F, 0207228F |  |  |  |
| Line Item MDAP/MAIS Code: None |  |  |  |  |  |  |  |  |  |  |
| Secondary Distribution |  | FY 2020 | FY 2021 | $\begin{aligned} & \text { FY } 2022 \\ & \text { Base } \end{aligned}$ | $\begin{aligned} & \text { FY } 2022 \\ & \text { OCO } \end{aligned}$ | $\begin{gathered} \text { FY } 2022 \\ \text { Total } \end{gathered}$ | FY 2023 | FY 2024 | FY 2025 | FY 2026 |
| Secondary Distribution | Total Obligation Authority | 26.879 | 34.728 | 13.709 | 0.000 | 13.709 |  | - | - | - |

Exhibit P-40, Budget Line Item Justification: PB 2022 Air Force
Date: May 2021
Appropriation / Budget Activity / Budget Sub Activity:
3010F: Aircraft Procurement, Air Force / BA 05: Modification of Inservice Aircraft /
BSA 5: Other Aircraft

## P-1 Line Item Number / Title: <br> H06000 / H-60

BSA 5: Other Aircraft

ID Code (A=Service Ready, B=Not Service Ready):
Program Elements for Code B Items: 0207224F, 0207228F
Other Related Program Elements: 0207224F, 0207228F
Line Item MDAP/MAIS Code: None

| Exhibits Schedule |  |  |  |  | Prior Years | FY 2020 | FY 2021 | FY 2022 Base | FY 2022 OCO | FY 2022 Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Exhibit Type | Title* | Subexhibits | $\begin{aligned} & \text { ID } \\ & \text { CD } \end{aligned}$ | MDAP/ MAIS Code | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) |
| P-40a*** | 8564 / Control Display Unit (CDU) (Capability Improvement) |  |  |  | 131.744 | 1 | - 1 - | 1 | - 1 - | - 1 - |
| P-40a*** | 8565 / Navigation System Upgrade (NSU) (Capability Improvement) |  |  |  | 165.492 | - 11.298 | - 11.310 | 1 | - 1 - | - 1 - |
| P-40a*** | 8844 / Multi-function Color Display (Capability Improvement) |  |  |  | 143.301 | - 12.610 | - 14.210 | - 11.600 | - 1 - | 11.600 |
| P-40a*** | 8850 / MODE 5 (Capability Improvement) |  |  |  | 132.262 | - 12.148 | - 13.624 | - 10.310 | 1 | - 10.310 |
| P-40a*** | 8852 / CSAR Avionics/Electrical Upgrade (Capability Improvement) |  |  |  | / 18.037 | 10.324 | - 10.160 | - 1 | - 10.000 | - 10.000 |
| P-40a*** | 8854 / HH-60 OLR Mission Modifications (Other) |  |  |  | - / 452.721 | - / 12.643 | - 11.710 | - 11.570 | - 1 | - 11.570 |
| P-40a*** | 8856 / Block 162 (Service Life Extension) |  |  |  | - 148.420 | - 13.370 | - 10.250 | 1 | - 1 | 1 |
| P-40a*** | 8859 / DVE Sensor (Capability Improvement) |  |  |  | - 126.580 | - 13.186 | - / 18.200 | 1 | - | 1 |
| P-40a*** | 8861 / HH-60 DATALINKS (Capability Improvement) |  |  |  | 127.839 | - 10.550 | - 13.344 | - 1 - | - | 1 |
| P-40a*** | 8862 / HH-60G Communication Suite Control Integration (Capability Improvement) |  |  |  | - 15.490 | 1 - | - 1 | - 1 - | - 1 | 1 |
| P-40a*** | 99999X / Low Cost Modifications (Other) |  |  |  | - 17.772 | - 10.750 | - 10.120 | - 12.429 | 1 | - 12.429 |
| P-3a | 8853 / DEFENSIVE SYSTEM UPGRADE (Capability Improvement) |  | A |  | - / 55.589 | - 10.000 | - /1.800 | - 17.800 | - 10.000 | - 17.800 |
| P-40 | Total Gross/Weapon System Cost |  |  |  | - 1815.247 | - 126.879 | - 134.728 | - /13.709 | - 1 - | - 113.709 |

*** Although this is an Exhibit P-40a item, the actual exhibit is not included since all of the required information for this item is already being shown here.
*Title represents 1) the Number / Title for Items; 2) the Number / Title [DODIC] for Ammunition; and/or 3) the Number / Title (Modification Type) for Modifications.
Note: Totals in this Exhibit P-40 set may not be exact or sum exactly due to rounding.

## Justification:

Primary efforts in FY 2022 include: Multi Function Color Display (MFCD), Mode 5, HH-60 OLR Mission Modifications, Defensive Systems Upgrade, and Low Cost Modifications.

Exhibit P-3a, Individual Modification: PB 2022 Air Force

## Appropriation / Budget Activity / Budget Sub Activity:

 3010F / 05 / 5
## P-1 Line Item Number / Title: H06000 / H-60

Date: May 2021

## Modification Number / Title:

8853 / DEFENSIVE SYSTEM UPGRADE

ID Code (A=Serice Ready, $B=$ Not Service Ready) : A

| MDAP/MAIS Code: |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Resource Summary | Prior Years | FY 2020 | FY 2021 | FY 2022 Base | FY 2022 OCO | FY 2022 Total |
| Procurement Quantity (Units in Each) | - | - | - | - | - | - |
| Gross/Weapon System Cost (\$ in Millions) | 55.589 | 0.000 | 1.800 | 7.800 | 0.000 | 7.800 |
| Less PY Advance Procurement (\$ in Millions) | - | - | - | - | - | - |
| Net Procurement (P-1) (\$ in Millions) | 55.589 | 0.000 | 1.800 | 7.800 | 0.000 | 7.800 |
| Plus CY Advance Procurement (\$ in Millions) | - | - | - | - | - | - |
| Total Obligation Authority (\$ in Millions) | 55.589 | 0.000 | 1.800 | 7.800 | 0.000 | 7.800 |
| (The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.) |  |  |  |  |  |  |
| Initial Spares (\$ in Millions) | - | - | - | - | - | - |
| Gross/Weapon System Unit Cost (\$ in Millions) | - | - | - | - | - | - |

## Description:

Defensive Systems Upgrade is a continuing effort to provide the HH-60G Pave Hawk with the ability to detect, deter, suppress or evade ever-evolving enemy threat systems.

 procured and installed in 97 aircraft.



 maneuver to avoid the threat as needed.
 (OIR), and future operations.
 Support (ICS) for the 32 aircraft equipped with the Missile Warning and Countermeasure systems.

Milestone/Development Status
RDT\&E funds are not a component of this effort.

| Secondary Distribution |  | FY 2020 | FY 2021 | $\begin{gathered} \text { FY } 2022 \\ \text { Base } \end{gathered}$ | $\begin{gathered} \text { FY } 2022 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \text { FY } 2022 \\ \text { Total } \end{gathered}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| AF | Quantity | - | - | - | - | - |
|  | Total Obligation Authority | 0.000 | 1.800 | 7.800 | - | 7.800 |
| Total: | Quantity | - | - | - | - | - |

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| Exhibit P-3a, Individual Modification: PB 2022 Air Force |  |  |  | Date: May 2021 <br> Modification Number / Title: <br> 8853 / DEFENSIVE SYSTEM UPGRADE |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5 | P-1 Line Item Number / Title: H06000 / H-60 |  |  |  |  |
| ID Code (A=Service Ready, B=Not Service Ready) : A |  | MDAP/MAIS Code: |  |  |  |
| Secondary Distribution | FY 2020 | FY 2021 | $\begin{gathered} \text { FY } 2022 \\ \text { Base } \end{gathered}$ | $\begin{gathered} \hline \text { FY } 2022 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \hline \text { FY } 2022 \\ \text { Total } \end{gathered}$ |
| Secondary Distribution Total Obligation Authority | 0.000 | 1.800 | 7.800 | $0 \quad 0.000$ | 7.800 |


| Exhibit P-3a, Individual Modification: PB 2022 Air Force |  |  |  |  | Date: May 2021 |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5 |  | P-1 Line Item Number / Title: H06000 / H-60 |  |  | Modification Number / Title: <br> 8853 / DEFENSIVE SYSTEM UPGRADE |  |
| ID Code (A=Service Ready, B=Not Service Ready) : A |  |  | MDAP/MAIS Code: |  |  |  |
| Models of Systems Affected: HH-60G | Modification Type: Capability Improvement |  |  | Related RDT\&E PEs: 0207224F |  |  |
|  | Prior Years | FY 2020 | FY 2021 | FY 2022 Base | FY 2022 OCO | FY 2022 Total |
|  | Qty (Each) I Total Cost (\$ M) | Qty (Each) I Total Cost (\$ M) | Qty (Each) I Total Cost (\$ M) | Qty (Each) I Total Cost (\$ M) | Qty (Each) I Total Cost (\$ M) | Qty (Each) I Total Cost (\$ M) |
| Procurement |  |  |  |  |  |  |
| Modification Item 1 of 2: AAR-47 kit |  |  |  |  |  |  |
| B Kits |  |  |  |  |  |  |
| Recurring |  |  |  |  |  |  |
| AAR-47 kit:EQUIPMENT Group B (Active) | 65/9.783 | - 1 - | - 1- | - 1- | - 1 - | - 1 |
| AAR-47 kit:EQUIPMENT Group B (Guard) | $17 / 2.482$ | 1 | 1 | - 1 | 1 - | - 1 |
| AAR-47 kit:EQUIPMENT Group B (Reserve) | 15/2.190 | 1 | 1 | - 1 | 1 - | - 1 |
| Subtotal: Recurring | - /14.455 | - 1 - | - 1 - | - 1 - | - 1 - | - 1 - |
| Subtotal: AAR-47 kit | - /14.455 | - 1- | - 1 - | - / - | - 1 - | - 1 - |
| Modification Item 2 of 2: Missile Warning and Counter Measure Kit |  |  |  |  |  |  |
| A Kits |  |  |  |  |  |  |
| Recurring |  |  |  |  |  |  |
| Missile Warning and Counter Measure Kit:INSTALL KITS Group A (Active) | $32 / 6.256$ | - 1 - | - 1- | - 1- | - 1- | - 1- |
| Subtotal: Recurring | - 16.256 | - / - | - / - | - 1 | - / - | - / - |
| B Kits |  |  |  |  |  |  |
| Recurring |  |  |  |  |  |  |
| Missile Warning and Counter Measure Kit:EQUIPMENT Group B (Active) | $32 / 24.000$ | 1 - | - 1- | - 1- | - 1- | - 1- |
| Subtotal: Recurring | - 124.000 | - 1 - | - / - | - 1- | - / - | - / - |
| Subtotal: Missile Warning and Counter Measure Kit | - /30.256 | - 1 - | - 1 - | - 1 - | - 1 - | - 1 - |
| Subtotal: Procurement, All Modification Items | - /44.711 | - / - | - 1 | - $/$ | - / - | - / - |
| Support (All Modification Items) |  |  |  |  |  |  |
| A\&AS | - 10.144 | - 1 - | - 1- | - 10.300 | - 1- | - 10.300 |
| ICS-Labor | - 14.000 | 1 - | - 1 - | - 17.500 | - 1 - | - 17.500 |
| ICS-Material | - 14.494 | 1 - | - 1 - | - 1 - | - 1 - | - 1- |
| PMA - Other Gov't Costs | - 10.080 | 1 - | - 1 - | - 1- | - 1- | - 1- |
| Subtotal: Support | - $/ 8.718$ | - 1 - | - 1 - | - 17.800 | - 1 - | - 17.800 |
| Installation |  |  |  |  |  |  |
| Modification Item 2 of 2: Missile Warning and Counter Measure Kit | 6/2.160 | $10 / 0.000$ | $16 / 1.800$ | - 1- | - 1 - | - 1- |
| Subtotal: Installation | 6/2.160 | 10/ - | 16/1.800 | - / - | - / - | - / - |

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Appropriation / Budget Activity / Budget Sub Activity:
3010F: Aircraft Procurement, Air Force / BA 05: Modification of Inservice Aircraft /
BSA 5: Other Aircraft

## P-1 Line Item Number / Title: <br> HAWK00 / RQ-4 Mods

## BSA 5: Other Aircraft

| ID Code (A=Service Ready, B=Not Service Ready): | Program Elements for Code B Items: 0305220F | Other Related Program Elements: 0305220F |
| :--- | :--- | :--- | :--- |

Line Item MDAP/MAIS Code: 252

| Resource Summary | Prior Years | FY 2020 | FY 2021 | $\text { FY } 2022$ <br> Base | $\begin{gathered} \text { FY } 2022 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \text { FY } 2022 \\ \text { Total } \end{gathered}$ | FY 2023 | FY 2024 | FY 2025 | FY 2026 | To Complete | Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Procurement Quantity (Units in Each) | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Cost (\$ in Millions) | 629.864 | 1.704 | 3.350 | 3.205 | - | 3.205 | - | - | - | - | - | - |
| Less PY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Net Procurement (P-1) (\$ in Millions) | 629.864 | 1.704 | 3.350 | 3.205 | - | 3.205 | - | - | - | - | - | - |
| Plus CY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Total Obligation Authority (\$ in Millions) | 629.864 | 1.704 | 3.350 | 3.205 | - | 3.205 | - | - | - | - | - | - |
| (The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.) |  |  |  |  |  |  |  |  |  |  |  |  |
| Initial Spares (\$ in Millions) | 2.160 | 0.746 | - | - | - | - | - | - | - | - | - | - |
| Flyaway Unit Cost (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Unit Cost (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |

## Description:

 Block 30 closeout actions.



 Triton, and other RPA weapon systems.
 years with an average service life remaining of 15 years through 2034. The Program Office is exploring options to extend the service life.





 ground equipment, tech orders, spares, support equipment, and training to enable operation of the RQ-4 System.
 alleviate DMS issues for which there are not sufficient Government spares and/or the ability to repair organically or commercially is not viable.

## Appropriation / Budget Activity / Budget Sub Activity: <br> 3010F: Aircraft Procurement, Air Force / BA 05: Modification of Inservice Aircraft /

 BSA 5: Other AircraftID Code (A=Service Ready, B=Not Service Ready):
Program Elements for Code B Items: 0305220F
Other Related Program Elements: 0305220F

## Line Item MDAP/MAIS Code: 252

The RQ-4 system will be continually modified to maintain pace with evolving threats and increasing capabilities included in modernization efforts. FY22 funds will support modification efforts to include aircraft mods, included aircraft sensor mods, trainers, on-board data storage, low cost modifications, retrofit support planning, change requests, structural modifications required to bring the Global Hawk aircraft up to current configurations, support equipment, other modification efforts to upgrade the Global Hawk fleet, as well as technology insertion activities in support of Better Buying Power initiatives.

Funding for this exhibit is contained in PE 0305220F.

Exhibit P-40, Budget Line Item Justification: PB 2022 Air Force
Appropriation / Budget Activity / Budget Sub Activity:
3010F: Aircraft Procurement, Air Force / BA 05: Modification of Inservice Aircraft /
BSA 5: Other Aircraft

## P-1 Line Item Number / Title: <br> HAWK00 / RQ-4 Mods

BSA 5: Other Aircraft

| ID Code (A=Service Ready, B=Not Service Ready): |  | Program Elements for Code B Items: 0305220F |  |  |  |  | Other Related Program Elements: 0305220F |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Line Item MDAP/MAIS Code: 252 |  |  |  |  |  |  |  |  |  |  |
| Exhibits Schedule |  |  |  |  | Prior Years | FY 2020 | FY 2021 | FY 2022 Base | FY 2022 OCO | FY 2022 Total |
| Exhibit Type | Title* | Subexhibits | $\begin{array}{\|l\|l\|} \hline \text { ID } \\ \text { CD } \end{array}$ | MDAP/ MAIS Code | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) |
| P-3a | 470001 / GH Aircraft Mods (Capability Improvement) |  | B |  | - 1532.794 | / 1.704 | - 13.350 | - 13.205 | - 10.000 | - 13.205 |
| P-3a | 470003 / GH Ground Station Mods (Capability Improvement) |  | A |  | - / 15.523 | - 1 - | - 1 - | - 1 | - 1 | - 1 |
| P-3a | 470009 / ASIP Increment I (Capability Improvement) |  | B |  | - 137.154 | - 10.000 | - 10.000 | - 10.000 | - 10.000 | 10.000 |
| P-3a | 470010 / SAR (Capability Improvement) |  | A |  | - 10.910 | - 1 - | - 1 - | 1 | 1 | - 1 |
| P-3a | 470011 / ASIP Install/Calibration (Capability Improvement) |  | A |  | - 14.834 | - 1 - | - 1 - | - 1 - | - 1 - | - 1 - |
| P-3a | 470012 / MODE 5/ADS-B (Capability Improvement) |  | B |  | - 16.267 | - 10.000 | - 10.000 | - 1 - | - 1 - | - 1 - |
| P-3a | 470013 / Sensor Enhancements (Capability Improvement) |  | A |  | - 129.382 | 10.000 | - 10.000 | - 10.000 | - 10.000 | - 10.000 |
| P-3a | 470019 / Communication Interoperability/Enhancements (Capability Improvement) |  | A |  | - 13.000 | - 10.000 | - 10.000 | - 10.000 | - 10.000 | - 10.000 |
| P-40 | Total Gross/Weapon System Cost |  |  |  | - $/ 629.864$ | - 11.704 | - 13.350 | - 13.205 | 1 | - 13.205 |

*Title represents 1) the Number / Title for Items; 2) the Number / Title [DODIC] for Ammunition; and/or 3) the Number / Title (Modification Type) for Modifications.
Note: Totals in this Exhibit P-40 set may not be exact or sum exactly due to rounding

## Justification:

The actions identified are minimal expected to support operations for remaining system life (i.e. comms work) and close out work already begun in prior years.

| Exhibit P-3a, Individual Modification: PB 2022 Air Force |  |  |  |  | Date: May 2021 |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5 | P-1 Line Item Number / Title: HAWK00 / RQ-4 Mods |  |  |  | Modification Number / Title: 470001 / GH Aircraft Mods |  |
| ID Code (A=Service Ready, $\mathrm{B}=$ Not Service Ready) : B | MDAP/MAIS Code: |  |  |  |  |  |
| Resource Summary | Prior Years | FY 2020 | FY 2021 | FY 2022 Base | FY 2022 OCO | FY 2022 Total |
| Procurement Quantity (Units in Each) | - | - | - | - | - | - |
| Gross/Weapon System Cost (\$ in Millions) | 532.794 | 1.704 | 3.350 | 3.205 | 0.000 | 3.205 |
| Less PY Advance Procurement (\$ in Millions) | - | - | - | - | - | - |
| Net Procurement (P-1) (\$ in Millions) | 532.794 | 1.704 | 3.350 | 3.205 | 0.000 | 3.205 |
| Plus CY Advance Procurement (\$ in Millions) | - | - | - | - | - | - |
| Total Obligation Authority (\$ in Millions) | 532.794 | 1.704 | 3.350 | 3.205 | 0.000 | 3.205 |
| (The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.) |  |  |  |  |  |  |
| Initial Spares (\$ in Millions) | 0.091 | 0.746 | 0.000 | 0.000 | - | 0.000 |
| Gross/Weapon System Unit Cost (\$ in Millions) | - | - | - | - | - | - |

## Description:

USAF plans to begin divestment of the Block 20 aircraft in FY21 and the Block 30 aircraft in FY22. To maximize value to the USAF and DoD, efforts will be pivoted to focus on supporting the Block 40 fleet and Block 30 closeout actions.

The Global Hawk System provides high altitude, deep look, long-endurance intelligence, surveillance, and reconnaissance (ISR) capability that complements space and other airborne collectors during peacetime, crisis, and war-fighting scenarios. The aircraft is an autonomous, high altitude, long-endurance, unmanned aircraft system (UAS) and must maintain interoperability with government and commercial communications systems and exploitation nodes within the AF and other DoD systems. The Global Hawk program will incorporate applicable synergies with other platforms, including the U.S. Navy's Triton, and other remotely piloted aircraft (RPA) weapon systems.

Planned modifications include aircraft, payload, ground station/communications, and other retrofits to incorporate/modify capabilities and maintain interoperability across the RQ-4 mission area for expected service life. Air Vehicle modifications are written to the Line Replaceable Unit (LRU) level, not the overarching Total Aircraft Breakdown.

This Mod to increase reliability and mission capability will cover change requests, retrofit planning, Diminishing Manufacturing Source (DMS)and Reliability and Maintainability (R\&M) retrofits, Integrated Functional Capability (IFC) retrofits, trainers, contested environment initiatives, inflight mission planning updates, test support, support equipment, studies, other government costs, and program support. This Mod may be used to cover the efforts required to bring the early production aircraft up to the current operational configuration.

Requirement source: Air Combat Command.
Milestone/Development Status
The RQ-4 program will continue to develop, test and implement aircraft, sensor, communications and ground station performance, interoperability, sustainability and safety enhancements and solutions for implementation on the RQ-4 platform and ground based systems in an effort to maintain and improve aircraft and payload availability effectiveness and reduce life-cycle costs.


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| Exhibit P-3a, Individual Modification: PB 2022 Air Force |  |  |  |  | Date: May 2021 |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity 3010F / 05 / 5 | P-1 Line Item Number / Title: HAWK00 / RQ-4 Mods |  |  |  | Modification Number / Title: 470003 / GH Ground Station Mods |  |
| ID Code (A=Service Ready, B=Not Service Ready) : A | MDAP/MAIS Code: |  |  |  |  |  |
| Resource Summary | Prior Years | FY 2020 | FY 2021 | FY 2022 Base | FY 2022 OCO | FY 2022 Total |
| Procurement Quantity (Units in Each) | - | - | - | - | - | - |
| Gross/Weapon System Cost (\$ in Millions) | 15.523 | - | - | - | - | - |
| Less PY Advance Procurement (\$ in Millions) | - | - | - | - | - | - |
| Net Procurement (P-1) (\$ in Millions) | 15.523 | - | - | - | - | - |
| Plus CY Advance Procurement (\$ in Millions) | - | - | - | - | - | - |
| Total Obligation Authority (\$ in Millions) | 15.523 | - | - | - | - | $\bullet$ |
| (The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.) |  |  |  |  |  |  |
| Initial Spares (\$ in Millions) | - | - | - | 0.000 | - | 0.000 |
| Gross/Weapon System Unit Cost (\$ in Millions) | - | - | - | - | - | - |

## Description:

USAF plans to begin divestment of the Block 20 aircraft in FY21 and the Block 30 aircraft in FY22. To maximize value to the USAF and DoD, efforts will be pivoted to focus on supporting the Block 40 fleet and Block 30 closeout actions.

Mod 470003 included small modifications for the Global Hawk Ground Segment system.
Any small modifications will be addressed in the Low Cost Mod line (99999X) or other Mod line.
Milestone/Development Status
Development concluded in prior years.

| Exhibit P-3a, Individual Modification: PB 2022 Air Force |  |  |  |  | Date: May 2021 |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5 |  | P-1 Line Item Number / Title: HAWK00 / RQ-4 Mods |  |  | Modification Number / Title: 470003 / GH Ground Station Mods |  |
| ID Code (A=Service Ready, B=Not Service Ready) : A |  |  | MDAP/MAIS Code: |  |  |  |
| Models of Systems Affected: RQ-4 |  Modification Type: Capability Improvement  <br> Prior Years FY 2020 FY 2021 |  |  | Related RDT\&E PEs: 0305220F |  |  |
|  |  |  |  | FY 2022 Base | FY 2022 OCO | FY 2022 Total |
| Financial Plan | $\begin{gathered} \text { Qty (Each) I } \\ \text { Total Cost }(\$ M) \\ \hline \end{gathered}$ | $\begin{gathered} \text { Qty (Each) I } \\ \text { Total Cost }(\$ M) \\ \hline \end{gathered}$ | $\begin{gathered} \text { Qty (Each) I } \\ \text { Total Cost }(\$ M) \\ \hline \end{gathered}$ | $\begin{gathered} \text { Qty (Each) I } \\ \text { Total Cost }(\$ M) \\ \hline \end{gathered}$ | $\begin{gathered} \text { Qty (Each) I } \\ \text { Total Cost }(\$ \mathrm{M}) \\ \hline \end{gathered}$ | $\begin{gathered} \text { Qty (Each) I } \\ \text { Total Cost }(\$ M) \\ \hline \end{gathered}$ |
| Procurement |  |  |  |  |  |  |
| Modification Item 1 of 1: Ground Station Mods |  |  |  |  |  |  |
| B Kits |  |  |  |  |  |  |
| Recurring |  |  |  |  |  |  |
| Ground Station Mods:EQUIPMENT Group B (Active) | 19/14.100 | - 1- | - 1- | - 1- | - 1- | - 1 - |
| Subtotal: Recurring | - /14.100 | - 1- | - / - | - 1- | - 1- | - 1 - |
| Subtotal: Ground Station Mods | - /14.100 | - 1 | - 1 - | - 1 | - 1 - | - 1. |
| Subtotal: Procurement, All Modification Items | - /14.100 | - 1- | - 1- | - 1- | - 1- | - 1- |
| Support (All Modification Items) |  |  |  |  |  |  |
| OTHER GOVT | - 10.523 | - 1. | - 1 - | - 1. | - 1. | - 1 - |
| Subtotal: Support | - 10.523 | - 1 - | - 1. | - 1 - | - 1 - | - 1. |
| Installation |  |  |  |  |  |  |
| Modification Item 1 of 1: Ground Station Mods | 19/0.900 | - 1 - | 1 - | - 1 - | - 1 - | - 1 - |
| Subtotal: Installation | 19/0.900 | - 1- | - 1- | - 1- | - 1- | - 1- |
| Total |  |  |  |  |  |  |
| Total Cost (Procurement + Support + Installation) | 15.523 | - | $\cdot$ | $\cdot$ | $\cdot$ | - |

## UNCLASSIFIED



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| Exhibit P-3a, Individual Modification: PB 2022 Air Force |  |  |  |  | Date: May 2021 |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity 3010F / 05 / 5 | P-1 Line Item Number / Title: HAWK00 / RQ-4 Mods |  |  |  | Modification Number / Title: 470009 / ASIP Increment I |  |
| ID Code (A=Service Ready, B=Not Service Ready) : B | MDAP/MAIS Code: |  |  |  |  |  |
| Resource Summary | Prior Years | FY 2020 | FY 2021 | FY 2022 Base | FY 2022 OCO | FY 2022 Total |
| Procurement Quantity (Units in Each) | - | - | - | - | - | - |
| Gross/Weapon System Cost (\$ in Millions) | 37.154 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| Less PY Advance Procurement (\$ in Millions) | - | - | - | - | - | - |
| Net Procurement (P-1) (\$ in Millions) | 37.154 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| Plus CY Advance Procurement (\$ in Millions) | - | - | - | - | - | - |
| Total Obligation Authority (\$ in Millions) | 37.154 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| (The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.) |  |  |  |  |  |  |
| Initial Spares (\$ in Millions) | - | - | - | - | - | - |
| Gross/Weapon System Unit Cost (\$ in Millions) | - | - | - | - | - | - |

## Description:

USAF plans to begin divestment of the Block 20 aircraft in FY21 and the Block 30 aircraft in FY22. To maximize value to the USAF and DoD, efforts will be pivoted to focus on supporting the Block 40 fleet and Block 30 closeout actions.

Airborne Signals Intelligence Payload (ASIP) Increment 1 incorporated additional signals and integrated advanced collection algorithms providing increased mission capability. It was a follow-on effort to the ASIP baseline program in compliance with SIGINT Capability Working Group priorities. The retrofit task implemented using the rotatable spares concept.

Milestone/Development Status
Development concluded in prior years.


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| Exhibit P-3a, Individual Modification: PB 2022 Air Force |  |  |  |  | Date: May 2021 |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5 | P-1 Line Item Number / Title: HAWK00 / RQ-4 Mods |  |  |  | Modification Number / Title: 470010 / SAR |  |
| ID Code (A=Service Ready, B=Not Service Ready) : A | MDAP/MAIS Code: |  |  |  |  |  |
| Resource Summary | Prior Years | FY 2020 | FY 2021 | FY 2022 Base | FY 2022 OCO | FY 2022 Total |
| Procurement Quantity (Units in Each) | - | - | - |  | - | - |
| Gross/Weapon System Cost (\$ in Millions) | 0.910 | - | - |  | - | - |
| Less PY Advance Procurement (\$ in Millions) | - | - | - |  | - | - |
| Net Procurement (P-1) (\$ in Millions) | 0.910 | - | - |  | - | - |
| Plus CY Advance Procurement (\$ in Millions) | - | - | - |  | - | - |
| Total Obligation Authority (\$ in Millions) | 0.910 | - | - |  | - | - |
| (The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.) |  |  |  |  |  |  |
| Initial Spares (\$ in Millions) | - | - | - |  | - | - |
| Gross/Weapon System Unit Cost (\$ in Millions) | - | - | - |  | - | - |

## Description:

USAF plans to begin divestment of the Block 20 aircraft in FY21 and the Block 30 aircraft in FY22. To maximize value to the USAF and DoD, efforts will be pivoted to focus on supporting the Block 40 fleet and Block 30 closeout actions.

Synthetic Aperture Radar (SAR) incorporates SAR selectable Point Image Mode, for Detected and Complex Imagery into the Enhanced Integrated Sensor Suite (EISS). Software was developed and incorporated into fielded Global Hawk Integrated Functional Capability (IFC) 4.0.1.1. This modification was implemented on all Block 20 and Block 30 aircraft to include necessary revisions to the technical documentation. The major effort for this modification was updating the Phase Distortion Tables (PDT) of the Enhanced Receiver Exciter Controller (EREC).

Milestone/Development Status
Development concluded in prior years.

| Exhibit P-3a, Individual Modification: PB 2022 Air Force |  |  |  |  | Date: May 2021 |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5 |  | P-1 Line Item Number / Title: HAWK00 / RQ-4 Mods |  |  | Modification Number / Title: 470010 / SAR |  |
| ID Code (A=Service Ready, B=Not Service Ready) : A |  |  | MDAP/MAIS Code: |  |  |  |
| Models of Systems Affected: RQ-4 | Modification Type: Capability Improvement |  |  | Related RDT\&E PEs: 0305220F |  |  |
|  |  |  |  | FY 2022 Base | FY 2022 OCO | FY 2022 Total |
| Financial Plan | $\begin{gathered} \text { Qty (Each) I } \\ \text { Total Cost (\$ M) } \end{gathered}$ | $\begin{gathered} \text { Qty (Each) I } \\ \text { Total Cost (\$ M) } \end{gathered}$ | $\begin{gathered} \text { Qty (Each) I } \\ \text { Total Cost (\$ M) } \end{gathered}$ | $\begin{gathered} \text { Qty (Each) I } \\ \text { Total Cost (\$ M) } \end{gathered}$ | $\begin{gathered} \text { Qty (Each) I } \\ \text { Total Cost (\$M) } \end{gathered}$ | $\begin{gathered} \text { Qty (Each) I } \\ \text { Total Cost (\$ M) } \end{gathered}$ |
| Procurement |  |  |  |  |  |  |
| Modification Item 1 of 1: Group B Calibration/Installation |  |  |  |  |  |  |
| B Kits |  |  |  |  |  |  |
| Recurring |  |  |  |  |  |  |
| Group B Calibration/Installation:EQUIPMENT Group B (Active) | 44/0.910 | - 1- | - 1- | - 1- | - 1- | 1. |
| Subtotal: Recurring | - 10.910 | - 1 - | - 1- | - 1- | - 1- | - 1- |
| Subtotal: Group B Calibration/Installation | - 10.910 | - 1. | - 1- | - 1- | - 1- | - 1- |
| Subtotal: Procurement, All Modification Items | - 10.910 | - 1 | - 1 - | - 1 - | - / - | 1. |
| Installation |  |  |  |  |  |  |
| Modification Item 1 of 1: Group B Calibration/Installation | 44/0.000 | - 1- | - 1- | - 1 - | - 1 - | $1-$ |
| Subtotal: Installation | 44 - | - 1- | - 1 - | - 1- | - 1- | - 1- |
| Total |  |  |  |  |  |  |
| Total Cost (Procurement + Support + Installation) | 0.910 | - | - | - | - | - |

## UNCLASSIFIED



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| Exhibit P-3a, Individual Modification: PB 2022 Air Force |  |  |  |  | Date: May 2021 |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5 | P-1 Line Item Number / Title: HAWK00 / RQ-4 Mods |  |  |  | Modification Number / Title: 470011 / ASIP Install/Calibration |  |
| ID Code (A=Service Ready, B=Not Service Ready) : A | MDAP/MAIS Code: |  |  |  |  |  |
| Resource Summary | Prior Years | FY 2020 | FY 2021 | FY 2022 Base | FY 2022 OCO | FY 2022 Total |
| Procurement Quantity (Units in Each) | - | - | - |  | - | - |
| Gross/Weapon System Cost (\$ in Millions) | 4.834 | - | - |  | - | - |
| Less PY Advance Procurement (\$ in Millions) | - | - | - |  | - | - |
| Net Procurement (P-1) (\$ in Millions) | 4.834 | - | - |  | - | - |
| Plus CY Advance Procurement (\$ in Millions) | - | - | - |  | - | - |
| Total Obligation Authority (\$ in Millions) | 4.834 | - | - |  | - | - |
| (The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.) |  |  |  |  |  |  |
| Initial Spares (\$ in Millions) | - | - | - |  | - | - |
| Gross/Weapon System Unit Cost (\$ in Millions) | - | - | - |  | - | - |

## Description:

USAF plans to begin divestment of the Block 20 aircraft in FY21 and the Block 30 aircraft in FY22. To maximize value to the USAF and DoD, efforts will be pivoted to focus on supporting the Block 40 fleet and Block 30 closeout actions.

The program planned to convert all Block 301 air vehicles into Block 30M (Airborne Signals Intelligence Payload (ASIP) capable) air vehicles to meet Air Combat Command (ACC) requirements. The original retrofit plan was to convert eleven (11) Block 301 air vehicles into Block 30M capable air vehicles; however, this effort was halted by PB13. As a result, only three ( 3 ) of the eleven (11) Block 30ls were retrofitted. Subsequently, the remaining Block 30ls were to be retrofitted to Block 30M cabable in a subsequent modification program. The funding was utilized to install and calibrate the ASIP units in the retrofitted Block 30M aircraft.

Milestone/Development Status
Development concluded in prior years.

| Exhibit P-3a, Individual Modification: PB 2022 Air Force |  |  |  |  | Date: May 2021 |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5 |  | P-1 Line Item Number / Title: HAWK00 / RQ-4 Mods |  |  | Modification Number / Title: 470011 / ASIP Install/Calibration |  |
| ID Code (A=Service Ready, $\mathrm{B}=$ Not Service Ready) : A |  |  | MDAP/MAIS Code: |  |  |  |
| Models of Systems Affected: RQ-4 | Modification Type: Capability Improvement |  |  | Related RDT\&E PEs: 0305220F |  |  |
|  | Prior Years | FY 2020 | FY 2021 | FY 2022 Base | FY 2022 OCO | FY 2022 Total |
| Financial Plan | $\begin{gathered} \text { Qty (Each) I } \\ \text { Total Cost (\$ M) } \end{gathered}$ | $\begin{gathered} \text { Qty (Each) I } \\ \text { Total Cost (\$M) } \end{gathered}$ | $\begin{gathered} \text { Qty (Each) I } \\ \text { Total Cost (\$ M) } \end{gathered}$ | $\begin{gathered} \text { Qty (Each)I } \\ \text { Total Cost (\$M) } \end{gathered}$ | $\begin{gathered} \text { Qty (Each) I } \\ \text { Total Cost (\$ M) } \end{gathered}$ | $\begin{gathered} \text { Qty (Each) I } \\ \text { Total Cost (\$M) } \end{gathered}$ |
| Procurement |  |  |  |  |  |  |
| Modification Item 1 of 1: Grp A Install Kits (2) |  |  |  |  |  |  |
| A Kits |  |  |  |  |  |  |
| Recurring |  |  |  |  |  |  |
| Grp A Install Kits:INSTALL KITS Group A (Active) | 6/0.920 | - 1- | - 1 - | - 1- | - 1- | - 1- |
| Subtotal: Recurring | - 10.920 | - 1- | - 1- | - 1 - | - 1- | - 1. |
| Subtotal: Grp A Install Kits (2) | - 10.920 | - 1- | - 1- | - 1 - | - 1- | - 1- |
| Subtotal: Procurement, All Modification Items | - 10.920 | - 1 | - 1. | - 1 | - 1 - | - 1 - |
| Support (All Modification Items) |  |  |  |  |  |  |
| Change Orders | - 12.955 | - 1. | - 1 - | - 1 - | - 1 - | - 1. |
| Subtotal: Support | - $/ 2.955$ | - 1 | - 1- | - 1 | - 1- | - 1- |
| Installation |  |  |  |  |  |  |
| Modification Item 1 of 1: Grp A Install Kits (2) | 6/0.959 | - 1 - | - 1 - | - 1 - | - 1- | - $1-$ |
| Subtotal: Installation | 6/0.959 | -1. | - 1- | - 1 - | -1. | -1. |
| Total |  |  |  |  |  |  |
| Total Cost (Procurement + Support + Installation) | 4.834 | - | - | - | - | - |

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| Exhibit P-3a, Individual Modification: PB 2022 Air Force ${ }^{\text {a }}$ Dater |  |  |  |  | Date: May 2021 |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity 3010F / 05 / 5 | P-1 Line Item Number / Title: HAWK00 / RQ-4 Mods |  |  |  | Modification Number / Title: 470012 / MODE 5/ADS-B |  |
| ID Code (A=Service Ready, B=Not Service Ready) : B | MDAP/MAIS Code: |  |  |  |  |  |
| Resource Summary | Prior Years | FY 2020 | FY 2021 | FY 2022 Base | FY 2022 OCO | FY 2022 Total |
| Procurement Quantity (Units in Each) | - | - | - |  | - | - |
| Gross/Weapon System Cost (\$ in Millions) | 6.267 | 0.000 | 0.000 |  | - | - |
| Less PY Advance Procurement (\$ in Millions) | - | - | - |  | - | - |
| Net Procurement (P-1) (\$ in Millions) | 6.267 | 0.000 | 0.000 |  | - | - |
| Plus CY Advance Procurement (\$ in Millions) | - | - | - |  | - | - |
| Total Obligation Authority (\$ in Millions) | 6.267 | 0.000 | 0.000 |  | - | - |
| (The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.) |  |  |  |  |  |  |
| Initial Spares (\$ in Millions) | - | - | - |  | - | - |
| Gross/Weapon System Unit Cost (\$ in Millions) | - | - | - |  | - | - |

## Description:

USAF plans to begin divestment of the Block 20 aircraft in FY21 and the Block 30 aircraft in FY22. To maximize value to the USAF and DoD, efforts will be pivoted to focus on supporting the Block 40 fleet and Block 30 closeout actions.

Mode 5 is an enhancement to the legacy Mode 4 Identification, Friend or Foe (IFF) which has been in use since the mid-1950s for military identification. Mode 5 provides four graduated levels of data transmission with enhanced security protection and technology advances and includes question and answer identification/classified interrogation, position reporting capability, selective interrogation, and data exchange capability.

Automatic Dependent Surveillance-Broadcast (ADS-B) is a function for air vehicles that periodically transmits its state vector (positions/velocities) and other information to air traffic controllers. This allows air traffic controllers to know where the platform is as it enters a specific air space. Mode S, which gives more detailed information on the identity of aircraft to the air traffic controller, is also being implemented with this upgrade as part of the IFF hardware. ADS-B supports improved use of airspace and enhanced safety, and is required for use in the European theater by the International Civil Aviation Organization (European FAA). The Federal Aviation Administration (FAA) and DoD have mandated implementation by December 2024.

This program will retrofit fielded aircraft with Mode 5 by the end of Fiscal Year 2022.
Milestone/Development Status
Contract was awarded Mar 2016. Development is underway with a projected 38 -month period of performance. The development will progress to a stage where the Contractor will be able to release documentation to commence kitting for retrofit. Therefore, certain retrofit activities began prior to full completion of development effort.

| Exhibit P-3a, Individual Modification: PB 2022 Air Force |  |  |  |  | Date: May 2021 |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5 |  | P-1 Line Item Number / Title: HAWK00 / RQ-4 Mods |  |  | Modification Number / Title: 470012 / MODE 5/ADS-B |  |
| ID Code (A=Service Ready, B=Not Service Ready) : B |  |  | MDAP/MAIS Code: |  |  |  |
| Models of Systems Affected: RQ-4 | Modification Type: Capability Improvement |  |  | Related RDT\&E PEs: 0305220F |  |  |
|  |  |  |  | FY 2022 Base | FY 2022 OCO | FY 2022 Total |
| Financial Plan | $\begin{gathered} \text { Qty (Each) I } \\ \text { Total Cost }(\$ M) \\ \hline \end{gathered}$ | $\begin{gathered} \text { Qty (Each)I } \\ \text { Total Cost (\$M) } \\ \hline \end{gathered}$ | $\begin{gathered} \text { Qty (Each) I } \\ \text { Total Cost }(\$ M) \\ \hline \end{gathered}$ | $\begin{gathered} \text { Qty (Each)I } \\ \text { Total Cost (\$M) } \\ \hline \end{gathered}$ | $\begin{gathered} \text { Qty (Each) I } \\ \text { Total Cost (\$M) } \\ \hline \end{gathered}$ | $\begin{gathered} \text { Qty (Each) I } \\ \text { Total Cost }(\$ M) \\ \hline \end{gathered}$ |
| RDT\&E PE \# |  |  |  |  |  |  |
| 0305220F | - 12.303 | - 1 - | - 1 - | - 1- | - 1- | - 1- |
| Procurement |  |  |  |  |  |  |
| Modification Item 1 of 1: Grp B Equipment |  |  |  |  |  |  |
| B Kits |  |  |  |  |  |  |
| Recurring |  |  |  |  |  |  |
| Grp B Equipment:EQUIPMENT Group B (Active) | $34 / 5.327$ | - 1- | - 1- | - 1- | - 1- | - 1- |
| Subtotal: Recurring | - 15.327 | - 1- | - 1- | - 1- | - 1- | - 1 - |
| Subtotal: Grp B Equipment | - 15.327 | - 1- | - 1- | - 1- | - 1- | - 1- |
| Subtotal: Procurement, All Modification Items | - /5.327 | 1 - | - 1 - | - 1 - | - / - | - $1-$ |
| Installation |  |  |  |  |  |  |
| Modification Item 1 of 1: Grp B Equipment | $34 / 0.940$ | - 1- | - 1- | - 1 - | - 1 - | - 1- |
| Subtotal: Installation | $34 / 0.940$ | - 1- | - 1- | - $1-$ | - 1 - | - 1- |
| Total |  |  |  |  |  |  |
| Total Cost (Procurement + Support + Installation) | 6.267 | 0.000 | 0.000 | $\cdot$ | $\cdot$ | - |

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| Exhibit P-3a, Individual Modification: PB 2022 Air Force |  |  |  |  | Date: May 2021 |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity 3010F / 05 / 5 | P-1 Line Item Number / Title: HAWK00 / RQ-4 Mods |  |  |  | Modification Number / Title: 470013 / Sensor Enhancements |  |
| ID Code (A=Service Ready, B=Not Service Ready) : A | MDAP/MAIS Code: |  |  |  |  |  |
| Resource Summary | Prior Years | FY 2020 | FY 2021 | FY 2022 Base | FY 2022 OCO | FY 2022 Total |
| Procurement Quantity (Units in Each) | - | - | - | - | - | - |
| Gross/Weapon System Cost (\$ in Millions) | 29.382 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| Less PY Advance Procurement (\$ in Millions) | - | - | - | - | - | - |
| Net Procurement (P-1) (\$ in Millions) | 29.382 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| Plus CY Advance Procurement (\$ in Millions) | - | - | - | - | - | - |
| Total Obligation Authority (\$ in Millions) | 29.382 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| (The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.) |  |  |  |  |  |  |
| Initial Spares (\$ in Millions) | - | - | - | - | - | - |
| Gross/Weapon System Unit Cost (\$ in Millions) | - | - | - | - | - | - |

## Description:

USAF plans to begin divestment of the Block 20 aircraft in FY21 and the Block 30 aircraft in FY22. To maximize value to the USAF and DoD, efforts will be pivoted to focus on supporting the Block 40 fleet and Block 30 closeout actions.

This modification program includes the purchase and installation of Intelligence, Surveillance and Reconnaissance (ISR) Payload Adapters (IPAs), interface harnessing, Interchangeable Fairings (ICFs), as well as other related sensor enhancements. This Mod reflects nine (9) BIk 30 air vehicles to be retrofitted. IPAs provide a common air vehicle physical interface with an Open Mission Systems (OMS) software layer for payloads, which is expected to provide reduced cost and schedule air vehicle integration. IPAs to be installed on Airborne Signals Intelligence Payload (ASIP) capable aircraft.

Milestone/Development Status
Development concluded in prior years.

| Exhibit P-3a, Individual Modification: PB 2022 Air Force |  |  |  |  |  | Date: May 2021 |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5 |  | P-1 Line Item Number / Title: HAWK00 / RQ-4 Mods |  |  |  | Modification Number / Title: 470013 / Sensor Enhancements |  |
| ID Code (A=Service Ready, B=Not Service Ready) : A |  |  | MDAP/MAIS Code: |  |  |  |  |
| Models of Systems Affected: RQ-4 | Modification Type: Capability Improvement |  |  | Related RDT\&E PEs: 0305220F |  |  |  |
|  | Prior Years | FY 2020 | FY 2021 | FY 2022 Base |  | FY 2022 OCO | FY 2022 Total |
| Financial Plan | $\begin{gathered} \text { Qty (Each) I } \\ \text { Total Cost (\$ M) } \end{gathered}$ | $\begin{gathered} \text { Qty (Each)I } \\ \text { Total Cost (\$M) } \\ \hline \end{gathered}$ | $\begin{gathered} \text { Qty (Each) I } \\ \text { Total Cost (\$ M) } \end{gathered}$ | $\begin{gathered} \text { Qty (Each) I } \\ \text { Total Cost (\$ M) } \\ \hline \end{gathered}$ |  | $\begin{gathered} \text { Qty (Each)I } \\ \text { Total Cost (\$ M) } \\ \hline \end{gathered}$ | $\begin{gathered} \text { Qty (Each) I } \\ \text { Total Cost (\$ M) } \\ \hline \end{gathered}$ |
| Procurement |  |  |  |  |  |  |  |
| Modification Item 1 of 1: Grp B Equipment (2) |  |  |  |  |  |  |  |
| A Kits |  |  |  |  |  |  |  |
| Recurring |  |  |  |  |  |  |  |
| Grp B Equipment:INSTALL KITS Group A (Active) | 3/3.621 | - 1- | - 1- | - |  | - 1- | - 1 - |
| Subtotal: Recurring | - 13.621 | - 1- | - 1 - | - |  | - / - | 1. |
| B Kits |  |  |  |  |  |  |  |
| Recurring |  |  |  |  |  |  |  |
| Grp B Equipment:EQUIPMENT Group B (Active) | 3/5.758 | - 1- | -1- | - |  | 1 - | $1-$ |
| Subtotal: Recurring | - 15.758 | - 1 | - 1- |  |  | - 1- | - 1 - |
| Subtotal: Grp B Equipment (2) | - 19.379 | - 1 | 1 |  |  | - 1 | 1 - |
| Subtotal: Procurement, All Modification Items | - 19.379 | 1 | 1 |  |  | 1 - | $1-$ |
| Support (All Modification Items) |  |  |  |  |  |  |  |
| OTHER GOVT | - 14.551 | - 1- | - 1- |  |  | - 1 - | - $1-$ |
| Change Orders | - 15.358 | -1. | -1- |  |  | - 1 - | -1- |
| Subtotal: Support | - 19.909 | - 1- | - 1- |  |  | - 1- | $1-$ |
| Installation |  |  |  |  |  |  |  |
| Modification Item 1 of 1: Grp B Equipment (2) | 3/10.094 | - 1 | 1 - |  |  | 1 - | $1-$ |
| Subtotal: Installation | 3/10.094 | - 1 - | - 1 - |  |  | - 1 - | $1-$ |
| Total |  |  |  |  |  |  |  |
| Total Cost (Procurement + Support + Installation) | 29.382 | 0.000 | 0.000 |  | 00 | 0.000 | 0.000 |

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| Exhibit P-3a, Individual Modification: PB 2022 Air Force ${ }^{\text {a }}$ Dater |  |  |  |  | Date: May 2021 |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5 | P-1 Line Item Number / Title: HAWK00 / RQ-4 Mods |  |  |  | Modification Number / Title: 470019 / Communication Interoperability/ Enhancements |  |
| ID Code (A=Service Ready, B=Not Service Ready) : A | MDAP/MAIS Code: |  |  |  |  |  |
| Resource Summary | Prior Years | FY 2020 | FY 2021 | FY 2022 Base | FY 2022 OCO | FY 2022 Total |
| Procurement Quantity (Units in Each) | - | - | - | - | - | - |
| Gross/Weapon System Cost (\$ in Millions) | 3.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| Less PY Advance Procurement (\$ in Millions) | - | - | - | - | - | - |
| Net Procurement (P-1) (\$ in Millions) | 3.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| Plus CY Advance Procurement (\$ in Millions) | - | - | - | - | - | - |
| Total Obligation Authority (\$ in Millions) | 3.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| (The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.) |  |  |  |  |  |  |
| Initial Spares (\$ in Millions) | - | - | - | - | - | - |
| Gross/Weapon System Unit Cost (\$ in Millions) | - | - | - | - | - | - |

## Description:

 Block 30 closeout actions.


 needed geographical separation required to conduct worldwide RSO.
 there's a need for a reach-back capability upgrade pair that replaces both the AP4000 and Broadmore 500.
 manufacturing source for the AP4000s and also enable a long term technical solution for reach-back monitoring.
 the equipment. Funding will also be used to update documentation through the Contractor.

SPAWAR will purchase all equipment, parts, and materials required for ten (10) upgrades.
 cockpits, and associated communication system equipment.

Milestone/Development Status
Development installation, test, and checkout to be accomplished in 2018 and early 2019. The production assets can be purchased prior to full completion of development work.

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| Exhibit P-3a, Individual Modification: PB 2022 Air Force |  |  |  |  | Date: May 2021 |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5 |  | P-1 Line Item Number / Title: HAWK00 / RQ-4 Mods |  |  | Modification Number / Title: <br> 470019 / Communication Interoperability/ Enhancements |  |
| ID Code (A=Service Ready, B=Not Service Ready) : A |  |  | MDAP/MAIS Code: |  |  |  |
| Models of Systems Affected: RQ-4 | Modification Type: Capability Improvement |  |  | Related RDT\&E PEs: 0305220F |  |  |
|  | Prior Years | FY 2020 | FY 2021 | FY 2022 Base | FY 2022 OCO | FY 2022 Total |
| Financial Plan | Qty (Each) I Total Cost (\$ M) | $\begin{aligned} & \text { Qty (Each) I } \\ & \text { Total Cost (\$ M) } \end{aligned}$ | Qty (Each) I <br> Total Cost (\$ M) | Qty (Each) I <br> Total Cost (\$ M) | Qty (Each) I Total Cost (\$ M) | Qty (Each) I Total Cost (\$ M) |
| Procurement |  |  |  |  |  |  |
| Modification Item 1 of 1: Group B Equipment |  |  |  |  |  |  |
| A Kits |  |  |  |  |  |  |
| Recurring |  |  |  |  |  |  |
| Group B Equipment:INSTALL KITS Group A (Active) | $34 / 0.450$ | - 1- | - 1- | - 1- | - 1- | - 1- |
| Subtotal: Recurring | - 10.450 | - 1 - | - / - | - 1- | - 1 - | - 1- |
| B Kits |  |  |  |  |  |  |
| Recurring |  |  |  |  |  |  |
| Group B Equipment:EQUIPMENT Group B (Active) | $34 / 1.750$ | - 1- | - 1- | - 1- | - 1- | - 1 - |
| Subtotal: Recurring | - /1.750 | - 1- | - 1- | - 1- | - 1- | - 1 - |
| Subtotal: Group B Equipment | - 12.200 | - / - | - / - | - / - | - / - | - 1 - |
| Subtotal: Procurement, All Modification Items | - 12.200 | - 1- | - / - | - / - | - 1- | - 1- |
| Support (All Modification Items) |  |  |  |  |  |  |
| Change Orders | - 10.500 | - 1- | - 1- | - 1- | - 1- | 1 - |
| Subtotal: Support | - 10.500 | - 1- | - 1- | - 1- | - / - | - 1- |
| Installation |  |  |  |  |  |  |
| Modification Item 1 of 1: Group B Equipment | $34 / 0.300$ | - 1- | - 1- | - 1- | - 1 | - 1 |
| Subtotal: Installation | 34/0.300 | - / - | - 1 - | - / - | - / - | - 1- |
| Total |  |  |  |  |  |  |
| Total Cost (Procurement + Support + Installation) | 3.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |

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Appropriation / Budget Activity / Budget Sub Activity:
3010F: Aircraft Procurement, Air Force / BA 05: Modification of Inservice Aircraft /
BSA 5: Other Aircraft

## P-1 Line Item Number / Title: <br> HCMC00 / HC/MC-130 Modifications

| ID Code (A=Service Ready, B=Not Service Ready): |  |  | Program Elements for Code B Items: 0207224F, 0207230F |  |  |  |  | Other Related Program Elements: 0207224F, 0207230F |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Line Item MDAP/MAIS Code: 257 |  |  |  |  |  |  |  |  |  |  |  |  |
| Resource Summary | Prior Years | FY 2020 | FY 2021 | FY 2022 Base | $\begin{gathered} \text { FY } 2022 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \text { FY } 2022 \\ \text { Total } \end{gathered}$ | FY 2023 | FY 2024 | FY 2025 | FY 2026 | To Complete | Total |
| Procurement Quantity (Units in Each) | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Cost (\$ in Millions) | 322.556 | 41.820 | 76.573 | 150.263 | - | 150.263 | - | - | - | - | - | - |
| Less PY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Net Procurement (P-1) (\$ in Millions) | 322.556 | 41.820 | 76.573 | 150.263 | - | 150.263 | - | - | - | - | - | - |
| Plus CY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Total Obligation Authority (\$ in Millions) | 322.556 | 41.820 | 76.573 | 150.263 | - | 150.263 | - | - | - | - | - | - |
| (The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.) |  |  |  |  |  |  |  |  |  |  |  |  |
| Initial Spares (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Flyaway Unit Cost (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Unit Cost (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |

## Description:

 maintainability and operational limitations. This program provides a common baseline configuration aircraft.


 30 years and the average service life remaining for an $\mathrm{HC}-130 \mathrm{~J}$ is 26.07 years and for an MC-130J is 25.15 years.

 as needed.

Funding for this exhibit is contained in PE 0207224F (HC-130J) and PE 0207230F (MC-130J).
FY21 funding totals 58.02 M for Overseas Contingency Operations.

| Secondary Distribution |  | FY 2020 | FY 2021 | $\begin{aligned} & \text { FY } 2022 \\ & \text { Base } \end{aligned}$ | $\begin{aligned} & \text { FY } 2022 \\ & \text { OCO } \end{aligned}$ | $\begin{gathered} \text { FY } 2022 \\ \text { Total } \end{gathered}$ | FY 2023 | FY 2024 | FY 2025 | FY 2026 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| AF | Quantity | - | - | - | - | - | - | - | - | - |
|  | Total Obligation Authority | 41.820 | 76.573 | 134.393 | - | 134.393 | - | - | - | - |
| AFNG | Quantity | - | - | - | - | - | - | - | - | - |
|  | Total Obligation Authority | - | - | 15.870 | - | 15.870 | - | - | - | - |
| Total: | Quantity | - | - | - | - | - | - | - | - | - |

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| Exhibit P-40, Budget Line Item Justification: PB 2022 Air Force |  |  |  |  |  |  |  | Date: May 2021 |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: <br> 3010F: Aircraft Procurement, Air Force / BA 05: Modification of Inservice Aircraft / BSA 5: Other Aircraft |  |  |  |  | P-1 Line Item Number / Title: HCMC00 / HC/MC-130 Modifications |  |  |  |  |  |
| ID Code (A=Service Ready | ot Service Ready): | Program Elements for Code B Items: 0207224F, 0207230F |  |  |  |  | Other Related Program Elements: 0207224F, 0207230F |  |  |  |
| Line Item MDAP/MAIS Code: 257 |  |  |  |  |  |  |  |  |  |  |
| Secondary Distribution |  | FY 2020 | FY 2021 | $\begin{gathered} \text { FY } 2022 \\ \text { Base } \end{gathered}$ | $\begin{gathered} \text { FY } 2022 \\ \text { OCO } \end{gathered}$ | FY 2022 <br> Total | FY 2023 | FY 2024 | FY 2025 | FY 2026 |
| Secondary Distribution | Total Obligation Authority | 41.820 | 76.573 | 150.263 | - | 150.263 |  | - | - | - |

Exhibit P-40, Budget Line Item Justification: PB 2022 Air Force
Date: May 2021
Appropriation / Budget Activity / Budget Sub Activity:
3010F: Aircraft Procurement, Air Force / BA 05: Modification of Inservice Aircraft /
BSA 5: Other Aircraft

## P-1 Line Item Number / Title: <br> HCMC00 / HC/MC-130 Modifications

 BSA 5: Other Aircraft
Line Item MDAP/MAIS Code: 257


*** Although this is an Exhibit P-40a item, the actual exhibit is not included since all of the required information for this item is already being shown here.
*Title represents 1) the Number / Title for Items; 2) the Number / Title [DODIC] for Ammunition; and/or 3) the Number / Title (Modification Type) for Modifications.
Note: Totals in this Exhibit P-40 set may not be exact or sum exactly due to rounding

## Justification:

This program, P-3A Mod 5222, HC/MC-130J Block 8.1, is a new start.
This program, P-3A Mod 8632, MC-130J Increment 2, is a new start.
This program, P-3A Mod 8761, MC/AC-Communications Modernization Phase I, is a new start.
This program, P-3A Mod 8764, Trainer Modifications, is a new start.
This program, P-3A Mod 99999Y, MC-Low Cost Modifications, is a new start.


Exhibit P-3a, Individual Modification: PB 2022 Air Force

## Appropriation / Budget Activity / Budget Sub Activity:

## 3010F/05/5

ID Code ( $A=$ Serice Ready, $B=$ Not Service Ready : B

## P-1 Line Item Number / Title: HCMC00 / HC/MC-130 Modifications

## Date: May 2021

## Modification Number / Title:

5222 / HC/MC-130J Block 8.1

| Resource Summary | Prior Years | FY 2020 | FY 2021 | FY 2022 Base | FY 2022 OCO | FY 2022 Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Procurement Quantity (Units in Each) | - | - | - | - | - | - |
| Gross/Weapon System Cost (\$ in Millions) | 9.492 | 0.000 | 0.000 | 15.870 | 0.000 | 15.870 |
| Less PY Advance Procurement (\$ in Millions) | - | - | - | - | - | - |
| Net Procurement (P-1) (\$ in Millions) | 9.492 | 0.000 | 0.000 | 15.870 | 0.000 | 15.870 |
| Plus CY Advance Procurement (\$ in Millions) | - | - | - | - | - | - |
| Total Obligation Authority (\$ in Millions) | 9.492 | 0.000 | 0.000 | 15.870 | 0.000 | 15.870 |
| (The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.) |  |  |  |  |  |  |
| Initial Spares (\$ in Millions) | - | - | - | - | - | - |
| Gross/Weapon System Unit Cost (\$ in Millions) | - | - | - | - | - | - |

## Description:

This program, P-3A Mod 5222, HC/MC-130J Block 8.1, is a new start.



 potential DMS and obsolescence solutions, to include if optimal, life of type buys or bridge buys limited to the program of record quantity.
 funded) modifications while allowing Air Combat Command (ACC) to move forward with Block 7.0/8.1 on the HC-130J.


 schedule requirements and operational interoperability requirements under the Defensive System Suite Program.
 program schedule requirements and operational interoperability requirements.
 ANG aircraft. The program for the remainder of the HC Fleet is currently paused until more funds are programmed. Disconnects are being worked in the POM process.

Milestone/Development Status
HC-130J Block 7.0/8.1 Trial Kit Install RDT\&E project started in FY16 to be completed in FY21.

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| Exhibit P-3a, Individual Modification: PB 2022 Air Force |  |  |  |  | Date: May 2021 |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5 |  | P-1 Line Item Number / Title: HCMC00 / HC/MC-130 Modifications |  |  | Modification Number / Title: 5222 / HC/MC-130J Block 8.1 |  |
| ID Code (A=Service Ready, B=Not Service Ready) : B |  |  | MDAP/MAIS Code: |  |  |  |
| Models of Systems Affected: HC-130J, MC-130J, AC-130J |  | Modification Type: Capability Improvement |  | Related RDT\&E PEs: 0207224F |  |  |
|  | Prior Years | FY 2020 | FY 2021 | FY 2022 Base | FY 2022 OCO | FY 2022 Total |
| Financial Plan | $\begin{gathered} \text { Qty (Each) I } \\ \text { Total Cost (\$ M) } \\ \hline \end{gathered}$ | Qty (Each) I <br> Total Cost (\$ M) | $\begin{gathered} \text { Qty (Each) I } \\ \text { Total Cost (\$ M) } \\ \hline \end{gathered}$ | Qty (Each) I <br> Total Cost (\$ M) | $\begin{gathered} \text { Oty (Each) I } \\ \text { Total Cost (\$ M) } \end{gathered}$ | $\begin{gathered} \text { Qty (Each) I } \\ \text { Total Cost (\$ M) } \\ \hline \end{gathered}$ |
| Procurement |  |  |  |  |  |  |
| Modification Item 1 of 1: CSO 2.5 (Crew Station Operation) |  |  |  |  |  |  |
| A Kits |  |  |  |  |  |  |
| Recurring |  |  |  |  |  |  |
| CSO 2.5 (Crew Station Operation):INSTALL KITS Group A (Guard) | 3/9.492 | - 1- | - 1- | - 1- | 1. | 1. |
| Subtotal: Recurring | - 19.492 | - 1 - | - 1- | - 1- | - 1- | -1- |
| Subtotal: CSO 2.5 (Crew Station Operation) | - 19.492 | - 1- | - 1- | - 1 | - 1 | - 1 |
| Subtotal: Procurement, All Modification Items | - 19.492 | - 1. | - 1- | - 1- | - 1- | -1. |
| Installation |  |  |  |  |  |  |
| Modification Item 1 of 1: CSO 2.5 (Crew Station Operation) | 1 - | 1 | 1. | 3/15.870 | 1. | 3/15.870 |
| Subtotal: Installation | -1- | -1- | - 1- | 3/15.870 | - 1- | 3/15.870 |
| Total |  |  |  |  |  |  |
| Total Cost (Procurement + Support + Installation) | 9.492 | 0.000 | 0.000 | 15.870 | 0.000 | 15.870 |

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Exhibit P-3a, Individual Modification: PB 2022 Air Force

## Appropriation / Budget Activity / Budget Sub Activity:

 3010F / 05 / 5
## P-1 Line Item Number / Title: HCMC00 / HC/MC-130 Modifications

## Date: May 2021

## Modification Number / Title:

8632 / MC-130J Increment 2

ID Code (A=Serice Ready, $B=$ Not Service Ready) : A
MDAP/MAIS Code:

| Resource Summary | Prior Years | FY 2020 | FY 2021 | FY 2022 Base | FY 2022 OCO | FY 2022 Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Procurement Quantity (Units in Each) | - | - | - | - | - | - |
| Gross/Weapon System Cost (\$ in Millions) | 39.379 | 0.000 | 0.000 | 0.285 | 0.000 | 0.285 |
| Less PY Advance Procurement (\$ in Millions) | - | - | - | - | - | - |
| Net Procurement (P-1) (\$ in Millions) | 39.379 | 0.000 | 0.000 | 0.285 | 0.000 | 0.285 |
| Plus CY Advance Procurement (\$ in Millions) | - | - | - | - | - | - |
| Total Obligation Authority (\$ in Millions) | 39.379 | 0.000 | 0.000 | 0.285 | 0.000 | 0.285 |
| (The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.) |  |  |  |  |  |  |
| Initial Spares (\$ in Millions) | - | - | - | - | - | - |
| Gross/Weapon System Unit Cost (\$ in Millions) | - | - | - | - | - | - |

## Description:

This program, P-3A Mod 8632, MC-130J Increment 2, is a new start.




 aircraft. CIP modification includes upgrading the Multi-Spectral Targeting System-A (MTS-A), Legacy Turret Unit and Electrical Unit to the MC-130J aircraft.
 units as aircraft availability permits.

8 MC-130J Increment 1 aircraft have been delivered to units as Increment 2. All remaining kits were delivered by 9 Jun 2020.
7 MC-130J Option X modifications have been delivered. All remaining kits will be delivered by 30 Sep 2023
33 MC-130J CIP upgraded modifications have been delivered. All remaining kits will be delivered by 31 Mar 2025.
Milestone/Development Status
Increment 2 development is complete.

| Secondary Distribution |  | FY 2020 | FY 2021 | $\begin{gathered} \text { FY } 2022 \\ \text { Base } \end{gathered}$ | $\begin{gathered} \text { FY } 2022 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \text { FY } 2022 \\ \text { Total } \end{gathered}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| AF | Quantity | - | - | - | - | - |
|  | Total Obligation Authority | 0.000 | - | 0.285 | - | 0.285 |
| Total: <br> Secondary Distribution | Quantity | - | - | - | $\cdot$ | - |
|  | Total Obligation Authority | 0.000 | 0.000 | 0.285 | 0.000 | 0.285 |

UNCLASSIFIED
Page 8 of 49

| Exhibit P-3a, Individual Modification: PB 2022 Air Force |  |  |  |  | Date: May 2021 |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5 |  | P-1 Line Item Number / Title: HCMC00 / HC/MC-130 Modifications |  |  | Modification Number / Title: 8632 / MC-130J Increment 2 |  |
| ID Code (A=Service Ready, B=Not Service Ready) : A |  |  | MDAP/MAIS Code: |  |  |  |
| Models of Systems Affected: MC-130J | Modification Type: Capability Improvement |  |  | Related RDT\&E PEs: |  |  |
|  | Prior Years | FY 2020 | FY 2021 | FY 2022 Base | FY 2022 OCO | FY 2022 Total |
| Financial Plan | $\begin{gathered} \text { Qty (Each) I } \\ \text { Total Cost (\$ M) } \end{gathered}$ | $\begin{gathered} \text { Qty (Each) I } \\ \text { Total Cost (\$ M) } \end{gathered}$ | $\begin{gathered} \text { Qty (Each) I } \\ \text { Total Cost (\$ M) } \end{gathered}$ | $\begin{gathered} \text { Qty (Each) I } \\ \text { Total Cost (\$ M) } \end{gathered}$ | $\begin{gathered} \text { Qty (Each) I } \\ \text { Total Cost (\$ M) } \end{gathered}$ | $\begin{gathered} \text { Qty (Each)I } \\ \text { Total Cost (\$M) } \end{gathered}$ |
| Procurement |  |  |  |  |  |  |
| Modification Item 1 of 1: Inc 1-2 |  |  |  |  |  |  |
| A Kits |  |  |  |  |  |  |
| Recurring |  |  |  |  |  |  |
| Inc 1-2:INSTALL KITS Group A (Active) | $40 / 20.780$ | - 1- | - 1- | - 1- | - 1 - | - 1. |
| Subtotal: Recurring | - 120.780 | - 1- | - 1- | - 1- | - 1- | - 1- |
| Subtotal: Inc 1-2 | - 120.780 | - 1 - | - 1 - | - 1 - | - 1 - | - 1 - |
| Subtotal: Procurement, All Modification Items | - /20.780 | - 1- | - 1. | - 1- | -1- | -1- |
| Support (All Modification Items) |  |  |  |  |  |  |
| Change Orders | - 11.227 | - 1. | - 1. | - 1- | - 1- | - 1 - |
| SIM/TRAINER | 5/8.694 | - 1- | - 1- | - 1- | - 1- | - 1- |
| Subtotal: Support | 5/9.921 | - 1 - | - 1- | - 1- | - 1- | - 1. |
| Installation |  |  |  |  |  |  |
| Modification Item 1 of 1: Inc 1-2 | 2518.678 | 5/0.000 | - 1- | $10 / 0.285$ | - 1 - | 10/0.285 |
| Subtotal: Installation | 25/8.678 | 5/0.000 | - 1 - | 10/0.285 | - 1 - | 10/0.285 |
| Total |  |  |  |  |  |  |
| Total Cost (Procurement + Support + Installation) | 39.379 | 0.000 | 0.000 | 0.285 | 0.000 | 0.285 |

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Exhibit P-3a, Individual Modification: PB 2022 Air Force

## Appropriation / Budget Activity / Budget Sub Activity:

 3010F / 05 / 5
## P-1 Line Item Number / Title: HCMC00 / HC/MC-130 Modifications

Date: May 2021

## Modification Number / Title:

8634 / HC-130J Common Configuration

ID Code ( $A=$ Serice Ready, $B=$ Not Serice Ready) : A
MDAP/MAIS Code:

| Resource Summary | Prior Years | FY 2020 | FY 2021 | FY 2022 Base | FY 2022 OCO | FY 2022 Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Procurement Quantity (Units in Each) | - | - | - | - | - | - |
| Gross/Weapon System Cost (\$ in Millions) | 44.809 | 0.000 | 0.574 | 0.001 | 0.000 | 0.001 |
| Less PY Advance Procurement (\$ in Millions) | - | - | - | - | - | - |
| Net Procurement (P-1) (\$ in Millions) | 44.809 | 0.000 | 0.574 | 0.001 | 0.000 | 0.001 |
| Plus CY Advance Procurement (\$ in Millions) | - | - | - | - | - | - |
| Total Obligation Authority (\$ in Millions) | 44.809 | 0.000 | 0.574 | 0.001 | 0.000 | 0.001 |
| (The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.) |  |  |  |  |  |  |
| Initial Spares (\$ in Millions) | - | - | - | - | - | - |
| Gross/Weapon System Unit Cost (\$ in Millions) | - | - | - | - | - | - |

## Description:







 includes 10 MC -130Js from the Increment 1 to the Increment 2 configuration and 57 MC -130J CIP upgrades and Option X modifications.

Installations in FY22 and FY23 are HC CIP and Option X installations due to COVID-19 pandemic delays.

## Milestone/Development Status

| Secondary Distribution |  | FY 2020 | FY 2021 | FY 2022 Base | $\begin{gathered} \text { FY } 2022 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \text { FY } 2022 \\ \text { Total } \end{gathered}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| AF | Quantity | - | - | - | - | - |
|  | Total Obligation Authority | 0.000 | 0.574 | 0.001 | - | 0.001 |
| Total: <br> Secondary Distribution | Quantity | - | - | - | - | - |
|  | Total Obligation Authority | 0.000 | 0.574 | 0.001 | 0.000 | 0.001 |

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| Exhibit P-3a, Individual Modification: PB 2022 Air Force |  |  |  |  | Date: May 2021 |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5 |  | P-1 Line Item Number / Title: HCMC00 / HC/MC-130 Modifications |  |  | Modification Number / Title: 8634 / HC-130J Common Configuration |  |
| ID Code (A=Service Ready, B=Not Service Ready) : A |  |  | MDAP/MAIS Code: |  |  |  |
| Models of Systems Affected: HC-130J | Modification Type: Capability Improvement |  |  | Related RDT\&E PEs: 0207224F |  |  |
|  |  |  |  | FY 2022 Base | FY 2022 OCO | FY 2022 Total |
| Financial Plan | $\begin{gathered} \text { Qty (Each) I } \\ \text { Total Cost (\$ M) } \\ \hline \end{gathered}$ | $\begin{gathered} \text { Qty (Each)I } \\ \text { Total Cost (\$M) } \end{gathered}$ | $\begin{gathered} \text { Qty (Each) I } \\ \text { Total Cost }(\$ \text { M) } \\ \hline \end{gathered}$ | $\begin{gathered} \text { Qty (Each) I } \\ \text { Total Cost }(\$ M) \end{gathered}$ | $\begin{gathered} \text { Qty (Each)I } \\ \text { Total Cost (\$M) } \\ \hline \end{gathered}$ | $\begin{gathered} \text { Qty (Each) I } \\ \text { Total Cost }(\$ M) \\ \hline \end{gathered}$ |
| Procurement |  |  |  |  |  |  |
| Modification Item 1 of 1: Inc 0-2 Common Configuration |  |  |  |  |  |  |
| A Kits |  |  |  |  |  |  |
| Recurring |  |  |  |  |  |  |
| Inc 0-2 Common Configuration:INSTALL KITS Group A (Active) | 34/10.173 | - 1- | 5/0.270 | - 1- | -1. | 1. |
| Subtotal: Recurring | - /10.173 | - 1 | - 10.270 | - 1- | - 1- | - 1- |
| Subtotal: Inc 0-2 Common Configuration | - /10.173 | - 1- | - 10.270 | - / - | - / - | - 1- |
| Subtotal: Procurement, All Modification Items | - /10.173 | - 1 - | - 10.270 | - 1 - | - 1 - | -1- |
| Support (All Modification Items) |  |  |  |  |  |  |
| GROUP A: TOTAL NONRECURRING | - 19.687 | -1- | - 1 - | - 1- | - 1. | - 1 - |
| SIM/TRAINER | 5/6.953 | - 1- | - 1- | - 1 - | -1- | - 1 - |
| SUPPORT-EQUIP | - 11.513 | - 1- | - 1- | - 1- | - 1- | -1. |
| OTHER GOVT | - 12.738 | - 1 - | 1 - | - 1- | -1- | - 1- |
| Subtotal: Support | 5/20.891 | - 1. | 1. | 1 | - 1- | - 1- |
| Installation |  |  |  |  |  |  |
| Modification Item 1 of 1: Inc 0-2 Common Configuration | $22 / 13.745$ | 10/0.000 | 2/0.304 | 5/0.001 | - 1 - | 5/0.001 |
| Subtotal: Installation | 22/13.745 | 101 - | 2/0.304 | 5/0.001 | - 1- | 5/0.001 |
| Total |  |  |  |  |  |  |
| Total Cost (Procurement + Support + Installation) | 44.809 | 0.000 | 0.574 | 0.001 | 0.000 | 0.001 |

## UNCLASSIFIED



| Exhibit P-3a, Individual Modification: PB 2022 Air Force |  |  |  |  | Date: May 2021 |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5 | P-1 Line Item Number / Title: <br> HCMC00 / HC/MC-130 Modifications |  |  |  | Modification Number / Title: 8635 / HC-130J Personnel Locator System |  |
| ID Code ( $A=$ Service Ready, $\mathrm{B}=$ Not Service Ready) : B | MDAP/MAIS Code: |  |  |  |  |  |
| Resource Summary | Prior Years | FY 2020 | FY 2021 | FY 2022 Base | FY 2022 OCO | FY 2022 Total |
| Procurement Quantity (Units in Each) | - | - | - | - | - | - |
| Gross/Weapon System Cost (\$ in Millions) | 17.468 | 0.000 | 2.021 | 0.003 | 0.000 | 0.003 |
| Less PY Advance Procurement (\$ in Millions) | - | - | - | - | - | - |
| Net Procurement (P-1) (\$ in Millions) | 17.468 | 0.000 | 2.021 | 0.003 | 0.000 | 0.003 |
| Plus CY Advance Procurement (\$ in Millions) | - | - | - | - | - | - |
| Total Obligation Authority (\$ in Millions) | 17.468 | 0.000 | 2.021 | 0.003 | 0.000 | 0.003 |
| (The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.) |  |  |  |  |  |  |
| Initial Spares (\$ in Millions) | - | - | - | - | - | - |
| Gross/Weapon System Unit Cost (\$ in Millions) | - | - | - | - | - | - |

## Description:

This is an update to the personnel recovery communication systems to include, but not limited to, the lightweight airborne recovery system (LARS). This update was driven by the limited ability of the previous systems to connect to the emergency beacon frequency of 406 MHz or to connect with existing and future military survival radios such as the Combat Survivor Evader Locator (CSEL)(AN/PRQ-7) or the AN/ PRC-112). It is a secure system that uses two-way encrypted over-the-horizon data communications. The system has gone through developmental test (DT) and operational test (OT) and has been approved for fielding. This effort includes but is not limited to kits, training, tech data, Readiness Spares Package (RSP), Operation Flight Program (OFP) builds, and other government costs.

This funding will support potential DMS and obsolescence solutions, to include if optimal, life of type buys or bridge buys limited to the program of record quantity.
The LARS program will equip all 39 HC - 130 J aircraft that will be in the fleet. 30 kits and installs are completed. 3 additional kits will be installed in FY21 which have been purchased, along with the remaining 3 kits scheduled for installation in FY22, thus completing all initial installations.

Kits and installation costs in FY22 and FY23 may be required to field any software and hardware changes that may require installation to keep LARS operational.
Milestone/Development Status

| N/A |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Secondary Distribution |  | FY 2020 | FY 2021 | FY 2022 <br> Base | $\begin{gathered} \text { FY } 2022 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \text { FY } 2022 \\ \text { Total } \end{gathered}$ |
| AF | Quantity | - | - | - | - | - |
|  | Total Obligation Authority | 0.000 | 2.021 | 0.003 | - | 0.003 |
| Total: <br> Secondary Distribution | Quantity | - | - | - | - | - |
|  | Total Obligation Authority | 0.000 | 2.021 | 0.003 | 0.000 | 0.003 |


| Exhibit P-3a, Individual Modification: PB 2022 Air Force |  |  |  |  | Date: May 2021 |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5 |  | P-1 Line Item Number / Title: HCMC00 / HC/MC-130 Modifications |  |  | Modification Number / Title: 8635 / HC-130J Personnel Locator System |  |
| ID Code (A=Service Ready, B=Not Service Ready) : B |  |  | MDAP/MAIS Code: |  |  |  |
| Models of Systems Affected: HC-130J | Modification Type: Capability Improvement |  |  | Related RDT\&E PEs: 0207224F |  |  |
|  | Prior Years | FY 2020 | FY 2021 | FY 2022 Base | FY 2022 OCO | FY 2022 Total |
| Financial Plan | Qty (Each) I Total Cost (\$ M) | Qty (Each) I Total Cost (\$ M) | Qty (Each) I Total Cost (\$ M) | Qty (Each) I Total Cost (\$ M) | Qty (Each) I Total Cost (\$ M) | Qty (Each) I Total Cost (\$ M) |
| Procurement |  |  |  |  |  |  |
| Modification Item 1 of 1: Personnel Locator System |  |  |  |  |  |  |
| A Kits |  |  |  |  |  |  |
| Recurring |  |  |  |  |  |  |
| Personnel Locator System:INSTALL KITS Group A (Active) | $39 / 1.383$ | 1 - | 1 - | - 10.001 | 1 - | 10.001 |
| Subtotal: Recurring | - /1.383 | - 1. | 1. | - 10.001 | - 1 - | - 10.001 |
| B Kits |  |  |  |  |  |  |
| Recurring |  |  |  |  |  |  |
| Personnel Locator System:EQUIPMENT Group B (Active) | $39 / 10.426$ | -1- | - 11.832 | - 10.001 | - 1- | - 10.001 |
| Subtotal: Recurring | - /10.426 | - / - | - 11.832 | - 10.001 | - / - | - 10.001 |
| Subtotal: Personnel Locator System | - /11.809 | - 1 - | - 11.832 | - 10.002 | - / - | - 10.002 |
| Subtotal: Procurement, All Modification Items | - /11.809 | 1 - | - 11.832 | - 10.002 | - 1- | - 10.002 |
| Support (All Modification Items) |  |  |  |  |  |  |
| GROUP A: TOTAL NONRECURRING | - 10.491 | - 1- | - 1- | - 1 - | - 1- | - $1-$ |
| OTHER GOVT | - 10.227 | -1- | 1 - | - 1- | - 1- | - 1 - |
| Data | - 10.233 | -1- | - 1- | - 1- | - 1- | -1- |
| SUPPORT-EQUIP | - 10.679 | -1- | - 1- | - 1- | - 1- | - 1 - |
| PMA - Contractor Services | - 10.481 | -1- | - 1 - | - 1 - | - 1- | - 1 - |
| Subtotal: Support | - 12.111 | -1. | - 1- | - 1- | - 1- | -1- |
| Installation |  |  |  |  |  |  |
| Modification Item 1 of 1: Personnel Locator System | $27 / 3.548$ | 610.000 | 3/0.189 | 3/0.001 | - 1 - | 3/0.001 |
| Subtotal: Installation | 27/3.548 | $6 /$ - | 3/0.189 | 3/0.001 | - 1- | 3/0.001 |
| Total |  |  |  |  |  |  |
| Total Cost (Procurement + Support + Installation) | 17.468 | 0.000 | 2.021 | 0.003 | 0.000 | 0.003 |

## UNCLASSIFIED



Exhibit P-3a, Individual Modification: PB 2022 Air Force

## Appropriation / Budget Activity / Budget Sub Activity: 3010F/05/5

ID Code ( $A=$ Serice Ready, $B=$ Not Service Ready : B

## P-1 Line Item Number / Title: HCMC00 / HC/MC-130 Modifications

## Date: May 2021

## Modification Number / Title:

8636 / HC-130J Situational Awareness


## Description:

 disparate tactical network systems and enable onboard, real time situational awareness. The Situational Awareness Capabilities Upgrade (SACU) Program is implemented in phases.




 were accelerated to meet operational needs.


 Contractor Support (ICS) requirements; and to address Field Support needs such as Training, Interim Supply Support, and Support equipment.

 vary from year to year based upon the various kits for each phase being procured.
 the funding table labeled "Mod of Spares" is the procurement of initial spares.

FY21 funding includes $\$ 22.473 \mathrm{M}$ for Overseas Contingency Operations.
Milestone/Development Status
Phase 1A - MS C, 17 Dec 15 - Completed 36 of 39 installs
Phase 1B - MS C, 31 May 16 - Completed 19 of 39 installs

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| Exhibit P-3a, Individual Modification: PB 2022 Air Force |  |  |  |  | Date: May 2021 |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5 |  | P-1 Line Item Number / Title: HCMC00 / HC/MC-130 Modifications |  |  | Modification Number / Title: 8636 / HC-130J Situational Awareness |  |
| ID Code (A=Service Ready, B=Not Service Ready) : B |  |  | MDAP/MAIS Code: |  |  |  |
| Phase 2A - MS C, 17 Jan 18 - Completed System Requirements Review, Preliminary Design Review, and Critical Design Review |  |  |  |  |  |  |
| Secondary Distribution |  | FY 2020 | FY 2021 | $\begin{gathered} \text { FY } 2022 \\ \text { Base } \end{gathered}$ | $\begin{gathered} \hline \text { FY } 2022 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \hline \text { FY } 2022 \\ \text { Total } \end{gathered}$ |
| AF | Quantity | - | - | - | - | - |
|  | Total Obligation Authority | 15.349 | 22.521 | 2.837 | 7 | 2.837 |
| Total: Secondary Distribution | Quantity | - | - | - | - - | - |
|  | Total Obligation Authority | 15.349 | 22.521 | 2.837 | 7 0.000 | 2.837 |

## UNCLASSIFIED

| Exhibit P-3a, Individual Modification: PB 2022 Air Force |  |  |  |  | Date: May 2021 |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5 |  | P-1 Line Item Number / Title: HCMC00 / HC/MC-130 Modifications |  |  | Modification Number / Title: 8636 / HC-130J Situational Awareness |  |
| ID Code (A=Service Ready, B=Not Service Ready) : B |  |  | MDAP/MAIS Code: |  |  |  |
| Models of Systems Affected: HC-130J | Modification Type: Capability Improvement |  |  | Related RDT\&E PEs: 0207224F |  |  |
|  | Prior Years | FY 2020 | FY 2021 | FY 2022 Base | FY 2022 OCO | FY 2022 Total |
| Financial Plan | $\begin{gathered} \text { Qty (Each) I } \\ \text { Total Cost (\$M) } \end{gathered}$ | $\begin{gathered} \text { Qty (Each) I } \\ \text { Total Cost (\$M) } \end{gathered}$ | $\begin{gathered} \text { Qty (Each) I } \\ \text { Total Cost (\$ M) } \end{gathered}$ | $\begin{gathered} \text { Qty (Each) I } \\ \text { Total Cost }(\$ M) \\ \hline \end{gathered}$ | $\begin{gathered} \text { Qty (Each) I } \\ \text { Total Cost (\$M) } \end{gathered}$ | $\begin{gathered} \text { Qty (Each) I } \\ \text { Total Cost (\$M) } \end{gathered}$ |
| Procurement |  |  |  |  |  |  |
| Modification Item 1 of 1: Situational Awareness |  |  |  |  |  |  |
| A Kits |  |  |  |  |  |  |
| Recurring |  |  |  |  |  |  |
| Situational Awareness:INSTALL KITS Group A (Active) | 5217.478 | 6/1.126 | 8/5.899 | 210.170 | - 1 - | 210.170 |
| Subtotal: Recurring | - 17.478 | - 11.126 | - 15.899 | - 10.170 | - 1 - | - 10.170 |
| B Kits |  |  |  |  |  |  |
| Recurring |  |  |  |  |  |  |
| Situational Awareness:EQUIPMENT Group B (Active) | $52 / 14.639$ | 6/4.444 | $8 / 11.442$ | 2/0.406 | 1 - | 210.406 |
| Subtotal: Recurring | - /14.639 | - 14.444 | - /11.442 | - 10.406 | - 1 - | - 10.406 |
| Subtotal: Situational Awareness | - /22.117 | - 15.570 | - /17.341 | - 10.576 | 1- | - 10.576 |
| Subtotal: Procurement, All Modification Items | /22.117 | 15.570 | /17.341 | - 10.576 | - / - | - 10.576 |
| Support (All Modification Items) |  |  |  |  |  |  |
| GROUP A: TOTAL NONRECURRING | - /10.516 | - 18.979 | $1-$ | - $1-$ | - 1 - | - 1- |
| OTHER GOVT | - 12.185 | - 10.100 | - 10.070 | - 10.001 | - 1 - | - 10.001 |
| Mod of Spares | - 1 - | - 1 - | - 1 - | - 10.010 | -1. | - 10.010 |
| PMA - Contractor Services | - 11.906 | 1. | - 10.200 | - 10.010 | 1 | - 10.010 |
| ICS-Labor | - 15.852 | - 1- | - 10.030 | - 10.010 | -1- | - 10.010 |
| SIM/TRAINER | 1/8.659 | $1-$ | 1 - | - 1- | 1 - | - 1 - |
| SUPPORT-EQUIP | - 10.159 | - 1- | - 1 - | - 10.030 | -1- | - 10.030 |
| Subtotal: Support | 1/29.277 | - 19.079 | - 10.300 | - 10.061 | -1. | - 10.061 |
| Installation |  |  |  |  |  |  |
| Modification Item 1 of 1: Situational Awareness | $36 / 15.572$ | 16/0.700 | 6/4.880 | 8/2.200 | 1 - | 812.200 |
| Subtotal: Installation | 36/15.572 | 16/0.700 | 6/4.880 | 8/2.200 | - 1 - | 8/2.200 |
| Total |  |  |  |  |  |  |
| Total Cost (Procurement + Support + Installation) | 66.966 | 15.349 | 22.521 | 2.837 | 0.000 | 2.837 |

## UNCLASSIFIED



| Exhibit P-3a, Individual Modification: PB 2022 Air Force |  |  |  |  | Date: May 2021 |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5 | P-1 Line Item Number / Title: HCMC00 / HC/MC-130 Modifications |  |  |  | Modification Number / Title: 8639 / Wireless Intercom |  |
| ID Code (A=Service Ready, B=Not Service Ready) : B | MDAP/MAIS Code: |  |  |  |  |  |
| Resource Summary | Prior Years | FY 2020 | FY 2021 | FY 2022 Base | FY 2022 OCO | FY 2022 Total |
| Procurement Quantity (Units in Each) | - | - | - | - | - | - |
| Gross/Weapon System Cost (\$ in Millions) | 11.759 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| Less PY Advance Procurement (\$ in Millions) | - | - | - | - | - | - |
| Net Procurement (P-1) (\$ in Millions) | 11.759 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| Plus CY Advance Procurement (\$ in Millions) | - | - | - | - | - | - |
| Total Obligation Authority (\$ in Millions) | 11.759 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| (The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.) |  |  |  |  |  |  |
| Initial Spares (\$ in Millions) | - | - | - | - | - | - |
| Gross/Weapon System Unit Cost (\$ in Millions) | - | - | - | - | - | - |

## Description:

No FY 2022 Funding Requested.
This is an update to inter-phone communication system (ICS) to include, but not limited to, the Integrated Secure Wireless Inter-phone Communication System (ISWICS). This update is an encrypted system that is compatible with approved headsets, helmets, and oxygen masks and allows the loadmaster and other crew to wirelessly communicate with crew members in normal, push-to-talk, and voice activated mode (VOX). In addition to added wireless capability to the current ICS this upgrade also allows maintenance and forward area refueling point (FARP) crew to utilize ICS rather than relying on hand signals. This effort includes but is not limited to kits, training, tech data, Readiness Spares Package (RSPs), Operational Flight Program (OFP) builds, and other government costs. This is a non-developmental, commercially off the shelf available system. Total requirement to be procured and installed is up to 64 MC-130J aircraft. This funding will support potential DMS and obsolescence solutions, to include if optimal, life of type buys or bridge buys limited to the program of record quantity.

One unit was acquired in 2019 from SCI for demo purposes. The final report for this demonstration was received in Jan 2021 and HQ AFSOC deemed the ISWICS system not adequate.
The new strategy to satisfy the wireless ICS requirement is to leverage the ICS design work completed under the MC-130J Airborne Mission Networking (AbMN) program and task the AbMN vendor to integrate a wireless system with the remaining funds.

Milestone/Development Status
The estimated contract award date is August 2021.


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| Exhibit P-3a, Individual Modification: PB 2022 Air Force |  |  |  |  | Date: May 2021 |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5 | P-1 Line Item Number / Title: <br> HCMC00 / HC/MC-130 Modifications |  |  |  | Modification Number / Title: 8642 I (AbMN) Airborne Mission Networking |  |
| ID Code (A=Service Ready, B=Not Service Ready) : A | MDAP/MAIS Code: |  |  |  |  |  |
| Resource Summary | Prior Years | FY 2020 | FY 2021 | FY 2022 Base | FY 2022 OCO | FY 2022 Total |
| Procurement Quantity (Units in Each) | - | - | - | - | - | - |
| Gross/Weapon System Cost (\$ in Millions) | 25.576 | 26.471 | 16.771 | 45.195 | 0.000 | 45.195 |
| Less PY Advance Procurement (\$ in Millions) | - | - | - | - | - | - |
| Net Procurement (P-1) (\$ in Millions) | 25.576 | 26.471 | 16.771 | 45.195 | 0.000 | 45.195 |
| Plus CY Advance Procurement (\$ in Millions) | - | - | - | - | - | - |
| Total Obligation Authority (\$ in Millions) | 25.576 | 26.471 | 16.771 | 45.195 | 0.000 | 45.195 |
| (The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.) |  |  |  |  |  |  |
| Initial Spares (\$ in Millions) | - | - | - | - | - | - |
| Gross/Weapon System Unit Cost (\$ in Millions) | - | - | - | - | - | - |

## Description:



 6 January 2016. The service common hardware will be permanently integrated in the MC-130J aircraft as part of USSOCOMS AbMN modification and provides capabilities that include Beyond Line of Site, Line of Site, and Full Motion Video datalink. This funding request will support potential DMS and obsolescence solutions, to include if optimal, life of type buys or bridge buys limited to the program of record quantity. This program includes, but is not limited to, kits, training, simulators, tech data, spares, deployment packages, and other government costs.
 the funding table labeled "Mod of Spares" is the procurement of initial spares.

Requirement is $57 \mathrm{MC}-130 \mathrm{~J}$ aircrafts.

Milestone/Development Status
Milestone Development Status:
MS-B; LRIP start 3QFY20, MS-C 3QFY22

| Secondary Distribution |  | FY 2020 | FY 2021 | FY 2022 Base | $\begin{gathered} \text { FY } 2022 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \text { FY } 2022 \\ \text { Total } \end{gathered}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| AF | Quantity | - | - | - | - | - |
|  | Total Obligation Authority | 26.471 | 16.771 | 45.195 | - | 45.195 |
| Total: <br> Secondary Distribution | Quantity | - | - | - | - | - |
|  | Total Obligation Authority | 26.471 | 16.771 | 45.195 | 0.000 | 45.195 |

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| Exhibit P-3a, Individual Modification: PB 2022 Air Force |  |  |  |  | Date: May 2021 |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5 |  | P-1 Line Item Number / Title: HCMC00 / HC/MC-130 Modifications |  |  | Modification Number / Title: 8642 I (AbMN) Airborne Mission Networking |  |
| ID Code (A=Service Ready, B=Not Service Ready) : A |  |  | MDAP/MAIS Code: |  |  |  |
| Models of Systems Affected: MC-130J | Modification Type: Capability Improvement |  |  | Related RDT\&E PEs: |  |  |
|  | Prior Years | FY 2020 | FY 2021 | FY 2022 Base | FY 2022 OCO | FY 2022 Total |
|  | $\begin{gathered} \text { Qty (Each) I } \\ \text { Total Cost (\$ M) } \end{gathered}$ | Qty (Each) I Total Cost (\$ M) | Qty (Each) I Total Cost (\$ M) | Qty (Each) I Total Cost (\$ M) | Qty (Each) I Total Cost (\$ M) | Qty (Each) I Total Cost (\$ M) |
| Procurement |  |  |  |  |  |  |
| Modification Item 1 of 1: AbMNGroup B |  |  |  |  |  |  |
| B Kits |  |  |  |  |  |  |
| Recurring |  |  |  |  |  |  |
| AbMNGroup B:EQUIPMENT Group B (Active) | 4/24.449 | 4/21.366 | 1/8.310 | 4/19.280 | - 1- | 4/19.280 |
| Subtotal: Recurring | - 124.449 | - 121.366 | - 18.310 | - /19.280 | - 1 - | - /19.280 |
| Subtotal: AbMNGroup B | - 124.449 | - 121.366 | - 18.310 | - /19.280 | / - | - /19.280 |
| Subtotal: Procurement, All Modification Items | - 124.449 | - /21.366 | - 18.310 | - /19.280 | - $1-$ | - 119.280 |
| Support (All Modification Items) |  |  |  |  |  |  |
| SIM/TRAINER | $1-$ | - 10.462 | - 18.183 | - 114.212 | 1 - | 114.212 |
| ICs-Material | - 1 - | - 1- | - 1 - | - 10.001 | - 1- | - 10.001 |
| Mod of Spares | - 11.127 | - 14.052 | - 10.027 | - 14.689 | - 1- | - 14.689 |
| OTHER GOVT | - 1- | - 10.591 | - 10.251 | - 17.013 | - 1 - | - 17.013 |
| Subtotal: Support | - /1.127 | - /5.105 | - 18.461 | - /25.915 | - 1 - | - $/ 25.915$ |
| Installation |  |  |  |  |  |  |
| Subtotal: Installation | - / - | - 1- | - 1- | - 1- | - 1- | - 1- |
| Total |  |  |  |  |  |  |
| Total Cost (Procurement + Support + Installation) | 25.576 | 26.471 | 16.771 | 45.195 | 0.000 | 45.195 |

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|  |  |  |  |  | Date: May 2021 |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity 3010F / 05 / 5 | P-1 Line Item Number / Title: HCMC00 / HC/MC-130 Modifications |  |  |  | Modification Number / Title: 8648 / ADS-B out Acceleration |  |
| ID Code (A=Service Ready, B=Not Service Ready) : A | MDAP/MAIS Code: |  |  |  |  |  |
| Resource Summary | Prior Years | FY 2020 | FY 2021 | FY 2022 Base | FY 2022 OCO | FY 2022 Total |
| Procurement Quantity (Units in Each) | - | - | - | - | - | - |
| Gross/Weapon System Cost (\$ in Millions) | 2.175 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| Less PY Advance Procurement (\$ in Millions) | - | - | - | - | - | - |
| Net Procurement (P-1) (\$ in Milions) | 2.175 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| Plus CY Advance Procurement (\$ in Millions) | - | - | - | - | - | - |
| Total Obligation Authority (\$ in Millions) | 2.175 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| (The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.) |  |  |  |  |  |  |
| Initial Spares (\$ in Millions) | - | - | - | - | - | - |
| Gross/Weapon System Unit Cost (\$ in Millions) | - | - | - | - | - | - |

## Description:

This funding is used to improve compliance with USG and international mandates that allow HC/MC-130Js to utilize US and international airspace. This includes, but is not limited to, the Automatic Dependent Surveillance-Broadcast (ADS-B) Out program. HC/MC-130J is a part of the C-130J ADS-B Acceleration program which separated the ADS-B Out program from the 7.0/8.1 Program. The C-130J ADS-B Out program addresses the Federal Aviation Administration/International Civil Aviation Organization (FAA/ICAO) Communications/Navigation/Surveillance and Air Traffic Management (CNS/ATM) mandate. Aircraft not installed with ADS-B Out during production will be modified immediately after production delivery, prior to delivery to units.

Milestone/Development Status
Retrofits completed on 31 March 2020.

| Secondary Distribution |  | FY 2020 | FY 2021 | $\begin{gathered} \text { FY } 2022 \\ \text { Base } \end{gathered}$ | $\begin{gathered} \text { FY } 2022 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \hline \text { FY } 2022 \\ \text { Total } \end{gathered}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| AF | Quantity | - | - | - | - | - |
|  | Total Obligation Authority | 0.000 | - | - | - | - |
| Total: Secondary Distribution | Quantity |  | - | - | - | - |
|  | Total Obligation Authority | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |


| Exhibit P-3a, Individual Modification: PB 2022 Air Force |  |  |  |  | Date: May 2021 |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5 |  | P-1 Line Item Number / Title: HCMC00 / HC/MC-130 Modifications |  |  | Modification Number / Title: 8648 / ADS-B out Acceleration |  |
| ID Code (A=Service Ready, B=Not Service Ready) : A |  |  | MDAP/MAIS Code: |  |  |  |
| Models of Systems Affected: MC-130J | Modification Type: Capability Improvement |  |  | Related RDT\&E PEs: |  |  |
|  | Prior Years | FY 2020 | FY 2021 | FY 2022 Base | FY 2022 OCO | FY 2022 Total |
| Financial Plan | $\begin{gathered} \text { Qty (Each) I } \\ \text { Total Cost (\$ M) } \end{gathered}$ | $\begin{gathered} \text { Qty (Each) I } \\ \text { Total Cost (\$M) } \end{gathered}$ | $\begin{gathered} \text { Qty (Each) I } \\ \text { Total Cost (\$ M) } \end{gathered}$ | $\begin{gathered} \text { Qty (Each) I } \\ \text { Total Cost }(\$ M) \end{gathered}$ | $\begin{gathered} \text { Qty (Each) I } \\ \text { Total Cost (\$M) } \end{gathered}$ | $\begin{gathered} \text { Qty (Each) I } \\ \text { Total Cost (\$ M) } \end{gathered}$ |
| Procurement |  |  |  |  |  |  |
| Modification Item 1 of 1: Group A |  |  |  |  |  |  |
| A Kits |  |  |  |  |  |  |
| Recurring |  |  |  |  |  |  |
| Group A:INSTALL KITS Group A (Active) | 0/1.000 | - 1- | - 1- | - 1- | - 1- | - 1 - |
| Subtotal: Recurring | - 11.000 | - 1 - | - 1 - | - / - | - 1 - | 1 - |
| Subtotal: Group A | - 11.000 | - 1 - | - 1 - | - 1 - | - 1 - | $1-$ |
| Subtotal: Procurement, All Modification Items | - 11.000 | 1. | - 1 | - 1 - | - 1 - | -1. |
| Support (All Modification Items) |  |  |  |  |  |  |
| PMA - Contractor Services | - 10.695 | - 1- | - 1- | - 1- | - 1- | 1. |
| OTHER GOVT | - 10.480 | - 10.000 | - 1- | - 1- | -1- | 1 - |
| Subtotal: Support | - 11.175 | - 10.000 | - 1- | - 1- | -1. | -1. |
| Installation |  |  |  |  |  |  |
| Subtotal: Installation | - 1 - | - 1 - | - 1 - | - / - | - / - | $1-$ |
| Total |  |  |  |  |  |  |
| Total Cost (Procurement + Support + Installation) | 2.175 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |

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| Exhibit P-3a, Individual Modification: PB 2022 Air Force |  |  | Date: May 2021 |
| :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5 | P-1 Line Item Number / Title: HCMC00 / HC/MC-130 Modifications |  | Modification Number / Title: 8648 / ADS-B out Acceleration |
| ID Code (A=Service Ready, B=Not Service Ready) : A |  | MDAP/MAIS Code: |  |
| Modification Item 1 of 1: Group A |  |  |  |
| Manufacturer Information |  |  |  |
| Manufacturer Name: Lockheed Martin |  | Manufacturer Location: Marietta, GA |  |
| Administrative Leadtime (in Months): 1 |  | Production Leadtime (in Months): 5 |  |
| Dates | FY 2020 | FY 2021 | FY 2022 |
| Contract Dates |  |  |  |
| Delivery Dates |  |  |  |
|  |  |  |  |
| Installation Information |  |  |  |
| Method of Implementation (Organic): Org/Intermediate |  | Installation Quantity: 0 |  |


| Exhibit P-3a, Individual Modification: PB 2022 Air Force |  |  |  |  | Date: May 2021 |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5 | P-1 Line Item Number / Title: HCMC00 / HC/MC-130 Modifications |  |  |  | Modification Number / Title: 8652 I (RFCM) Radio Frequency Countermeasures |  |
| ID Code (A=Service Ready, $\mathrm{B}=$ Not Service Ready) : B | MDAP/MAIS Code: |  |  |  |  |  |
| Resource Summary | Prior Years | FY 2020 | FY 2021 | FY 2022 Base | FY 2022 OCO | FY 2022 Total |
| Procurement Quantity (Units in Each) | - | - | - | - | - | - |
| Gross/Weapon System Cost (\$ in Millions) | 62.529 | 0.000 | 28.900 | 0.000 | 0.000 | 0.000 |
| Less PY Advance Procurement (\$ in Millions) | - | - | - | - | - | - |
| Net Procurement (P-1) (\$ in Millions) | 62.529 | 0.000 | 28.900 | 0.000 | 0.000 | 0.000 |
| Plus CY Advance Procurement (\$ in Millions) | - | - | - | - | - | - |
| Total Obligation Authority (\$ in Millions) | 62.529 | 0.000 | 28.900 | 0.000 | 0.000 | 0.000 |
| (The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.) |  |  |  |  |  |  |
| Initial Spares (\$ in Millions) | - | - | - | - | - | - |
| Gross/Weapon System Unit Cost (\$ in Millions) | - | - | - | - | - | - |

## Description:





 the funding table labeled "Mod of Spares" is the procurement of initial spares.

Group A and B kit costs in FY19 and FY21 also include the costs for the CSO 2.5 delta kits that have been added to RFCM; therefore, the per unit kit cost is more.
The requirement is for 39 HC -130Js. Current funding includes the $39 \mathrm{HC}-130 \mathrm{~J}$ aircraft.
FY21 funds include $\$ 28.900 \mathrm{M}$ for Overseas Contingency Operations.
Milestone/Development Status
 definitized Contracting Action (UCA) was awarded in September 2020 to include procurement and installation of the CSO 2.5 kits. Definitization is on schedule to award the end of May 2021.

| Secondary Distribution |  | FY 2020 | FY 2021 | $\begin{gathered} \text { FY } 2022 \\ \text { Base } \end{gathered}$ | $\begin{gathered} \text { FY } 2022 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \text { FY } 2022 \\ \text { Total } \end{gathered}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| AF | Quantity | - | - | - | - | - |
|  | Total Obligation Authority | - | 28.900 | - | - | - |
| Total: <br> Secondary Distribution | Quantity | - | - | - | - | - |
|  | Total Obligation Authority | 0.000 | 28.900 | 0.000 | 0.000 | 0.000 |


| Exhibit P-3a, Individual Modification: PB 2022 Air Force |  |  |  |  | Date: May 2021 |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5 |  | P-1 Line Item Number / Title: HCMC00 / HC/MC-130 Modifications |  |  | Modification Number / Title: 8652 I (RFCM) Radio Frequency Countermeasures |  |
| ID Code (A=Service Ready, $\mathrm{B}=$ Not Service Ready) : B |  |  | MDAP/MAIS Code: |  |  |  |
| Models of Systems Affected: HC-130J | Modification Type: Capability Improvement |  |  | Related RDT\&E PEs: 0207224F |  |  |
|  | Prior Years | FY 2020 | FY 2021 | FY 2022 Base | FY 2022 OCO | FY 2022 Total |
| Financial Plan | $\begin{gathered} \text { Qty (Each) I } \\ \text { Total Cost (\$M) } \end{gathered}$ | $\begin{gathered} \text { Qty (Each) I } \\ \text { Total Cost (\$M) } \end{gathered}$ | Qty (Each) I Total Cost (\$ M) | $\begin{gathered} \text { Qty (Each) I } \\ \text { Total Cost (\$M) } \end{gathered}$ | Qty (Each) I Total Cost (\$ M) | $\begin{gathered} \text { Qty (Each) I } \\ \text { Total Cost (\$ M) } \end{gathered}$ |
| Procurement |  |  |  |  |  |  |
| Modification Item 1 of 1: RFCM |  |  |  |  |  |  |
| A Kits |  |  |  |  |  |  |
| Recurring |  |  |  |  |  |  |
| RFCM:INSTALL KITS Group A (Active) | 35/5.317 | - 1- | 4/4.841 | - 1- | - 1- | - 1- |
| Subtotal: Recurring | - 15.317 | - 1 - | - 14.841 | - 1- | -1. | - 1. |
| B Kits |  |  |  |  |  |  |
| Recurring |  |  |  |  |  |  |
| RFCM:EQUIPMENT Group B (Active) | 35/21.265 | - 1- | 4/19.365 | - 1- | -1- | -1- |
| Subtotal: Recurring | - /21.265 | -1- | - /19.365 | - 1- | - 1- | - 1- |
| Subtotal: RFCM | - /26.582 | 1- | - /24.206 | - / - | - / - | - 1 - |
| Subtotal: Procurement, All Modification Items | - /26.582 | -1- | - 124.206 | -1- | -1- | -1. |
| Support (All Modification Items) |  |  |  |  |  |  |
| GROUP A: TOTAL NONRECURRING | - 122.430 | - 1- | - 1- | - 1- | - 1- | -1- |
| Change Orders | - 11.104 | -1. | - 11.065 | -1- | -1- | -1- |
| SIM/TRAINER | - 15.961 | -1- | - 13.628 | -1- | - 1- | -1- |
| ICS-Material | - 10.022 | -1- | - 1 - | -1- | - 1- | -1- |
| OTHER GOVT | - 10.069 | -1- | - 1- | -1- | -1- | - 1- |
| Mod of Spares | - 15.378 | -1- | - 1- | - 1- | - 1- | -1- |
| Type 1 Training | - 10.724 | -1- | - 1- | -1- | -1- | - 1 - |
| PMA - Other Gov't Costs | - 1 - | -1. | - 10.001 | -1- | - 1- | -1- |
| SUPPORT-EQUIP | - 10.259 | -1. | - 1- | -1- | - 1- | -1- |
| Subtotal: Support | - /35.947 | - 1- | - 14.694 | - 1- | -1- | -1. |
| Installation |  |  |  |  |  |  |
| Subtotal: Installation | - 1. | - / - | - 1 - | - / - | - / - | -1. |
| Total |  |  |  |  |  |  |
| Total Cost (Procurement + Support + Installation) | 62.529 | 0.000 | 28.900 | 0.000 | 0.000 | 0.000 |



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| Exhibit P-3a, Individual Modification: PB 2022 Air Force |  |  |  |  | Date: May 2021 |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5 |  | P-1 Line Item Number / Title: HCMC00 / HC/MC-130 Modifications |  |  | Modification Number / Title: 8658 / Paratroop Door |  |
| ID Code (A=Service Ready, B=Not Service Ready) : B |  |  | MDAP/MAIS Code: |  |  |  |
| Models of Systems Affected: HC-130J | Modification Type: Capability Improvement |  |  | Related RDT\&E PEs: 0207224F |  |  |
|  | Prior Years | FY 2020 | FY 2021 | FY 2022 Base | FY 2022 OCO | FY 2022 Total |
| Financial Plan | $\begin{gathered} \text { Qty (Each) I } \\ \text { Total Cost }(\$ M) \end{gathered}$ | $\begin{gathered} \text { Qty (Each) I } \\ \text { Total Cost (\$M) } \end{gathered}$ | $\begin{gathered} \text { Qty (Each) I } \\ \text { Total Cost (\$ M) } \end{gathered}$ | $\begin{gathered} \text { Qty (Each)I } \\ \text { Total Cost (\$M) } \end{gathered}$ | $\begin{gathered} \text { Qty (Each)I } \\ \text { Total Cost (\$ M) } \end{gathered}$ | $\begin{gathered} \text { Qty (Each) I } \\ \text { Total Cost }(\$ M) \end{gathered}$ |
| Procurement |  |  |  |  |  |  |
| Modification Item 1 of 1: Paratroop Kits |  |  |  |  |  |  |
| B Kits |  |  |  |  |  |  |
| Recurring |  |  |  |  |  |  |
| Paratroop Kits:EQUIPMENT Group B (Active) | 18/24.500 | - 1- | - 1- | - 1- | - 1- | - 1- |
| Subtotal: Recurring | - 124.500 | - 1- | - 1- | - 1- | - 1 - | - 1. |
| Subtotal: Paratroop Kits | - /24.500 | 1 | 1 - | - 1 | - 1 - | 1 - |
| Subtotal: Procurement, All Modification Items | - 124.500 | - 1- | - 1- | - 1. | -1. | -1. |
| Installation |  |  |  |  |  |  |
| Subtotal: Installation | - 1 - | - / - | - / - | - / - | - / - | - 1 - |
| Total |  |  |  |  |  |  |
| Total Cost (Procurement + Support + Installation) | 24.500 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |

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| Exhibit P-3a, Individual Modification: PB 2022 Air Force |  |  |  |  | Date: May 2021 |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3010F/05/5 | P-1 Line Item Number / Title: HCMC00 / HC/MC-130 Modifications |  |  |  | Modification Number / Title: 8659 / Broadband Antenna |  |
| ID Code (A=Service Ready, B=Not Service Ready) : B |  |  | MDAP/MAIS Code: |  |  |  |
| Resource Summary | Prior Years | FY 2020 | FY 2021 | FY 2022 Base | FY 2022 OCO | FY 2022 Total |
| Procurement Quantity (Units in Each) | - | - | - | - | - |  |
| Gross/Weapon System Cost (\$ in Millions) | 9.400 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| Less PY Advance Procurement (\$ in Millions) | - | - | - | - | - | - |
| Net Procurement (P-1) (\$ in Milions) | 9.400 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| Plus CY Advance Procurement (\$ in Millions) | - | - | - | - | - | - |
| Total Obligation Authority (\$ in Millions) | 9.400 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| (The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.) |  |  |  |  |  |  |
| Initial Spares (\$ in Millions) | - - | - | - | - | - | - |
| Gross/Weapon System Unit Cost (\$ in Millions) | - | - | - | - | - | - |
| Description: |  |  |  |  |  |  |
| Equips the MC-130J with an airborne satellite terminal that delivers over the horizon high-speed IP communications (Full motion video link). |  |  |  |  |  |  |
| Current funding includes but is not limited to aircraft kits, OFP (Operational Flight Program) builds, associated training, tech data, RSPs, aircraft verification/qualification, and other government costs required for installation on up to 6 aircraft. |  |  |  |  |  |  |
| The remaining fleet will be outfitted under the Air-borne Mission Networking (AbMN) program. |  |  |  |  |  |  |
| Milestone/Development Status |  |  |  |  |  |  |
| Milestone: N/A |  |  |  |  |  |  |

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| Exhibit P-3a, Individual Modification: PB 2022 Air Force |  |  |  |  | Date: May 2021 |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5 |  | P-1 Line Item Number / Title: HCMC00 / HC/MC-130 Modifications |  |  | Modification Number / Title: 8659 / Broadband Antenna |  |
| ID Code (A=Service Ready, B=Not Service Ready) : B |  |  | MDAP/MAIS Code: |  |  |  |
| Models of Systems Affected: MC-130J | Modification Type: Capability Improvement |  |  | Related RDT\&E PEs: 0207230F |  |  |
|  | Prior Years | FY 2020 | FY 2021 | FY 2022 Base | FY 2022 OCO | FY 2022 Total |
| Financial Plan | $\begin{gathered} \text { Qty (Each) I } \\ \text { Total Cost }(\$ M) \end{gathered}$ | $\begin{gathered} \text { Qty (Each) I } \\ \text { Total Cost (\$M) } \end{gathered}$ | $\begin{gathered} \text { Qty (Each) I } \\ \text { Total Cost (\$ M) } \end{gathered}$ | $\begin{gathered} \text { Qty (Each)I } \\ \text { Total Cost (\$M) } \end{gathered}$ | $\begin{gathered} \text { Qty (Each)I } \\ \text { Total Cost (\$ M) } \end{gathered}$ | $\begin{gathered} \text { Qty (Each) I } \\ \text { Total Cost (\$ M) } \end{gathered}$ |
| Procurement |  |  |  |  |  |  |
| Modification Item 1 of 1: Group A Kits |  |  |  |  |  |  |
| A Kits |  |  |  |  |  |  |
| Recurring |  |  |  |  |  |  |
| Group A Kits:INSTALL KITS Group A (Active) | 4/9.400 | - 1- | - 1- | - 1- | - 1- | - 1- |
| Subtotal: Recurring | - 19.400 | - 1- | - 1- | - 1- | - 1 - | - 1. |
| Subtotal: Group A Kits | - 19.400 | 1 | 1 - | - 1 | - 1 - | - 1 - |
| Subtotal: Procurement, All Modification Items | - 19.400 | - 1. | - 1- | - 1. | -1. | -1. |
| Installation |  |  |  |  |  |  |
| Subtotal: Installation | - 1 - | - / - | - / - | - / - | - / - | - 1 - |
| Total |  |  |  |  |  |  |
| Total Cost (Procurement + Support + Installation) | 9.400 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |

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| Exhibit P-3a, Individual Modification: PB 2022 Air Force |  |  | Date: May 2021 |
| :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5 | P-1 Line Item Number / Title: HCMC00 / HC/MC-130 Modifications |  | Modification Number / Title: 8659 / Broadband Antenna |
| ID Code (A=Service Ready, B=Not Service Ready) : B |  | MDAP/MAIS Code: |  |
| Modification Item 1 of 1: Group A Kits |  |  |  |
| Manufacturer Information |  |  |  |
| Manufacturer Name: Sierra Nevada Corporation |  | Manufacturer Location: Sparks,NV |  |
| Administrative Leadtime (in Months): 2 |  | Production Leadtime (in Months): 15 |  |
| Dates | FY 2020 | FY 2021 | FY 2022 |
| Contract Dates |  |  |  |
| Delivery Dates |  |  |  |
|  |  |  |  |
| Installation Information |  |  |  |
| Method of Implementation (Organic): Org/Intermediate |  | Installation Quantity: 4 |  |


| Exhibit P-3a, Individual Modification: PB 2022 Air Force |  |  |  |  | Date: May 2021 |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5 | P-1 Line Item Number / Title: HCMC00 / HC/MC-130 Modifications |  |  |  | Modification Number / Title: 8762 / MC-130J Link 16 |  |
| ID Code (A=Service Ready, B=Not Service Ready) : B | MDAP/MAIS Code: |  |  |  |  |  |
| Resource Summary | Prior Years | FY 2020 | FY 2021 | FY 2022 Base | FY 2022 OCO | FY 2022 Total |
| Procurement Quantity (Units in Each) | - | - | - | - | - | - |
| Gross/Weapon System Cost (\$ in Millions) | 0.000 | 0.000 | 4.420 | 0.000 | 0.000 | 0.000 |
| Less PY Advance Procurement (\$ in Millions) | - | - | - | - | - | - |
| Net Procurement (P-1) (\$ in Millions) | 0.000 | 0.000 | 4.420 | 0.000 | 0.000 | 0.000 |
| Plus CY Advance Procurement (\$ in Millions) | - | - | - | - | - | - |
| Total Obligation Authority (\$ in Millions) | 0.000 | 0.000 | 4.420 | 0.000 | 0.000 | 0.000 |
| (The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.) |  |  |  |  |  |  |
| Initial Spares (\$ in Milions) | - | - | - | - | - | - |
| Gross/Weapon System Unit Cost (\$ in Millions) | - | - | - | - | - | - |

## Description:




 is completed.

This funding request will support potential DMS and obsolescence solutions, to include if optimal, life of type buys or bridge buys limited to the program of record quantity.
This program includes, but is not limited to, kits, training, spares, support equipment, deployment packages and other government costs.
 the funding table labeled "Mod of Spares" is the procurement of initial spares.

Requirement is $13 \mathrm{MC}-130 \mathrm{~J}$ aircraft.
Milestone/Development Status
Milestone Development Status: N/A

| Secondary Distribution |  | FY 2020 | FY 2021 | $\begin{gathered} \text { FY } 2022 \\ \text { Base } \end{gathered}$ | $\begin{gathered} \text { FY } 2022 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \text { FY } 2022 \\ \text { Total } \end{gathered}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| AF | Quantity | - | - | - | - | - |
|  | Total Obligation Authority | - | 4.420 | 0.000 | - | 0.000 |
| Total: <br> Secondary Distribution | Quantity | - | - | - | - | - |
|  | Total Obligation Authority | 0.000 | 4.420 | 0.000 | 0.000 | 0.000 |

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| Exhibit P-3a, Individual Modification: PB 2022 Air Force |  |  |  |  | Date: May 2021 |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5 |  | P-1 Line Item Number / Title: HCMC00 / HC/MC-130 Modifications |  |  | Modification Number / Title: 8762 / MC-130J Link 16 |  |
| ID Code (A=Service Ready, B=Not Service Ready) : B |  |  | MDAP/MAIS Code: |  |  |  |
| Models of Systems Affected: MC-130J | Modification Type: Capability Improvement |  |  | Related RDT\&E PEs: |  |  |
|  | Prior Years | FY 2020 | FY 2021 | FY 2022 Base | FY 2022 OCO | FY 2022 Total |
| Financial Plan | $\begin{gathered} \text { Qty (Each) I } \\ \text { Total Cost (\$ M) } \\ \hline \end{gathered}$ | $\begin{gathered} \text { Qty (Each) I } \\ \text { Total Cost (\$M) } \\ \hline \end{gathered}$ | $\begin{gathered} \text { Qty (Each) I } \\ \text { Total Cost (\$M) } \\ \hline \end{gathered}$ | $\begin{gathered} \text { Qty (Each) I } \\ \text { Total Cost (\$ M) } \\ \hline \end{gathered}$ | $\begin{gathered} \text { Qty (Each) I } \\ \text { Total Cost (\$ M) } \\ \hline \end{gathered}$ | $\begin{gathered} \text { Qty (Each) I } \\ \text { Total Cost }(\$ M) \\ \hline \end{gathered}$ |
| Procurement |  |  |  |  |  |  |
| Modification Item 1 of 1: MC Link 16 B Kit |  |  |  |  |  |  |
| B Kits |  |  |  |  |  |  |
| Recurring |  |  |  |  |  |  |
| MC Link 16 B Kit:EQUIPMENT Group B (Active) | -1. | -1- | 13/2.002 | - 1- | - 1- | - 1- |
| Subtotal: Recurring | - 1- | - 1- | - 12.002 | - 1- | - 1- | - 1- |
| Subtotal: MC Link 16 B Kit | - 1- | - 1- | - 12.002 | - 1 - | - 1- | - 1 - |
| Subtotal: Procurement, All Modification Items | - 1- | - 1- | - $/ 2.002$ | - 1- | - 1 - | - 1. |
| Support (All Modification Items) |  |  |  |  |  |  |
| OTHER GOVT | - 1- | - 1- | - 10.025 | - 1- | - 1 - | - 1. |
| MOD OF SPARES | -1. | 1 - | - 10.423 | - 1- | -1. | - 1. |
| SUPPORT-EQUIP | -1. | $1-$ | - 10.150 | -1- | -1. | -1. |
| Subtotal: Support | - 1- | - 1- | - 10.598 | - 1. | - 1. | - 1. |
| Installation |  |  |  |  |  |  |
| Modification Item 1 of 1: MC Link 16 B Kit | - 1- | $1-$ | 0/1.820 | 810.000 | - 1 - | $8 / 0.000$ |
| Subtotal: Installation | - 1- | - 1- | - /1.820 | 810.000 | - 1- | 8/0.000 |
| Total |  |  |  |  |  |  |
| Total Cost (Procurement + Support + Installation) | 0.000 | 0.000 | 4.420 | 0.000 | 0.000 | 0.000 |

## UNCLASSIFIED



| Exhibit P-3a, Individual Modification: PB 2022 Air Force |  |  |  |  | Date: May 2021 |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5 | P-1 Line Item Number / Title: HCMC00 / HC/MC-130 Modifications |  |  | Modification Number / Title: 8764 / Trainer Modifications |  |  |
| ID Code (A=Service Ready, B=Not Service Ready) : B |  |  | MDAP/MAIS Code: |  |  |  |
| Resource Summary | Prior Years | FY 2020 | FY 2021 | FY 2022 Base | FY 2022 OCO | FY 2022 Total |
| Procurement Quantity (Units in Each) | - | - | - | - | - | - |
| Gross/Weapon System Cost (\$ in Millions) | - | 0.000 | 0.000 | 83.617 | 0.000 | 83.617 |
| Less PY Advance Procurement (\$ in Millions) | - | - | - | - | - | - |
| Net Procurement (P-1) (\$ in Millions) | - | 0.000 | 0.000 | 83.617 | 0.000 | 83.617 |
| Plus CY Advance Procurement (\$ in Millions) | - | - | - | - | - | - |
| Total Obligation Authority (\$ in Millions) | - | 0.000 | 0.000 | 83.617 | 0.000 | 83.617 |
| (The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.) |  |  |  |  |  |  |
| Initial Spares (\$ in Millions) | - | - | - | - | - | - |
| Gross/Weapon System Unit Cost (\$ in Millions) | - | - | - | - | - | - |

## Description:

This program, P-3A Mod 8764, Trainer Modifications, is a new start.
 for aircrews and maintenance crews.

 out), and Large Aircraft Infra-Red Countermeasures (LAIRCM) capabilities.

This funding will support potential DMS and obsolescence solutions, to include if optimal, life of type buys or bridge buys limited to the program of record quantity.
This Modification also includes the upgrade of the AC Weapons Systems Trainer (WST) to an AC-130J configuration
Milestone/Development Status
Complete

| Secondary Distribution |  | FY 2020 | FY 2021 | $\begin{aligned} & \text { FY } 2022 \\ & \text { Base } \end{aligned}$ | $\begin{gathered} \text { FY } 2022 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \text { FY } 2022 \\ \text { Total } \end{gathered}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| AF | Quantity | - | - | - | - | - |
|  | Total Obligation Authority | - | - | 83.617 | - | 83.617 |
| Total: <br> Secondary Distribution | Quantity | - | - | - | - | - |
|  | Total Obligation Authority | 0.000 | 0.000 | 83.617 | 0.000 | 83.617 |

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| Exhibit P-3a, Individual Modification: PB 2022 Air Force |  |  |  |  | Date: May 2021 |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5 |  | P-1 Line Item Number / Title: HCMC00 / HC/MC-130 Modifications |  |  | Modification Number / Title: 8764 / Trainer Modifications |  |
| ID Code (A=Service Ready, B=Not Service Ready) : B |  |  | MDAP/MAIS Code: |  |  |  |
| Models of Systems Affected: MC-130J | Modification Type: Capability Improvement   <br> Prior Years FY 2020 FY 2021 |  |  | Related RDT\&E PEs: |  |  |
|  |  |  |  | FY 2022 Base | FY 2022 OCO | FY 2022 Total |
| Financial Plan | $\begin{gathered} \text { Qty (Each) I } \\ \text { Total Cost (\$ M) } \end{gathered}$ | $\begin{gathered} \text { Qty (Each) I } \\ \text { Total Cost (\$M) } \end{gathered}$ | $\begin{gathered} \text { Qty (Each) I } \\ \text { Total Cost (\$ M) } \end{gathered}$ | $\begin{gathered} \text { Qty (Each) I } \\ \text { Total Cost }(\$ M) \\ \hline \end{gathered}$ | $\begin{gathered} \text { Qty (Each) I } \\ \text { Total Cost (\$ M) } \end{gathered}$ | $\begin{gathered} \text { Qty (Each) I } \\ \text { Total Cost (\$M) } \end{gathered}$ |
| Procurement |  |  |  |  |  |  |
| Modification Item 1 of 2: LVC |  |  |  |  |  |  |
| B Kits |  |  |  |  |  |  |
| Recurring |  |  |  |  |  |  |
| LVC:EQUIPMENT Group B (Active) | - 1- | - 1- | 1 - | 1/35.917 | 1 - | 1/35.917 |
| Subtotal: Recurring | - 1- | - 1- | - 1- | - /35.917 | -1- | - /35.917 |
| Subtotal: LVC | - 1 - | - 1 - | - 1 - | - /35.917 | - / - | - /35.917 |
| Modification Item 2 of 2: Trainer (2) |  |  |  |  |  |  |
| B Kits |  |  |  |  |  |  |
| Recurring |  |  |  |  |  |  |
| Trainer:EQUIPMENT Group B (Active) | - 1- | - 1- | - 1- | $12 / 47.700$ | - 1 - | $12 / 47.700$ |
| Subtotal: Recurring | - 1- | - 1- | 1 - | - 147.700 | - 1- | - 147.700 |
| Subtotal: Trainer (2) | - 1 - | - 1 - | - / - | - 147.700 | - / - | - 147.700 |
| Subtotal: Procurement, All Modification Items | - 1- | - 1 | - 1- | - /83.617 | 1 | - /83.617 |
| Installation |  |  |  |  |  |  |
| Modification Item 1 of 2: LVC | - 1 - | - 1 - | - 1 - | 1/0.000 | 1 - | 1/0.000 |
| Subtotal: Installation | - 1- | - 1- | - 1- | 1/0.000 | - 1- | 1/0.000 |
| Total |  |  |  |  |  |  |
| Total Cost (Procurement + Support + Installation) | $\cdot$ | 0.000 | 0.000 | 83.617 | 0.000 | 83.617 |

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| Exhibit P-3a, Individual Modification: PB 2022 Air Force |  |  |  |  | Date: May 2021 |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5 | P-1 Line Item Number / Title: HCMC00 / HC/MC-130 Modifications |  |  |  | Modification Number / Title: 1 / HC- Low Cost Modifications |  |
| ID Code (A=Service Ready, $\mathrm{B}=$ Not Service Ready) : A | MDAP/MAIS Code: |  |  |  |  |  |
| Resource Summary | Prior Years | FY 2020 | FY 2021 | FY 2022 Base | FY 2022 OCO | FY 2022 Total |
| Procurement Quantity (Units in Each) | - | - | - | - | - | - |
| Gross/Weapon System Cost (\$ in Millions) | 8.503 | 0.000 | 1.366 | 0.018 | 0.000 | 0.018 |
| Less PY Advance Procurement (\$ in Millions) | - | - | - | - | - | - |
| Net Procurement (P-1) (\$ in Millions) | 8.503 | 0.000 | 1.366 | 0.018 | 0.000 | 0.018 |
| Plus CY Advance Procurement (\$ in Millions) | - | - | - | - | - | - |
| Total Obligation Authority (\$ in Millions) | 8.503 | 0.000 | 1.366 | 0.018 | 0.000 | 0.018 |
| (The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.) |  |  |  |  |  |  |
| Initial Spares (\$ in Millions) | - | - | - | - | - | - |
| Gross/Weapon System Unit Cost (\$ in Millions) | - | - | - | - | - | - |

## Description:


 buys or bridge buys limited to the program of record quantity. HC Low Cost Modifications may include installation costs depending upon the modification.

Milestone/Development Status
NA

| Secondary Distribution |  | FY 2020 | FY 2021 | $\begin{gathered} \text { FY } 2022 \\ \text { Base } \end{gathered}$ | $\begin{aligned} & \text { FY } 2022 \\ & \text { OCO } \end{aligned}$ | $\begin{gathered} \text { FY } 2022 \\ \text { Total } \end{gathered}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| AF | Quantity | - | - | - | - | - |
|  | Total Obligation Authority | - | 1.366 | 0.018 | - | 0.018 |
| Total: <br> Secondary Distribution | Quantity | - | $\bullet$ | $\bullet$ | - | - |
|  | Total Obligation Authority | 0.000 | 1.366 | 0.018 | 0.000 | 0.018 |

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Appropriation / Budget Activity / Budget Sub Activity:
3010F: Aircraft Procurement, Air Force / BA 05: Modification of Inservice Aircraft /
BSA 5: Other Aircraft

## P-1 Line Item Number / Title: <br> OTHACF / Other Aircraft

 BSA 5: Other Aircraft| ID Code (A=Service Ready, B=Not Service Ready) |  |  | Program Elements for Code B Items: 0207224F, 0207701F, 0401897F |  |  |  |  | Other Related Program Elements: 0207224F, 0207249F, 0207701F, 0401897F |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Line Item MDAP/MAIS Code: N/A |  |  |  |  |  |  |  |  |  |  |  |  |
| Resource Summary | Prior <br> Years | FY 2020 | FY 2021 | FY 2022 Base | $\begin{gathered} \text { FY } 2022 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \text { FY } 2022 \\ \text { Total } \end{gathered}$ | FY 2023 | FY 2024 | FY 2025 | FY 2026 | To Complete | Total |
| Procurement Quantity (Units in Each) | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Cost (\$ in Millions) | 476.941 | 50.098 | 100.774 | 54.828 | - | 54.828 | - | - | - | - | - | - |
| Less PY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Net Procurement (P-1) (\$ in Millions) | 476.941 | 50.098 | 100.774 | 54.828 | - | 54.828 | - | - | - | - | - | - |
| Plus CY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Total Obligation Authority (\$ in Millions) | 476.941 | 50.098 | 100.774 | 54.828 | - | 54.828 | - | - | - | - | - | - |
| (The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.) |  |  |  |  |  |  |  |  |  |  |  |  |
| Initial Spares (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Flyaway Unit Cost (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Unit Cost (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |

## Description:

This line item funds multiple modifications that apply to weapon systems funded at less than 2 million per year as well as weapon systems with much greater budgets. The overall goal of the modifications budgeted is to enhance capability and improve reliability and maintainability.

Funding contained in this platform's documentation directly aids simulator aircraft training systems training enterprise to continue its overall FYDP pilot production increase, thus reducing the USAF pilot shortage.
Battlefield Airborne Communications Node (BACN) provides a Combatant Commander (CCDR) flexible, long-endurance, responsive airborne communications capability. BACN provides a dedicated airborne capability to conduct voice bridging/translation, Tactical Data Link (TDL) gateway, and TDL relay functions for beyond-line-of-sight (BLOS) data communications for the war fighter. Funding for this exhibit contained in PE 0207610F.

Mobility Air Forces (MAF) Training supports the modification and enhancement of high fidelity MAF aircrew training and support systems to meet combat readiness needs, to include efforts to ensure full employment of Distributed Mission Operations (DMO) capabilities. FY21 funding establishes DMO capability of C-130J Maintenance and Aircrew Training Systems.

Advanced Targeting Pods (ATPs) provide long-range target acquisition and expanded weapon delivery envelopes for greater aircraft survivability. ATP capabilities, such as high resolution imagery, larger aperture, eye safe laser, high system reliability and smaller deployment footprint provide greater combat effectiveness across several mission areas.

Funding for this exhibit contained in PE 0207228F, 0207224F, 0207249F, 0303601F, 0401897F.
Beginning in FY21, to support the divestiture of the EQ-4B (a variant of the RQ-4 Block 20/30 aircraft) efforts will taper accordingly, to include BACN payload sustainment \& other BACN specific efforts.
In accordance with Section 1815 of the FY 2008 National Defense Authorization Act (P.L. 110-181), this item is necessary for use by the active and reserve components of the Armed Forces for homeland defense mission, domestic emergency responses, and providing military support to civilian authorities.

Funding may be used to address Diminishing Manufacturing Sources (DMS) issues.

Exhibit P-40, Budget Line Item Justification: PB 2022 Air Force
Appropriation / Budget Activity / Budget Sub Activity:
3010F: Aircraft Procurement, Air Force / BA 05: Modification of Inservice Aircraft /
BSA 5: Other Aircraft

## P-1 Line Item Number / Title: <br> OTHACF / Other Aircraft

Program Elements for Code B Items: 0207224F, 0207701F, 0401897F

Other Related Program Elements: 0207224F, 0207249F, 0207701F, 0401897F

| ID Code (A=Service Ready, B=Not Service Ready): |  | Program Elements for Code B Items: 0207224F, 0207701F, 0401897F |  |  |  |  |  | Other Related Program Elements: 0207224F, 0207249F, 0207701F, 0401897F |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Line Item MDAP/MAIS Code: N/A |  |  |  |  |  |  |  |  |  |  |
| Exhibits Schedule |  |  |  |  | Prior Years | FY 2020 | FY 2021 | FY 2022 Base | FY 2022 OCO | FY 2022 Total |
| Exhibit Type | Title* | Subexhibits | $\begin{aligned} & \mathrm{ID} \\ & \mathrm{CD} \end{aligned}$ | MDAP/ MAIS Code | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost <br> (Each) I (\$ M) |
| P-40a*** | 8669 / Full Combat Mission Training (Capability Improvement) |  |  |  | - 176.404 | - 10.000 | - 14.595 | - 10.000 | - 1 | - 10.000 |
| P-40a*** | 8670 / MAF Training (Capability Improvement) |  |  |  | - / 33.686 | - 10.100 | - /16.505 | - 10.097 | - 1 | - 10.097 |
| P-40a*** | 8674 / ATP upgrade Legacy to SE (Other) |  |  |  | - /106.217 | - 129.861 | - 125.926 | - 10.227 | - 1 | - 10.227 |
| P-40a*** | 8735 / DAS000 (ROBE) (Capability Improvement) |  |  |  | / 10.400 | 1 | - 1 - | 1 | - 1 - | - 1 |
| P-40a*** | 8736 / Counterdrug USSOUTHCOM Support (No text provided.) |  |  |  | - 11.200 | - 1 - | - 1 - | - 1 - | - 1 - | - 1 - |
| P-40a** | 99999J / MISCELLANEOUS LOW COSTS MODS (Combat Developments) (Other) |  |  |  | - / 142.935 | - 14.616 | - 10.154 | - 10.157 | - 1 - | - / 0.157 |
| P-40a*** | HH-60U / HH-60U (Capability Improvement) |  |  |  | - 13.608 | - 11.900 | - 11.897 | - 11.861 | - 1 | - 11.861 |
| P-3a | 8675 / ATP-SE Technology Insertion (Capability Improvement) |  | A |  | - 187.376 | - /13.621 | - / 13.846 | - / 13.851 | - 10.000 | / 13.851 |
| P-3a | 8733 / Battlefield ABN Comm Node (BACN) (Other) |  | A |  | - / 15.115 | - 10.000 | - 137.851 | - 138.635 | - 10.000 | 138.635 |
| P-40 | Total Gross/Weapon System Cost |  |  |  | - 1476.941 | - 150.098 | - /100.774 | - 154.828 | 1 - | - 154.828 |

*** Although this is an Exhibit P-40a item, the actual exhibit is not included since all of the required information for this item is already being shown here.
*Title represents 1) the Number / Title for Items; 2) the Number / Title [DODIC] for Ammunition; and/or 3) the Number / Title (Modification Type) for Modifications
Note: Totals in this Exhibit P-40 set may not be exact or sum exactly due to rounding

## Justification:

 systems, to include Interim Contract Support.

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| Exhibit P-3a, Individual Modification: PB 2022 Air Force |  |  |  |  | Date: May 2021 |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity 3010F / 05 / 5 | P-1 Line Item Number / Title: OTHACF / Other Aircraft |  |  |  | Modification Number / Title: 8675 / ATP-SE Technology Insertion |  |
| ID Code (A=Service Ready, $\mathrm{B}=$ Not Service Ready) : A | MDAP/MAIS Code: |  |  |  |  |  |
| Resource Summary | Prior Years | FY 2020 | FY 2021 | FY 2022 Base | FY 2022 OCO | FY 2022 Total |
| Procurement Quantity (Units in Each) | - | - | - | - | - | - |
| Gross/Weapon System Cost (\$ in Millions) | 87.376 | 13.621 | 13.846 | 13.851 | 0.000 | 13.851 |
| Less PY Advance Procurement (\$ in Millions) | - | - | - | - | - | - |
| Net Procurement (P-1) (\$ in Millions) | 87.376 | 13.621 | 13.846 | 13.851 | 0.000 | 13.851 |
| Plus CY Advance Procurement (\$ in Millions) | - | - | - | - | - | - |
| Total Obligation Authority (\$ in Millions) | 87.376 | 13.621 | 13.846 | 13.851 | 0.000 | 13.851 |
| (The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.) |  |  |  |  |  |  |
| Initial Spares (\$ in Millions) | - | - | - | - | - | - |
| Gross/Weapon System Unit Cost (\$ in Millions) | - | - | - | - | - | - |

## Description:

This effort improves the critical capability of Combat Identification (CID). The LITENING and Sniper ATP contracts will address requirements centered on hardware and software upgrades and associated host platform integration (to include necessary test), modification of spares, correction of service life deficiencies, technical orders, repair data, studies and support of organic depot repair requirements. Modification of legacy pods to ATP-sensor enhancement (SE) standards may be necessary for modifications. In addition, this requirement provides for program management support (PMA). Funds may be used to address emerging and short-notice Diminishing Manufacturing and Material Shortage (DMSMS) issues.

Quantities will vary based on funding, negotiated prices and COCOM requirements.
Milestone/Development Status
ATP reached Full Operational Capability (FOC) July 2017
Milestone/Development Status
Upgrades will incorporate capabilities developed by industry and through the SE contract.

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| Exhibit P-3a, Individual Modification: PB 2022 Air Force |  |  |  |  | Date: May 2021 |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5 |  | P-1 Line Item Number / Title: <br> OTHACF / Other Aircraft |  |  | Modification Number / Title: 8675 / ATP-SE Technology Insertion |  |
| ID Code (A=Service Ready, B=Not Service Ready) : A |  |  | MDAP/MAIS Code: |  |  |  |
| Models of Systems Affected: A-10, F-15C, F-15E, F-16, B-1, B-52 |  | Modification Type: Capability Improvement |  | Related RDT\&E PEs: 0207249F |  |  |
|  | Prior Years | FY 2020 | FY 2021 | FY 2022 Base | FY 2022 OCO | FY 2022 Total |
| Financial Plan | Qty (Each) I Total Cost (\$ M) | Qty (Each) I Total Cost (\$ M) | Qty (Each) I <br> Total Cost (\$ M) | Qty (Each) I <br> Total Cost (\$ M) | Qty (Each) I Total Cost (\$ M) | Qty (Each) I Total Cost (\$ M) |
| Procurement |  |  |  |  |  |  |
| Modification Item 1 of 1: Upgrade Kit (2) |  |  |  |  |  |  |
| A Kits |  |  |  |  |  |  |
| Recurring |  |  |  |  |  |  |
| Upgrade Kit:INSTALL KITS Group A (Active) | $309 / 61.756$ | $144 / 10.821$ | $144 / 11.046$ | 144/11.321 | - 1- | 144/11.321 |
| Subtotal: Recurring | - /61.756 | - /10.821 | - /11.046 | - /11.321 | - 1 - | - /11.321 |
| Subtotal: Upgrade Kit (2) | - /61.756 | - /10.821 | - /11.046 | - /11.321 | - / - | - /11.321 |
| Subtotal: Procurement, All Modification Items | - /61.756 | - /10.821 | - /11.046 | - /11.321 | - 1 - | - /11.321 |
| Support (All Modification Items) |  |  |  |  |  |  |
| GROUP A: TOTAL NONRECURRING | - 122.000 | - 1- | - 1- | - 1- | - 1- | - 1- |
| PMA - Contractor Services | - 10.600 | - 10.600 | - 10.600 | - 10.400 | - 1 - | - 10.400 |
| PMA - Other Gov't Costs | - 10.200 | - 10.200 | - 10.200 | - 10.130 | - 1 - | - 10.130 |
| Subtotal: Support | - /22.800 | - 10.800 | - 10.800 | - 10.530 | - 1 - | - 10.530 |
| Installation |  |  |  |  |  |  |
| Modification Item 1 of 1: Upgrade Kit (2) | 89/2.820 | $148 / 2.000$ | 144/2.000 | 144/2.000 | - 1 | $144 / 2.000$ |
| Subtotal: Installation | 89/2.820 | 148/2.000 | 144/2.000 | 144/2.000 | - 1 - | 144/2.000 |
| Total |  |  |  |  |  |  |
| Total Cost (Procurement + Support + Installation) | 87.376 | 13.621 | 13.846 | 13.851 | 0.000 | 13.851 |

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| Exhibit P-3a, Individual Modification: PB 2022 Air Force |  |  |  |  | Date: May 2021 |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5 | P-1 Line Item Number / Title: OTHACF / Other Aircraft |  |  |  | Modification Number / Title: <br> 8733 / Battlefield ABN Comm Node (BACN) |  |
| ID Code (A=Service Ready, B=Not Service Ready) : A | MDAP/MAIS Code: |  |  |  |  |  |
| Resource Summary | Prior Years | FY 2020 | FY 2021 | FY 2022 Base | FY 2022 OCO | FY 2022 Total |
| Procurement Quantity (Units in Each) | - | - | - | - | - | - |
| Gross/Weapon System Cost (\$ in Millions) | 15.115 | 0.000 | 37.851 | 38.635 | 0.000 | 38.635 |
| Less PY Advance Procurement (\$ in Millions) | - | - | - | - | - | - |
| Net Procurement (P-1) (\$ in Milions) | 15.115 | 0.000 | 37.851 | 38.635 | 0.000 | 38.635 |
| Plus CY Advance Procurement (\$ in Millions) | - | - | - | - | - | - |
| Total Obligation Authority (\$ in Millions) | 15.115 | 0.000 | 37.851 | 38.635 | 0.000 | 38.635 |
| (The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.) |  |  |  |  |  |  |
| Initial Spares (\$ in Millions) | - | - | - | - | - | - |
| Gross/Weapon System Unit Cost (\$ in Millions) | - | - | - | - | - | - |

## Description:

This program, P-3A Mod 8733, Battlefield ABN Comm Node (BACN).


 Flight Bags (EFB).

Funding will support procurement of aircraft engines to increase current BACN fleet service life expectancy and availability.
Funding for this exhibit contained in PE 0207610F.
BACN green platform procurement and integration activities support out of P-1 Line Item \#99 E011A0/E-11A BACN in PE: 0207238F.
Milestone/Development Status

 future emerging technologies, such as High Capacity Backbone (HCB), and Protected Tactical Waveform (PTW).

 terminal reference.
 alteration, conversion, modernization, and transition to a normalized Program of Record.
 include, but not be limited to, standardization of avionics baseline and the production of all Supplemental Type Certificates of the most up to date configurations of the fleet.

## UNCLASSIFIED

Page 6 of 8
P-1 Line \#66
Volume 2-508

## UNCLASSIFIED

| Exhibit P-3a, Individual Modification: PB 2022 Air Force |  |  |  |  | Date: May 2021 |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5 |  | P-1 Line Item Number / Title: OTHACF / Other Aircraft |  |  | Modification Number / Title: <br> 8733 / Battlefield ABN Comm Node (BACN) |  |
| ID Code (A=Service Ready, B=Not Service Ready) : A |  |  | MDAP/MAIS Code: |  |  |  |
| Models of Systems Affected: MULTI |  | Modification Type: Other |  | Related RDT\&E PEs: |  |  |
|  | Prior Years | FY 2020 | FY 2021 | FY 2022 Base | FY 2022 OCO | FY 2022 Total |
| Financial Plan | Qty (Each) I Total Cost (\$ M) | Qty (Each) I Total Cost (\$ M) | Qty (Each) I Total Cost (\$ M) | Qty (Each) I Total Cost (\$ M) | Qty (Each) I Total Cost (\$ M) | Qty (Each) I Total Cost (\$ M) |
| Procurement |  |  |  |  |  |  |
| Modification Item 1 of 1: BACN Aircraft |  |  |  |  |  |  |
| A Kits |  |  |  |  |  |  |
| Recurring |  |  |  |  |  |  |
| BACN Aircraft:INSTALL KITS Group A (Active) | 1/7.000 | 1 - | 1/18.945 | 1/19.328 | - 1 - | 1/19.328 |
| Subtotal: Recurring | - 17.000 | - 1- | - /18.945 | - /19.328 | - 1 - | - /19.328 |
| Subtotal: BACN Aircraft | - 17.000 | 1 | - /18.945 | - /19.328 | / - | - /19.328 |
| Subtotal: Procurement, All Modification Items | - 17.000 | 1 | - /18.945 | - /19.328 | - 1 - | - /19.328 |
| Support (All Modification Items) |  |  |  |  |  |  |
| GROUP A: TOTAL NONRECURRING | - 1 - | $1-$ | - 11.461 | - 11.486 | 1 - | - 11.486 |
| Subtotal: Support | - 1 - | - 1 - | - 11.461 | - 11.486 | - 1 | - 11.486 |
| Installation |  |  |  |  |  |  |
| Modification Item 1 of 1: BACN Aircraft | 1/8.115 | 1. | 1/17.445 | 1/17.821 | - 1 - | 1/17.821 |
| Subtotal: Installation | 1/8.115 | - 1 - | 1/17.445 | 1/17.821 | -1- | 1/17.821 |
| Total |  |  |  |  |  |  |
| Total Cost (Procurement + Support + Installation) | 15.115 | 0.000 | 37.851 | 38.635 | 0.000 | 38.635 |

## UNCLASSIFIED



Exhibit P-40, Budget Line Item Justification: PB 2022 Air Force
Date: May 2021
Appropriation / Budget Activity / Budget Sub Activity:
3010F: Aircraft Procurement, Air Force / BA 05: Modification of Inservice Aircraft /
BSA 5: Other Aircraft

## P-1 Line Item Number / Title: <br> PRDTB2 / MQ-9 Mods

## BSA 5: Other Aircraft

| ID Code (A=Service Ready, B=Not Service Ready): B | Program Elements for Code B Items: 0205219F | r Related Program Elements: 0205219F |
| :---: | :---: | :---: |

## Line Item MDAP/MAIS Code: 424

| Resource Summary | Prior <br> Years | FY 2020 | FY 2021 | FY 2022 Base | $\begin{gathered} \text { FY } 2022 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \text { FY } 2022 \\ \text { Total } \end{gathered}$ | FY 2023 | FY 2024 | FY 2025 | FY 2026 | To Complete | Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Procurement Quantity (Units in Each) | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Cost (\$ in Millions) | 1,323.061 | 254.414 | 155.011 | 144.287 | - | 144.287 | - | - | - | - | - | - |
| Less PY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Net Procurement (P-1) (\$ in Millions) | 1,323.061 | 254.414 | 155.011 | 144.287 | - | 144.287 | - | - | - | - | - | - |
| Plus CY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Total Obligation Authority (\$ in Millions) | 1,323.061 | 254.414 | 155.011 | 144.287 | - | 144.287 | - | - | - | - | - | - |
| (The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.) |  |  |  |  |  |  |  |  |  |  |  |  |
| Initial Spares (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Flyaway Unit Cost (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Unit Cost (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |

## Description:

MQ-9 Reaper procurement includes all components of the MQ-9 weapon system. The basic MQ-9 Reaper system consists of the aircraft, sensors, a Ground Control Station (GCS), communications equipment, weapon kits, support equipment, simulator and training devices, technical data/training, and personnel required to operate, maintain, and sustain the system. The system is designed to be modular and openended. Mission-specific equipment is employed in a plug-and-play mission kit concept allowing specific aircraft and Ground Control Station (GCS) configurations to be tailored to fit mission needs.

MQ-9 aircraft will continue to be modified to ensure aircraft are standardized with the latest configuration. Additionally, the MQ-9 system will continue to evolve and upgrade its capabilities to satisfy new requirements and to address Reliability and Maintainability (R\&M) and safety issues as they arise. MQ-9 Mods also includes, but is not limited to, aircraft, sensors, ground control stations, and ground support system retrofit to baseline configurations.

The Air Force has established the MQ-9 Multi-Domain Operation (M2DO) aircraft configuration which consists of multiple projects intended to keep the platform viable in the wide-spectrum of armed conflict in the near term. These efforts include, but are not limited to, Anti-Jam Global Positioning System, Enhanced Power, Link 16, Open Mission System/Stellar Relay, Signal Excision, Digital Spread Spectrum Signal, Enhanced Line of Site, Enhanced Auto-Takeoff and Landing, Enhanced Autonomy (including Intelligence Electronic Units). The number of M2DO aircraft, and final capabilities within this configuration, are subject to change as requirements evolve.

There are currently 158 Block 1 and 159 Block 5 MQ-9 aircraft (as of March 2021) totaling 317 in the inventory. Not all 317 aircraft will receive every modification. Modification quantities will vary due to attrition, budget constraints, and aircraft being modified by other customers. For each P-3a the number of aircraft funded with baseline modification funding is identified.

Efforts in this summary and associated P-3A's have been broken out into several modifications: 9151, 9152, 9154, 9155, 9159, 9164, 9167, and low cost modifications.
This program will revise quantities based on updated user requirements, aircraft availability, and as funding permits. Funding may be used to address Diminishing Manufacturing Sources (DMS) and NonRecurring Engineering (NRE) issues.

This program has associated Research, Development Test and Evaluation (RDT\&E) AF funding in MQ-9 PE 0205219F.
Funding for this exhibit contained in PE 0205219F.


Exhibit P-40, Budget Line Item Justification: PB 2022 Air Force
Appropriation / Budget Activity / Budget Sub Activity:
3010F: Aircraft Procurement, Air Force / BA 05: Modification of Inservice Aircraft /
BSA 5: Other Aircraft

## P-1 Line Item Number / Title:

PRDTB2 / MQ-9 Mods

ID Code (A=Service Ready, B=Not Service Ready): B $\quad$ Program Elements for Code B Items: 0205219F $\quad$ Other Related Program Elements: 0205219F
Line Item MDAP/MAIS Code: 424

| Exhibits Schedule |  |  |  |  | Prior Years | FY 2020 | FY 2021 | FY 2022 Base | FY 2022 OCO | FY 2022 Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Exhibit Type | Title* | Subexhibits | $\begin{aligned} & \text { ID } \\ & \text { CD } \end{aligned}$ | MDAP/ MAIS Code | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost <br> (Each) I (\$ M) |
| P-3a | 9151 / Block 5 (Capability Improvement) |  | B |  | - 174.752 | - 11.515 | - 10.000 | - 10.000 | - 10.000 | - 10.000 |
| P-3a | 9152 / MQ-9 Field (Capability Improvement) |  | B |  | - 1299.052 | - / 13.222 | - 126.244 | - 10.275 | - 10.000 | 10.275 |
| P-3a | 9154 / Lynx SAR (Capability Improvement) |  | B |  | - 196.137 | - 10.000 | - 10.000 | - 10.000 | - 10.000 | - 10.000 |
| P-3a | 9155 / GCS BIk 30 (Capability Improvement) |  | B |  | - / 184.815 | 12.707 | - / 17.648 | - 10.000 | - 10.000 | 10.000 |
| P-3a | 9159 / R\&M enhancements (Reliability \& Maintainability) |  | B |  | 174.304 | / 9.114 | - 17.782 | - 14.690 | - 10.000 | 14.690 |
| P-3a | 9164 / Extended Range MQ-9 (Capability Improvement) |  | B |  | - 1290.276 | - 151.362 | - / 11.695 | - 16.350 | - 10.000 | - 16.350 |
| P-3a | 9167 / MQ-9 Upgrade (Capability Improvement) |  | B |  | - 1289.155 | - / 176.494 | - 189.642 | - / 130.972 | - 10.000 | - /130.972 |
| P-3a | $1 /$ MQ-9 Low Cost Mods (Reliability \& Maintainability) |  | B |  | - /14.570 | - 10.000 | - 12.000 | - 12.000 | - 10.000 | - 12.000 |
| P-40 | Total Gross/Weapon System Cost |  |  |  | - / 1,323.061 | - 1254.414 | - / 155.011 | - / 144.287 | - 1 | - / 144.287 |

*Title represents 1) the Number / Title for Items; 2) the Number / Title [DODIC] for Ammunition; and/or 3) the Number / Title (Modification Type) for Modifications
Note: Totals in this Exhibit P-40 set may not be exact or sum exactly due to rounding

Justification:
Where applicable, justification for individual modifications is provided in the P-3A exhibits

| Exhibit P-3a, Individual Modification: PB 2022 Air Force |  |  |  |  | Date: May 2021 |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity 3010F / 05 / 5 | P-1 Line Item Number / Title: PRDTB2 / MQ-9 Mods |  |  |  | Modification Number / Title: 9151 / Block 5 |  |
| ID Code (A=Service Ready, B=Not Service Ready) : B | MDAP/MAIS Code: |  |  |  |  |  |
| Resource Summary | Prior Years | FY 2020 | FY 2021 | FY 2022 Base | FY 2022 OCO | FY 2022 Total |
| Procurement Quantity (Units in Each) | - | - | - | - | - | - |
| Gross/Weapon System Cost (\$ in Millions) | 74.752 | 1.515 | 0.000 | 0.000 | 0.000 | 0.000 |
| Less PY Advance Procurement (\$ in Millions) | - | - | - | - | - | - |
| Net Procurement (P-1) (\$ in Millions) | 74.752 | 1.515 | 0.000 | 0.000 | 0.000 | 0.000 |
| Plus CY Advance Procurement (\$ in Millions) | - | - | - | - | - | - |
| Total Obligation Authority (\$ in Millions) | 74.752 | 1.515 | 0.000 | 0.000 | 0.000 | 0.000 |
| (The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.) |  |  |  |  |  |  |
| Initial Spares (\$ in Millions) | - | - | - | - | - | - |
| Gross/Weapon System Unit Cost (\$ in Millions) | - | - | - | - | - | - |

## Description:

This modification program includes 2 overarching projects:
Project 1: Upgrades to all MQ-9 Block 1 aircraft. This includes, but is not limited to upgrading the secure communications for the aircraft.
Project 2: Adding new capability into the MQ-9 Block 5 configuration. Specifically, the first effort (Block 5 Modification Project 2) includes, but is not limited to: Vortex Block 5 . Release 1 is covered under the Block 5 modification program.

Requirements for this modification are validated in the MQ-9 Capability Production Document dated 8 August 2006.
Funding may be used, but is not limited to, for MQ-9 Bridge or Life Of Type Buys (LOTB) to address enterprise DMS (Diminishing Manufacturing Sources) issues. The LOTB requirement may include quantities beyond established aircraft levels, as risk mitigation to prevent high cost Non-Recurring Engineering (NRE). Funding may also be used for support equipment or Government Furnished Equipment (GFE) retrofit requirements, Alternate Mission Equipment (AME), and alternate EO/IR solutions.

The Air Force continues to evaluate options to reduce lifecycle costs for the EO/IR sensor for the MQ-9A platform which could include dual sourcing an alternative material EO/IR solution.
Milestone/Development Status
MQ-9 Block 5 Critical Design Review (CDR) completed April 2011. Developmental Test was completed July 2015. FOT\&E completed December 2016. Effort is complete.

## UNCLASSIFIED

| Exhibit P-3a, Individual Modification: PB 2022 Air Force |  |  |  |  | Date: May 2021 <br> Modification Number / Title: 9151 / Block 5 |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5 |  | P-1 Line Item Number / Title: PRDTB2 / MQ-9 Mods |  |  |  |  |
| ID Code (A=Service Ready, B=Not Service Ready) : B |  |  | MDAP/MAIS Code: |  |  |  |
| Models of Systems Affected: MQ-9 | Modification Type: Capability Improvement |  |  | Related RDT\&E PEs: 0205219F |  |  |
| Financial Plan | Prior Years | FY 2020 | FY 2021 | FY 2022 Base | FY 2022 OCO | FY 2022 Total |
|  | $\begin{gathered} \text { Qty (Each) I } \\ \text { Total Cost (\$M) } \\ \hline \end{gathered}$ | $\begin{gathered} \text { Qty (Each) I } \\ \text { Total Cost }(\$ M) \\ \hline \end{gathered}$ | $\begin{aligned} & \text { Qty (Each) I } \\ & \text { Total Cost (\$ M) } \end{aligned}$ | $\begin{gathered} \hline \text { Qty (Each)I } \\ \text { Total Cost (\$M) } \\ \hline \end{gathered}$ | Qty (Each) ! Total Cost (\$ M) | Qty (Each) I Total Cost (\$ M) |
| RDT\&E PE\# |  |  |  |  |  |  |
| 0205219F | - 11,469.664 | - 1127.296 | - /162.080 | - /108.372 | - 1. | - 1108.372 |
| Procurement |  |  |  |  |  |  |
| Modification Item 1 of 1: Hybrid Release 1 |  |  |  |  |  |  |
| A Kits |  |  |  |  |  |  |
| Recurring |  |  |  |  |  |  |
| Hybrid Release 1:INSTALL KITS Group A (Active) | 110/2.483 | - 10.211 | 1 - | - 10.000 | 1 - | 10.000 |
| Subtotal: Recurring | - $/ 2.483$ | - 10.211 | - 1 | - 10.000 | - 1- | - 10.000 |
| B Kits |  |  |  |  |  |  |
| Recurring |  |  |  |  |  |  |
| Hybrid Release 1:EQUIPMENT Group B (Active) | $110 / 11.284$ | - 11.001 | - 1- | - 1 - | - 1 - | - 1 - |
| Subtotal: Recurring | - /11.284 | - 11.001 | - 1- | - 1- | - 1- | - 1- |
| Subtotal: Hybrid Release 1 | - /13.767 | - /1.212 | 1 | - 10.000 | - 1- | - 10.000 |
| Subtotal: Procurement, All Modification Items | - /13.767 | - 11.212 | - / - | - 10.000 | - $1-$ | - 10.000 |
| Support (All Modification Items) |  |  |  |  |  |  |
| OTHER GOVT | - 159.705 | - 10.303 | 1. | - 10.000 | 1. | - 10.000 |
| Subtotal: Support | - /59.705 | - 10.303 | - 1. | - 10.000 | - / - | - 10.000 |
| Installation |  |  |  |  |  |  |
| Modification Item 1 of 1: Hybrid Release 1 | 110/1.280 | - 1 - | - 1- | - 1 - | - 1 - | - 1 - |
| Subtotal: Installation | 110/1.280 | 1. | - 1 - | 1 - | 1 | 1 - |
| Total |  |  |  |  |  |  |
| Total Cost (Procurement + Support + Installation) | 74.752 | 1.515 | 0.000 | 0.000 | 0.000 | 0.000 |

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| Exhibit P-3a, Individual Modification: PB 2022 Air Force |  |  |  |  | Date: May 2021 |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5 | P-1 Line Item Number / Title: PRDTB2 / MQ-9 Mods |  |  |  | Modification Number / Title: 9152 / MQ-9 Field |  |
| ID Code (A=Service Ready, $\mathrm{B}=$ Not Service Ready) : B | MDAP/MAIS Code: |  |  |  |  |  |
| Resource Summary | Prior Years | FY 2020 | FY 2021 | FY 2022 Base | FY 2022 OCO | FY 2022 Total |
| Procurement Quantity (Units in Each) | - | - | - | - | - | - |
| Gross/Weapon System Cost (\$ in Millions) | 299.052 | 13.222 | 26.244 | 0.275 | 0.000 | 0.275 |
| Less PY Advance Procurement (\$ in Millions) | - | - | - | - | - | - |
| Net Procurement (P-1) (\$ in Millions) | 299.052 | 13.222 | 26.244 | 0.275 | 0.000 | 0.275 |
| Plus CY Advance Procurement (\$ in Millions) | - | - | - | - | - | - |
| Total Obligation Authority (\$ in Millions) | 299.052 | 13.222 | 26.244 | 0.275 | 0.000 | 0.275 |
| (The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.) |  |  |  |  |  |  |
| Initial Spares (\$ in Millions) | - | - | - | - | - | - |
| Gross/Weapon System Unit Cost (\$ in Millions) | - | - | - | - | - | - |

## Description:

This modification is a portion of the field retrofit program that upgrades MQ-9 aircraft with enhanced capabilities and utilizes a field team to perform the modification. Upgrades that are part of this modification, include but are not limited to, High Definition (HD) aircraft upgrades, Bomb Release Units (BRU)-71 bomb racks, Heavyweight Main Landing Gear (HMLG), VORTEX encrypted Data Links, Bandwidth Efficient Common Data Link (BE-CDL), POAM Mandates, Stores Management System (SMS), Selective Availability Anti-Spoofing Module (SAASM), cast sump, fuel bladders, Radar Altimeters, Barrett Asymmetric Digital Data Link Computers (BADDC), Beyond Line of Site (BLOS), Global Positioning System (GPS) splitter, Block 5 Power, and Command and Control data-link resiliency, and use of Retrofit facility space. The associated costs reflect all costs associated with the multiple elements of the MQ-9 field retrofits.

The quantity of aircraft for each modification varies depending on when the capability was cut into production.
Funding may be used, but is not limited to, for MQ-9 Bridge or Life Of Type Buys (LOTB) to address enterprise DMS (Diminishing Manufacturing Sources) issues. The LOTB requirement may include quantities beyond established aircraft levels, as risk mitigation to prevent high cost Non-Recurring Engineering (NRE). Funding may also be used for support equipment or Government Furnished Equipment (GFE) retrofit requirements, Alternate Mission Equipment (AME), and alternate EO/IR solutions.

The Air Force continues to evaluate options to reduce lifecycle costs for the EO/IR sensor for the MQ-9A platform which could include dual sourcing an alternative material EO/IR solution.
Milestone/Development Status
Development is complete. FY21-22 funding primarily used to support VORTEX encrypted Data Links, Bandwidth Efficient-CDL (BE-CDL), POAM Mandates, SAASM, BADDC, BLOS, and DMS efforts.

## UNCLASSIFIED

| Exhibit P-3a, Individual Modification: PB 2022 Air Force |  |  |  |  | Date: May 2021 <br> Modification Number / Title: 9152 / MQ-9 Field |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5 |  | P-1 Line Item Number / Title: PRDTB2 / MQ-9 Mods |  |  |  |  |
| ID Code (A=Service Ready, B=Not Service Ready) : B |  |  | MDAP/MAIS Code: |  |  |  |
| Models of Systems Affected: MQ-9 | Modification Type: Capability Improvement |  |  | Related RDT\&E PEs: 0205219F |  |  |
| Financial Plan | Prior Years | FY 2020 | FY 2021 | FY 2022 Base | FY 2022 OCO | FY 2022 Total |
|  | $\begin{gathered} \text { Qty (Each) I } \\ \text { Total Cost (\$M) } \\ \hline \end{gathered}$ | $\begin{gathered} \text { Qty (Each)I } \\ \text { Total Cost (\$M) } \\ \hline \end{gathered}$ | $\begin{gathered} \text { Qty (Each)I } \\ \text { Total Cost (\$M) } \\ \hline \end{gathered}$ | $\begin{gathered} \hline \text { Qty (Each)I } \\ \text { Total Cost (\$M) } \\ \hline \end{gathered}$ | Qty (Each) ! Total Cost (\$ M) | $\begin{gathered} \text { Qty (Each) I } \\ \text { Total Cost (\$ M) } \end{gathered}$ |
| RDT\&E PE\# |  |  |  |  |  |  |
| 0205219F | - 11,469.664 | - 1127.296 | - 1162.080 | - 1108.372 | -1. | - 1108.372 |
| Procurement |  |  |  |  |  |  |
| Modification Item 1 of 1: MQ-9 Field Mods |  |  |  |  |  |  |
| A Kits |  |  |  |  |  |  |
| Recurring |  |  |  |  |  |  |
| MQ-9 Field Mods:INSTALL KITS Group A (Active) | $645 / 25.984$ | $108 / 0.993$ | 55/1.254 | $38 / 0.041$ | 1 - | $38 / 0.041$ |
| Subtotal: Recurring | - /25.984 | - 10.993 | - 11.254 | - 10.041 | - / - | - 10.041 |
| B Kits |  |  |  |  |  |  |
| Recurring |  |  |  |  |  |  |
| MQ-9 Field Mods:EQUIPMENT Group B (Active) | $645 / 230.071$ | 108/9.172 | 55/21.126 | $38 / 0.187$ | - 1 - | $38 / 0.187$ |
| Subtotal: Recurring | - /230.071 | - 19.172 | - 121.126 | - 10.187 | - 1- | - 10.187 |
| Subtotal: MQ-9 Field Mods | - /256.055 | - /10.165 | - /22.380 | - 10.228 | - 1- | - 10.228 |
| Subtotal: Procurement, All Modification Items | - /256.055 | - /10.165 | - 122.380 | - 10.228 | - / - | - 10.228 |
| Support (All Modification Items) |  |  |  |  |  |  |
| OTHER GOVT | - 126.471 | - 12.078 | - 12.627 | - 10.026 | 1 - | - 10.026 |
| Subtotal: Support | - /26.471 | - 12.078 | - 12.627 | - 10.026 | - / - | - 10.026 |
| Installation |  |  |  |  |  |  |
| Modification Item 1 of 1: MQ-9 Field Mods | $544 / 16.526$ | $74 / 0.979$ | $120 / 1.237$ | $55 / 0.021$ | - 1. | $55 / 0.021$ |
| Subtotal: Installation | 544/16.526 | 74/0.979 | 120/1.237 | 55/0.021 | 1 | 55/0.021 |
| Total |  |  |  |  |  |  |
| Total Cost (Procurement + Support + Installation) | 299.052 | 13.222 | 26.244 | 0.275 | 0.000 | 0.275 |

## UNCLASSIFIED



| Exhibit P-3a, Individual Modification: PB 2022 Air Force |  |  |  |  | Date: May 2021 |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity 3010F / 05 / 5 | P-1 Line Item Number / Title: PRDTB2 / MQ-9 Mods |  |  |  | Modification Number / Title: 9154 / Lynx SAR |  |
| ID Code (A=Service Ready, $\mathrm{B}=$ Not Service Ready) : B | MDAP/MAIS Code: |  |  |  |  |  |
| Resource Summary | Prior Years | FY 2020 | FY 2021 | FY 2022 Base | FY 2022 OCO | FY 2022 Total |
| Procurement Quantity (Units in Each) | - | - | - | - | - | - |
| Gross/Weapon System Cost (\$ in Millions) | 96.137 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| Less PY Advance Procurement (\$ in Millions) | - | - | - | - | - | - |
| Net Procurement (P-1) (\$ in Millions) | 96.137 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| Plus CY Advance Procurement (\$ in Millions) | - | - | - | - | - | - |
| Total Obligation Authority (\$ in Millions) | 96.137 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| (The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.) |  |  |  |  |  |  |
| Initial Spares (\$ in Millions) | - | - | - | - | - | - |
| Gross/Weapon System Unit Cost (\$ in Millions) | - | - | - | - | - | - |

## Description:

The Lynx Block 20A Synthetic Aperture Radar (SAR) began production in July 2012. This effort retrofits the $110 \mathrm{MQ}-9$ aircraft equipped with the older Lynx Block 20 SAR with the current production configuration (LNXD22000-003-000) of the Lynx Block 20A. This effort also retrofits/upgrades the Lynx Block 20A SAR produced in the earlier LNXD22000-001 and LNXD22000-002 configurations to the current production configuration. Retrofitting all Lynx radars to the current production configuration of the Lynx Block 20A SAR enhances fielded capability, significantly improves reliability and maintainability, provides the capability to locate and track dismounted targets, allows for the use of retrofit facility space, resolves Diminishing Manufacturing Sources (DMS) issues with the fielded radars, addresses security concerns, and facilitates future growth of capabilities.

The requirement for this modification is validated in the MQ-9 Capabilities Production Document dated 8 August 2006.
This program supports all efforts to field the Lynx Block 20A SAR capability.
This program will revise quantities based on updated user requirements and as funding permits. Funding may be used to address DMS and Non-Recurring Engineering (NRE) issues.
Replacement of the Lynx Block 20 SAR is the cost driver in this modification; hence, the 110 Lynx Block 20A SARs produced for that purpose are what is shown in the schedule section of the P-3A.
Milestone/Development Status
The Lynx Block 20A SAR completed initial development. It began production in July 2012 and was initially fielded on MQ-9 tail number AF4125 delivered 22 March 2013 . Effort is complete. The FY22 Polar Filter Retrofit effort is to produce and deploy a polarization filter on the Lynx radar that supports Dismount Moving Target Indicator (DMTI) performance enhancement. General Atomics (GA) has performed initial development of the filter under a modernization contract and this effort is to procure, assemble, and deliver 263 Polar Filter Retrofit kits for O-level installation for the Block 5 MQ-9 aircraft.

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| Exhibit P-3a, Individual Modification: PB 2022 Air Force |  |  |  |  | Date: May 2021 |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5 |  | P-1 Line Item Number / Title: PRDTB2 / MQ-9 Mods |  |  | Modification Number / Title: 9154 / Lynx SAR |  |
| ID Code (A=Service Ready, B=Not Service Ready) : B |  |  | MDAP/MAIS Code: |  |  |  |
| Models of Systems Affected: MQ-9 |  Modification Type: Capability Improvement  <br> Prior Years FY 2020 FY 2021 |  |  | Related RDT\&E PEs: 0205219F |  |  |
|  |  |  |  | FY 2022 Base | FY 2022 OCO |  |
| Financial Plan | $\begin{gathered} \text { Qty (Each) I } \\ \text { Total Cost (\$ M) } \\ \hline \end{gathered}$ | $\begin{gathered} \text { Qty (Each) I } \\ \text { Total Cost (\$ M) } \end{gathered}$ | $\begin{gathered} \text { Qty (Each) I } \\ \text { Total Cost }(\$ \mathrm{M}) \\ \hline \end{gathered}$ | $\begin{gathered} \text { Qty (Each) I } \\ \text { Total Cost }(\$ \mathrm{M}) \\ \hline \end{gathered}$ | $\begin{gathered} \text { Qty (Each) I } \\ \text { Total Cost (\$M) } \\ \hline \end{gathered}$ | $\begin{gathered} \text { Qty (Each) }{ }^{\prime} \\ \text { Total Cost }(\$ M) \\ \hline \end{gathered}$ |
| RDT\&EPE\# |  |  |  |  |  |  |
| 0205219F | - \|1,469.664 | - 1127.296 | - /162.080 | - 1108.372 | - 1- | - 1108.372 |
| Procurement |  |  |  |  |  |  |
| Modification Item 1 of 1: Lynx SAR |  |  |  |  |  |  |
| A Kits |  |  |  |  |  |  |
| Recurring |  |  |  |  |  |  |
| Lynx SAR:INSTALL KITS Group A (Active) | 76/10.218 | - 1- | - 1- | - 1- | - 1- | - 1- |
| Subtotal: Recurring | - /10.218 | - 1- | - 1- | - 1- | - 1- | - 1- |
| B Kits |  |  |  |  |  |  |
| Recurring |  |  |  |  |  |  |
| Lynx SAR:EQUIPMENT Group B (Active) | 76179.272 | - 1 - | - 1- | -1- | - 1- | - 1 - |
| Subtotal: Recurring | - 179.272 | - 1 - | - 1- | - 1 - | - 1 - | - 1. |
| Subtotal: Lynx SAR | - 189.490 | $1-$ | $1-$ | - 1 - | - 1 - | - 1 - |
| Subtotal: Procurement, All Modification Items | - 189.490 | - 1 - | 1. | - 1 - | - 1- | - 1- |
| Support (All Modification Items) |  |  |  |  |  |  |
| OTHER GOVT | - 16.647 | - 1- | - 1- | - 1- | - 1- | - 1 - |
| Subtotal: Support | - $/ 6.647$ | - 1 - | - 1 - | - 1 - | - 1 - | - 1 - |
| Installation |  |  |  |  |  |  |
| Subtotal: Installation | - / - | - / - | - / - | - / - | - / - | $1-$ |
| Total |  |  |  |  |  |  |
| Total Cost (Procurement + Support + Installation) | 96.137 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |

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| Exhibit P-3a, Individual Modification: PB 2022 Air Force |  |  |  |  | Date: May 2021 |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity 3010F / 05 / 5 | P-1 Line Item Number / Title: PRDTB2 / MQ-9 Mods |  |  |  | Modification Number / Title: 9155 / GCS Blk 30 |  |
| ID Code (A=Service Ready, B=Not Service Ready) : B | MDAP/MAIS Code: |  |  |  |  |  |
| Resource Summary | Prior Years | FY 2020 | FY 2021 | FY 2022 Base | FY 2022 OCO | FY 2022 Total |
| Procurement Quantity (Units in Each) | - | - | - | - | - | - |
| Gross/Weapon System Cost (\$ in Millions) | 184.815 | 2.707 | 17.648 | 0.000 | 0.000 | 0.000 |
| Less PY Advance Procurement (\$ in Millions) | - | - | - | - | - | - |
| Net Procurement (P-1) (\$ in Millions) | 184.815 | 2.707 | 17.648 | 0.000 | 0.000 | 0.000 |
| Plus CY Advance Procurement (\$ in Millions) | - | - | - | - | - | - |
| Total Obligation Authority (\$ in Millions) | 184.815 | 2.707 | 17.648 | 0.000 | 0.000 | 0.000 |
| (The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.) |  |  |  |  |  |  |
| Initial Spares (\$ in Millions) | - | - | - | - | - | - |
| Gross/Weapon System Unit Cost (\$ in Millions) | - | - | - | - | - | - |

## Description:

The Ground Control Station (GCS) modernization retrofit program upgrades the GCS, including, but not limited to Fixed and Mobile GCS with new Linux processors, high definition displays, ergonomic improvements, tech refreshes, communications improvements, cyber security improvements, Predator Primary Data Links (PPDLs), 2nd ARC-210 radio capabilities, emergency line of sight, open architecture and Barrett Asymmetric Digital Data Link Computers (BADDCs). Through an incremental approach, GCS modernization retrofits the legacy system with user-prioritized capabilities to include significant HumanMachine Interface (HMI) improvements and reliability and maintenance enhancements. Unit costs vary due to the mix of fixed and mobile retrofits, which have varying costs.

Requirement for this modification is validated in the MQ-9 Capability Production Document dated 8 August 2006.
This modification supports all efforts required to field the GCS capability and will revise quantities based upon user requirements, GCS Availability, and available funding. Funding may be used to address Diminishing Manufacturing Sources (DMS) and Non-Recurring Engineering (NRE) issues. Funding may be used to update simulators to current configuration or to meet the needs of the user.

Milestone/Development Status
GCS Critical Design Review completed Apr 2011.
Test and evaluation was completed June 2013. Operation test was completed September 2016.

## UNCLASSIFIED

| Exhibit P-3a, Individual Modification: PB 2022 Air Force |  |  |  |  | Date: May 2021 |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5 |  | P-1 Line Item Number / Title: PRDTB2 / MQ-9 Mods |  |  | Modification Number / Title: 9155 / GCS Blk 30 |  |
| ID Code (A=Service Ready, B=Not Service Ready) : B |  |  | MDAP/MAIS Code: |  |  |  |
| Models of Systems Affected: MQ-9 | Modification Type: Capability Improvement |  |  | Related RDT\&E PEs: 0205219F |  |  |
|  | Prior Years | FY 2020 | FY 2021 | FY 2022 Base | FY 2022 OCO | FY 2022 Total |
| Financial Plan | $\begin{gathered} \text { Qty (Each) I } \\ \text { Total Cost (\$ M) } \\ \hline \end{gathered}$ | $\begin{gathered} \text { Qty (Each) I } \\ \text { Total Cost }(\$ M) \\ \hline \end{gathered}$ | $\begin{gathered} \text { Qty (Each) I } \\ \text { Total Cost (\$ M) } \end{gathered}$ | $\begin{gathered} \text { Qty (Each) I } \\ \text { Total Cost }(\$ M) \\ \hline \end{gathered}$ | $\begin{gathered} \text { Qty (Each) I } \\ \text { Total Cost (\$M) } \\ \hline \end{gathered}$ | $\begin{gathered} \text { Qty (Each) I } \\ \text { Total Cost }(\$ M) \\ \hline \end{gathered}$ |
| RDT\&E PE\# |  |  |  |  |  |  |
| 0205219F | - \|1,469.664 | - 1127.296 | - $/ 162.080$ | - 1108.372 | 1 - | - 1108.372 |
| Procurement |  |  |  |  |  |  |
| Modification Item 1 of 1: GCS Block 30 |  |  |  |  |  |  |
| A Kits |  |  |  |  |  |  |
| Recurring |  |  |  |  |  |  |
| GCS Block 30:INSTALL KITS Group A (Active) | $76 / 13.089$ | - 10.045 | - 10.346 | 0/0.000 | 1 - | 0/0.000 |
| Subtotal: Recurring | - /13.089 | - 10.045 | - 10.346 | - 10.000 | - 1 - | - 10.000 |
| B Kits |  |  |  |  |  |  |
| Recurring |  |  |  |  |  |  |
| GCS Block 30:EQUIPMENT Group B (Active) | 76/95.284 | - 11.220 | - 16.098 | 0/0.000 | - 1 - | 0/0.000 |
| Subtotal: Recurring | - 195.284 | - 11.220 | - 16.098 | - 10.000 | -1 | - 10.000 |
| Subtotal: GCS Block 30 | - /108.373 | - 11.265 | - 16.444 | - 10.000 | 1 | - 10.000 |
| Subtotal: Procurement, All Modification Items | - /108.373 | - /1.265 | - 16.444 | - 10.000 | - / - | - 10.000 |
| Support (All Modification Items) |  |  |  |  |  |  |
| Change Orders | - 11.210 | 1 | 1. | 1. | 1 - | $1-$ |
| OTHER GOVT | - 114.729 | - 10.354 | - 12.752 | - 1 - | -1- | -1- |
| Subtotal: Support | - /15.939 | - 10.354 | - 12.752 | - / - | - 1 - | - 1 |
| Installation |  |  |  |  |  |  |
| Modification Item 1 of 1: GCS Block 30 | $58 / 60.503$ | $12 / 1.088$ | $6 / 8.452$ | 0/0.000 | 1 - | $0 / 0.000$ |
| Subtotal: Installation | 58/60.503 | 12/1.088 | 6/8.452 | 01 - | - 1- | 01. |
| Total |  |  |  |  |  |  |
| Total Cost (Procurement + Support + Installation) | 184.815 | 2.707 | 17.648 | 0.000 | 0.000 | 0.000 |

## UNCLASSIFIED



| Exhibit P-3a, Individual Modification: PB 2022 Air Force |  |  |  |  | Date: May 2021 |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5 | P-1 Line Item Number / Title: PRDTB2 / MQ-9 Mods |  |  |  | Modification Number / Title: 9159 / R\&M enhancements |  |
| ID Code (A=Service Ready, $\mathrm{B}=$ Not Service Ready) : B | MDAP/MAIS Code: |  |  |  |  |  |
| Resource Summary | Prior Years | FY 2020 | FY 2021 | FY 2022 Base | FY 2022 OCO | FY 2022 Total |
| Procurement Quantity (Units in Each) | - | - | - | - | - | - |
| Gross/Weapon System Cost (\$ in Millions) | 74.304 | 9.114 | 7.782 | 4.690 | 0.000 | 4.690 |
| Less PY Advance Procurement (\$ in Millions) | - | - | - | - | - | - |
| Net Procurement (P-1) (\$ in Millions) | 74.304 | 9.114 | 7.782 | 4.690 | 0.000 | 4.690 |
| Plus CY Advance Procurement (\$ in Millions) | - | - | - | - | - | - |
| Total Obligation Authority (\$ in Millions) | 74.304 | 9.114 | 7.782 | 4.690 | 0.000 | 4.690 |
| (The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.) |  |  |  |  |  |  |
| Initial Spares (\$ in Millions) | - | - | - | - | - | - |
| Gross/Weapon System Unit Cost (\$ in Millions) | - | - | - | - | - | - |

## Description:

This effort enables Reliability and Maintainability (R\&M) modifications to the MQ-9 aircraft, sensor payloads, Ground Control Stations (GCS), and simulators. R\&M modifications improve component mean time between failure and maintenance action rate requirements, and drive down system sustainabilty costs. Examples include, but are not limited to improved oil system sampling, new battery junction boxes, angle of attack probes, Ruggedized Aircraft Maintenance Test System (RAMTS), use of retrofit facility space, and improved power inverters. This effort addresses R\&M issues identified by the Joint Reliability and Maintainability Evaluation Team (JRMET) and CAT I deficiency reports.

The requirement for R\&M Enhancements is validated in the MQ-9 Capability Production Document dated 8 August 2006. The quantity of aircraft for each Block $1 \&$ Block 5 modification varies depending on when the capability was cut into production. In FY21 and out, the R\&M funding will be used to conduct other R\&M modifications as required and quantities will vary based on funding and user requirements.

This program will revise quantities based on updated user requirements, aircraft availability, and as funding permits.
Funding may be used, but is not limited to, for MQ-9 Bridge or Life Of Type Buys (LOTB) to address enterprise DMS (Diminishing Manufacturing Sources) issues. The LOTB requirement may include quantities beyond established aircraft levels, as risk mitigation to prevent high cost Non-Recurring Engineering (NRE). Funding may also be used for support equipment or Government Furnished Equipment (GFE) retrofit requirements, Alternate Mission Equipment (AME), and alternate EO/IR solutions.

Under this effort the Contractor may provide manufacturing, installation, and acceptance testing to all reliability and maintainability modifications on MQ-9 aircraft and ground based systems.
This mod also includes updates to the MALET Stand Alone Trainer (MSAT) family of systems configuration simulator.
The Air Force continues to evaluate options to reduce lifecycle costs for the EO/IR sensor for the MQ-9A platform which could include dual sourcing an alternative material EO/IR solution.
Milestone/Development Status
The MQ-9 program will continue to develop, test, and recommend reliability, maintainability, availability, sustainability, and safety enhancements and solutions for implementation on the MQ-9 platform and ground based systems in an effort to improve aircraft and payload availability and reduce lifecycle costs.

## UNCLASSIFIED



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| Exhibit P-3a, Individual Modification: PB 2022 Air Force |  |  | Date: May 2021 |
| :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5 | P-1 Line Item Number / Title: PRDTB2 / MQ-9 Mods |  | Modification Number / Title: 9159 / R\&M enhancements |
| ID Code (A=Service Ready, B=Not Service Ready) : B |  | MDAP/MAIS Code: |  |
| Modification Item 1 of 1: R\&M Enhancements |  |  |  |
| Manufacturer Information |  |  |  |
| Manufacturer Name: General Atomics ASI |  | Manufacturer Location: Poway CA |  |
| Administrative Leadtime (in Months): 2 |  | Production Leadtime (in Months): 12 |  |
| Dates | FY 2020 | FY 2021 | FY 2022 |
| Contract Dates |  |  |  |
| Delivery Dates |  |  |  |
|  |  |  |  |
| Installation Information |  |  |  |
| Method of Implementation (Organic): Org/lntermediate |  | Installation Quantity: 170 |  |


| Exhibit P-3a, Individual Modification: PB 2022 Air Force |  |  |  |  | Date: May 2021 |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5 | P-1 Line Item Number / Title: PRDTB2 / MQ-9 Mods |  | Modification Number / Title: 9164 / Extended Range MQ-9 |  |  |  |
| ID Code (A=Service Ready, $\mathrm{B}=$ Not Service Ready) : B | MDAP/MAIS Code: |  |  |  |  |  |
| Resource Summary | Prior Years | FY 2020 | FY 2021 | FY 2022 Base | FY 2022 OCO | FY 2022 Total |
| Procurement Quantity (Units in Each) | - | - | - | - | - | - |
| Gross/Weapon System Cost (\$ in Millions) | 290.276 | 51.362 | 11.695 | 6.350 | 0.000 | 6.350 |
| Less PY Advance Procurement (\$ in Millions) | - | - | - | - | - | - |
| Net Procurement (P-1) (\$ in Milions) | 290.276 | 51.362 | 11.695 | 6.350 | 0.000 | 6.350 |
| Plus CY Advance Procurement (\$ in Millions) | - | - | - | - | - | - |
| Total Obligation Authority (\$ in Millions) | 290.276 | 51.362 | 11.695 | 6.350 | 0.000 | 6.350 |
| (The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.) |  |  |  |  |  |  |
| Initial Spares (\$ in Millions) | - | - | - | - | - | - |
| Gross/Weapon System Unit Cost (\$ in Millions) | - | - | - | - | - | - |

## Description:

This program adds Extended Range (ER) capability to the MQ-9 aircraft. Candidate aircraft modifications include, but are not limited to, external fuel tanks with shipping containers, 4 -bladed propellers with shipping containers, engine modifications, fuel system modifications, use of retrofit facility space, and software modifications. Current plan is to modify all MQ-9 aircraft to the ER configuration. This program will revise quantities based on updated user requirements and as funding permits.

Funding may be used, but is not limited to, for MQ-9 Bridge or Life Of Type Buys (LOTB) to address enterprise DMS (Diminishing Manufacturing Sources) issues. The LOTB requirement may include quantities beyond established aircraft levels, as risk mitigation to prevent high cost Non-Recurring Engineering (NRE). Funding may also be used for support equipment or Government Furnished Equipment (GFE) retrofit requirements, Alternate Mission Equipment (AME), and alternate EO/IR solutions.

The ER modification will be upgrading 113 Block 1 aircraft and 136 Block 5 aircraft per the users identified requirements, but quantities may vary after accounting for adjustments due to aircraft attrition and production cut-in of the ER capability. Overseas Contingency Operations (OCO) funded modifications will have the installations paid for at contract award, but installations will not occur until kits begin to deliver. All other program office installations will be paid for in the year the installations actually occur.

Requirement for this modification was validated by the Chairman of the Joint Chiefs of Staff in conjunction with the Warfighter Senior Integration Group in response to an Urgent Operational Need.
Quantities in FY18 and onward are Block 5 only.
The Air Force continues to evaluate options to reduce lifecycle costs for the EO/IR sensor for the MQ-9A platform which could include dual sourcing an alternative material EO/IR solution.
Milestone/Development Status
The Air Force delivered 44 modified Block 1 ER aircraft by July 2016 to meet a Joint Urgent Operational Need (JUON). Per the user's requirement, the final 64 Block 1 ER modification are complete as of May 2020. There are a total of 106 Block 1 ER aircraft in the fleet. No additional Block 1 aircraft are programmed to receive the ER modification. Block 5 aircraft are programmed to be modified to the ER configuration. ER modification will continue to upgrade the remaining delta of 136 Block 5 aircraft.

| Exhibit P-3a, Individual Modification: PB 2022 Air Force |  |  |  |  | Date: May 2021 |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5 |  | P-1 Line Item Number / Title: PRDTB2 / MQ-9 Mods |  |  | Modification Number / Title: 9164 / Extended Range MQ-9 |  |
| ID Code (A=Service Ready, B=Not Service Ready) : B |  |  | MDAP/MAIS Code: |  |  |  |
| Models of Systems Affected: MQ-9 | Modification Type: Capability Improvement   <br> Prior Years FY 2020 FY 2021 |  |  | Related RDT\&E PEs: 0205219F |  |  |
| Financial Plan |  |  |  | FY 2022 Base | FY 2022 OCO | FY 2022 Total |
|  | $\begin{gathered} \text { Qty (Each) I } \\ \text { Total Cost (\$M) } \end{gathered}$ | $\begin{gathered} \text { Qty (Each) I } \\ \text { Total Cost (\$ M) } \\ \hline \end{gathered}$ | $\begin{gathered} \text { Qty (Each) I } \\ \text { Total Cost }(\$ \mathrm{M}) \\ \hline \end{gathered}$ | $\begin{gathered} \text { Qty (Each) I } \\ \text { Total Cost (\$ M) } \\ \hline \end{gathered}$ | $\begin{gathered} \text { Qty (Each) I } \\ \text { Total Cost }(\$ M) \\ \hline \end{gathered}$ | Qty (Each) I Total Cost (\$ M) |
| RDT\&E PE\# |  |  |  |  |  |  |
| 0205219F | - \|1,469.664 | - 1127.296 | - /162.080 | - 1108.372 | $1 \cdot$ | - 1108.372 |
| Procurement |  |  |  |  |  |  |
| Modification Item 1 of 1: Extended Range MQ-9 |  |  |  |  |  |  |
| A Kits |  |  |  |  |  |  |
| Recurring |  |  |  |  |  |  |
| Extended Range MQ-9:INSTALL KITS Group A (Active) | 231/26.903 | $26 / 5.608$ | 3610.822 | 10/0.953 | - 1- | 10/0.953 |
| Subtotal: Recurring | - /26.903 | - 15.608 | - 10.822 | - 10.953 | - 1- | - 10.953 |
| B Kits |  |  |  |  |  |  |
| Recurring |  |  |  |  |  |  |
| Extended Range MQ-9:EQUIPMENT Group B (Active) | 231/229.694 | 26/40.522 | $36 / 8.316$ | 10/4.515 | 1 - | 10/4.515 |
| Subtotal: Recurring | - 1229.694 | - 140.522 | - 18.316 | - 14.515 | - 1- | - 14.515 |
| Subtotal: Extended Range MQ-9 | - /256.597 | - /46.130 | - 19.138 | - $/ 5.468$ | 1 | - 15.468 |
| Subtotal: Procurement, All Modification Items | - /256.597 | - /46.130 | - 19.138 | - $/ 5.468$ | 1 | - 15.468 |
| Support (All Modification Items) |  |  |  |  |  |  |
| OTHER GOVT | - /16.449 | - 13.332 | - 12.124 | - 10.647 | - 1- | - 10.647 |
| Subtotal: Support | - /16.449 | - /3.332 | - $/ 2.124$ | - 10.647 | - 1 - | - 10.647 |
| Installation |  |  |  |  |  |  |
| Modification Item 1 of 1: Extended Range MQ-9 | $141 / 17.230$ | $67 / 1.900$ | $46 / 0.433$ | $36 / 0.235$ | 1. | $36 / 0.235$ |
| Subtotal: Installation | 141/17.230 | 67/1.900 | 46/0.433 | 36/0.235 | - 1- | 36/0.235 |
| Total |  |  |  |  |  |  |
| Total Cost (Procurement + Support + Installation) | 290.276 | 51.362 | 11.695 | 6.350 | 0.000 | 6.350 |

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Exhibit P-3a, Individual Modification: PB 2022 Air Force

## Appropriation / Budget Activity / Budget Sub Activity:

 3010F/05/5
## P-1 Line Item Number / Title: PRDTB2 / MQ-9 Mods

Date: May 2021

## Modification Number / Title:

9167 / MQ-9 Upgrade

ID Code (A=Service Ready, B=Not Service Ready) : B
MDAP/MAIS Code:

| Resource Summary | Prior Years | FY 2020 | FY 2021 | FY 2022 Base | FY 2022 OCO | FY 2022 Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Procurement Quantity (Units in Each) | - | - | - | - | - | - |
| Gross/Weapon System Cost (\$ in Millions) | 289.155 | 176.494 | 89.642 | 130.972 | 0.000 | 130.972 |
| Less PY Advance Procurement (\$ in Millions) | - | - | - | - | - | - |
| Net Procurement (P-1) (\$ in Millions) | 289.155 | 176.494 | 89.642 | 130.972 | 0.000 | 130.972 |
| Plus CY Advance Procurement (\$ in Millions) | - | - | - | - | - | - |
| Total Obligation Authority (\$ in Millions) | 289.155 | 176.494 | 89.642 | 130.972 | 0.000 | 130.972 |
| (The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.) |  |  |  |  |  |  |
| Initial Spares (\$ in Millions) | - | - | - | - | - | - |
| Gross/Weapon System Unit Cost (\$ in Millions) | - | - | - | - | - | - |

## Description:

The MQ-9 Upgrade program fields new capabilities for the MQ-9 fleet. This program integrates the approved MQ-9 Upgrade Agile Acquisition Strategy, the associated technology maturation efforts, and fielding and sustainment of capabilities associated with Operational Flight Profile releases.

MQ-9 Unmanned Aircraft System retrofits those capabilities into the MQ-9 Block 1 and Block 5 platform as required. Although the content of the OFP releases may change in response to changing mission requirements, at this time releases include, but are not limited to, implementing enhanced data processing \& dissemination, high definition electro-optical/infra-red (EO/IR) imagery with the DAS-4 and/or alternative EO/IR sensor, enhanced and redundant power, autonomous systems, artificial Intelligence, upgraded data links, mission assurance and resiliency, improved weapon system security, Link-16, Open Mission Systems, and enhanced weapons integration \& targeting capabilities across the MQ-9 enterprise. Due to the Agile Acquisition process, retrofit priorities will be determined and executed by Technology Maturation Effort (TME) maturity, aircraft availability, and operational needs.

Requirement for this modification is validated in the MQ-9 Capability Production Document dated 8 August 2006.
This program will revise quantities based on updated user requirements and as funding permits.
Funding may be used, but is not limited to, for MQ-9 Bridge or Life Of Type Buys (LOTB) to address enterprise DMS (Diminishing Manufacturing Sources) issues. The LOTB requirement may include quantities beyond established aircraft levels, as risk mitigation to prevent high cost Non-Recurring Engineering (NRE). Funding may also be used for support equipment or Government Furnished Equipment (GFE) retrofit requirements, Alternate Mission Equipment (AME), and alternate EO/IR solutions.

There are multiple capabilities (within each element of the P-3a) being added to the aircraft, thus the quantities are overstated. Each element will be installed based upon fleet requirements to get to a baseline for that specific capability release.

The quantity of aircraft for each modification varies depending on when the capability was cut into production. For the DAS-4 retrofit, or alternate EO/IR solution, the program planned to modify Block 5 and Block 1 aircraft delivered with or without DAS-4. For the software release retrofits, the program planned to modify Block 5 and Block 1 aircraft as required.

The increase of Other Government Support costs is due to additional MQ-9 Upgrade Retrofits programs and adjustments made from transitioning support from aircraft production to modernizing the fleet through retrofit program(s) to support warfighter and Combatant Command requirements.

The Air Force continues to evaluate options to reduce lifecycle costs for the EO/IR sensor for the MQ-9A platform which could include dual sourcing an alternative material EO/IR solution.

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| Exhibit P-3a, Individual Modification: PB 2022 Air Force |  |  |  |  |  |  |  | Date: May 2021 |
| :--- | :--- | :--- | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: | P-1 Line Item Number / Title: <br> PRDTB2 / MQ-9 Mods | Modification Number / Title: <br> 3010F / 05 / 5 |  |  |  |  |  |  |
| ID Code (A=Service Ready, B=Not Service Ready) : B | MDAP/MAIS Code: |  |  |  |  |  |  |  |
| Milestone/Development Status Upgrade |  |  |  |  |  |  |  |  |
| DAS-4 Development completed in Q4 FY14. Procurement of additional equipment developed in the MQ-9 Upgrade program will continue through FY26+. |  |  |  |  |  |  |  |  |


| Exhibit P-3a, Individual Modification: PB 2022 Air Force |  |  |  |  | Date: May 2021 <br> Modification Number / Title: 9167 / MQ-9 Upgrade |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5 |  | P-1 Line Item Number / Title: PRDTB2 / MQ-9 Mods |  |  |  |  |
| ID Code (A=Service Ready, B=Not Service Ready) : B |  |  | MDAP/MAIS Code: |  |  |  |
| Models of Systems Affected: MQ-9 | Modification Type: Capability Improvement |  |  | Related RDT\&E PEs: 0205219F |  |  |
| Financial Plan | Prior Years | FY 2020 | FY 2021 | FY 2022 Base | FY 2022 OCO | FY 2022 Total |
|  | $\begin{gathered} \text { Qty (Each) I } \\ \text { Total Cost }(\$ M) \\ \hline \end{gathered}$ | $\begin{gathered} \text { Qty (Each) I } \\ \text { Total Cost (\$M) } \\ \hline \end{gathered}$ | $\begin{gathered} \text { Qty (Each) I } \\ \text { Total Cost }(\$ \mathrm{M}) \\ \hline \end{gathered}$ | $\begin{gathered} \text { Qty (Each) I } \\ \text { Total Cost (\$ M) } \\ \hline \end{gathered}$ | $\begin{gathered} \text { Qty (Each) I } \\ \text { Total Cost }(\$ M) \\ \hline \end{gathered}$ | $\begin{gathered} \text { Qty (Each) I } \\ \text { Total Cost }(\$ M) \\ \hline \end{gathered}$ |
| RDT\&E PE\# |  |  |  |  |  |  |
| 0205219F | - 11,469.664 | - 1127.296 | - $/ 162.080$ | - 1108.372 | - 1 - | 1108.372 |
| Procurement |  |  |  |  |  |  |
| Modification Item 1 of 2: DAS-4 EO/IR Sensor |  |  |  |  |  |  |
| A Kits |  |  |  |  |  |  |
| Recurring |  |  |  |  |  |  |
| DAS-4 EO/R Sensor:INSTALL KITS Group A (Active) | 125/0.000 | $108 / 0.000$ | $69 / 0.001$ | - 1 - | - 1- | - 1- |
| Subtotal: Recurring | - 10.000 | - 10.000 | - 10.001 | 1 | - 1- | - 1- |
| B Kits |  |  |  |  |  |  |
| Recurring |  |  |  |  |  |  |
| DAS-4 EO/IR Sensor:EQUIPMENT Group B (Active) | 125/259.180 | 108/119.371 | $69 / 37.132$ | - 1 | - 1- | -1. |
| Subtotal: Recurring | - /259.180 | - /119.371 | - /37.132 | - 1- | - 1- | - 1- |
| Subtotal: DAS-4 EO/IR Sensor | - /259.180 | - /119.371 | - /37.133 | - 1- | - 1- | - 1- |
| Modification Item 2 of 2: MQ-9 Upgrade |  |  |  |  |  |  |
| A Kits |  |  |  |  |  |  |
| Recurring |  |  |  |  |  |  |
| MQ-9 Upgrade:INSTALL KITS Group A (Active) | - 1- | - 19.923 | 100/11.652 | $259 / 35.590$ | - 1- | 259/35.590 |
| Subtotal: Recurring | - 1 - | - 19.923 | - /11.652 | - 135.590 | - 1- | - 135.590 |
| B Kits |  |  |  |  |  |  |
| Recurring |  |  |  |  |  |  |
| MQ-9 Upgrade:EQUIPMENT Group B (Active) | $50 / 6.660$ | 110/39.696 | $639 / 38.875$ | 369 / 80.307 | - 1- | $369 / 80.307$ |
| Subtotal: Recurring | - 16.660 | - /39.696 | - /38.875 | - /80.307 | - 1- | - /80.307 |
| Subtotal: MQ-9 Upgrade | - 16.660 | - /49.619 | - /50.527 | - /115.897 | - 1- | - /115.897 |
| Subtotal: Procurement, All Modification Items | - /265.840 | - /168.990 | - 187.660 | - /115.897 | - 1- | - 1115.897 |
| Support (All Modification Items) |  |  |  |  |  |  |
| OTHER GOVT | - 123.315 | - 17.504 | - 11.982 | - /15.075 | - 1- | - /15.075 |
| Subtotal: Support | - /23.315 | - 17.504 | - 11.982 | - /15.075 | - 1- | - /15.075 |
| Installation |  |  |  |  |  |  |
| Modification Item 2 of 2: MQ-9 Upgrade | - 1- | 1 - | - 1 - | $100 / 0.000$ | - 1 - | $100 / 0.000$ |
| Subtotal: Installation | - 1 | - 1. | - 1 - | 100/0.000 | - 1- | 10010.000 |
| Total |  |  |  |  |  |  |

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| Exhibit P-3a, Individual Modification: PB 2022 Air Force |  |  |  |  | Date: May 2021 |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5 |  | P-1 Line Item Number / Title: PRDTB2 / MQ-9 Mods |  |  | Modification Number / Title: 9167 / MQ-9 Upgrade |  |
| ID Code (A=Service Ready, B=Not Service Ready) : B |  |  | MDAP/MAIS Code: |  |  |  |
| Models of Systems Affected: MQ-9 | Modification Type: Capability Improvement   <br> Prior Years FY 2020 FY 2021 |  |  | Related RDT\&E PEs: 0205219F |  |  |
|  |  |  |  | FY 2022 Base | FY 2022 OCO | FY 2022 Total |
| Financial Plan | $\begin{gathered} \text { Qty (Each) I } \\ \text { Total Cost (\$ M) } \\ \hline \end{gathered}$ | $\begin{gathered} \text { Qty (Each) I } \\ \text { Total Cost (\$M) } \end{gathered}$ | $\begin{gathered} \text { Qty (Each) I } \\ \text { Total Cost (\$ M) } \end{gathered}$ | $\begin{gathered} \text { Qty (Each) I } \\ \text { Total Cost (\$M) } \end{gathered}$ | $\begin{gathered} \text { Qty (Each) I } \\ \text { Total Cost (\$ M) } \end{gathered}$ | $\begin{gathered} \text { Qty (Each) I } \\ \text { Total Cost (\$M) } \end{gathered}$ |
| Total Cost (Procurement + Support + Installation) | 289.155 | 176.494 | 89.642 | 130.972 | 0.000 | 130.972 |

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| Exhibit P-3a, Individual Modification: PB 2022 Air Force |  |  |  |  | Date: May 2021 |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity 3010F / 05 / 5 | P-1 Line Item Number / Title: PRDTB2 / MQ-9 Mods |  |  |  | Modification Number / Title: 1 / MQ-9 Low Cost Mods |  |
| ID Code (A=Service Ready, $\mathrm{B}=$ Not Service Ready) : B | MDAP/MAIS Code: |  |  |  |  |  |
| Resource Summary | Prior Years | FY 2020 | FY 2021 | FY 2022 Base | FY 2022 OCO | FY 2022 Total |
| Procurement Quantity (Units in Each) | - | - | - | - | - | - |
| Gross/Weapon System Cost (\$ in Millions) | 14.570 | 0.000 | 2.000 | 2.000 | 0.000 | 2.000 |
| Less PY Advance Procurement (\$ in Millions) | - | - | - | - | - | - |
| Net Procurement (P-1) (\$ in Millions) | 14.570 | 0.000 | 2.000 | 2.000 | 0.000 | 2.000 |
| Plus CY Advance Procurement (\$ in Millions) | - | - | - | - | - | - |
| Total Obligation Authority (\$ in Millions) | 14.570 | 0.000 | 2.000 | 2.000 | 0.000 | 2.000 |
| (The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.) |  |  |  |  |  |  |
| Initial Spares (\$ in Millions) | - | - | - | - | - | - |
| Gross/Weapon System Unit Cost (\$ in Millions) | - | - | - | - | - | - |

## Description:

This effort enables the execution of low cost modifications in a timely manner. This program will revise quantities based on updated user requirements and as funding permits.
Funding may be used, but is not limited to, for MQ-9 Bridge or Life Of Type Buys (LOTB) to address enterprise DMS (Diminishing Manufacturing Sources) issues. The LOTB requirement may include quantities beyond established aircraft levels, as risk mitigation to prevent high cost Non-Recurring Engineering (NRE). Funding may also be used for support equipment or Government Furnished Equipment (GFE) retrofit requirements, Alternate Mission Equipment (AME), and alternate EO/IR solutions.

Under this effort the contractor shall provide manufacturing, installation, and acceptance testing of low cost modifications on MQ-9 aircraft and ground based systems.
The Air Force continues to evaluate options to reduce lifecycle costs for the EO/IR sensor for the MQ-9A platform which could include dual sourcing an alternative material EO/IR solution.
Milestone/Development Status
Development is ongoing.

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| Exhibit P-3a, Individual Modification: PB 2022 Air Force |  |  |  |  | Date: May 2021 |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5 |  | P-1 Line Item Number / Title: PRDTB2 / MQ-9 Mods |  |  | Modification Number / Title: 1 / MQ-9 Low Cost Mods |  |
| ID Code (A=Service Ready, $\mathrm{B}=$ Not Service Ready) : B |  |  | MDAP/MAIS Code: |  |  |  |
| Models of Systems Affected: MQ-9 |  |  |  | Related RDT\&E PEs: 0205219F |  |  |
|  | Prior Years |  |  | FY 2022 Base | FY 2022 OCO | FY 2022 Total |
| Financial Plan | $\begin{gathered} \text { Qty (Each) I } \\ \text { Total Cost (\$ M) } \end{gathered}$ | $\begin{aligned} & \text { Qty (Each) I } \\ & \text { Total Cost (\$M) } \end{aligned}$ | $\begin{gathered} \text { Qty (Each) I } \\ \text { Total Cost (\$ M) } \end{gathered}$ | $\begin{gathered} \text { Qty (Each) I } \\ \text { Total Cost }(\$ M) \\ \hline \end{gathered}$ | $\begin{gathered} \text { Qty (Each) I } \\ \text { Total Cost }(\$ M) \\ \hline \end{gathered}$ | $\begin{gathered} \text { Qty (Each) I } \\ \text { Total Cost }(\$ M) \\ \hline \end{gathered}$ |
| RDT\&E PE\# |  |  |  |  |  |  |
| 0205219F | - \|1,469.664 | - 1127.296 | - /162.080 | - 1108.372 | - 1- | - 1108.372 |
| Procurement |  |  |  |  |  |  |
| Modification Item 1 of 1: MQ-9 Low Cost Mods |  |  |  |  |  |  |
| A Kits |  |  |  |  |  |  |
| Recurring |  |  |  |  |  |  |
| MQ-9 Low Cost Mods:INSTALL KITS Group A (Active) | 0/0.734 | - 1- | - 1- | $0 / 0.000$ | - 1- | 0/0.000 |
| Subtotal: Recurring | - 10.734 | - 1- | - 1- | - 10.000 | - 1 - | - 10.000 |
| B Kits |  |  |  |  |  |  |
| Recurring |  |  |  |  |  |  |
| MQ-9 Low Cost Mods:EQUIPMENT Group B (Active) | 0/13.836 | - 10.000 | - 12.000 | 0/2.000 | -1- | 0/2.000 |
| Subtotal: Recurring | - /13.836 | - 10.000 | - 12.000 | - 12.000 | - 1 - | - 12.000 |
| Subtotal: MQ-9 Low Cost Mods | - /14.570 | - 10.000 | - 12.000 | - 12.000 | - / - | - 12.000 |
| Subtotal: Procurement, All Modification Items | - /14.570 | - 10.000 | - 12.000 | - /2.000 | -1- | - 12.000 |
| Installation |  |  |  |  |  |  |
| Subtotal: Installation | - / - | - / - | - / - | - / - | - / - | - 1- |
| Total |  |  |  |  |  |  |
| Total Cost (Procurement + Support + Installation) | 14.570 | 0.000 | 2.000 | 2.000 | 0.000 | 2.000 |

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Exhibit P-40, Budget Line Item Justification: PB 2022 Air Force
Date: May 2021
Appropriation / Budget Activity / Budget Sub Activity:
3010F: Aircraft Procurement, Air Force / BA 05: Modification of Inservice Aircraft /
BSA 5: Other Aircraft

## P-1 Line Item Number / Title:

PRDTB3 / MQ-9 UAS Payloads

Program Elements for Code B Items: 0305206F Other Related Program Elements: 0305206F

## Line Item MDAP/MAIS Code: N/A

| Resource Summary | Prior <br> Years | FY 2020 | FY 2021 | $\begin{gathered} \text { FY } 2022 \\ \text { Base } \end{gathered}$ | $\begin{gathered} \text { FY } 2022 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \text { FY } 2022 \\ \text { Total } \end{gathered}$ | FY 2023 | FY 2024 | FY 2025 | FY 2026 | To Complete | Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Procurement Quantity (Units in Each) | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Cost (\$ in Millions) | 50.905 | 19.800 | 63.500 | 40.800 | 0.000 | 40.800 | - | - | - | - | - | - |
| Less PY Advance Procurement (\$ in Millions) | 0.000 | - | - | - | - | - | - | - | - | - | - | - |
| Net Procurement (P-1) (\$ in Millions) | 50.905 | 19.800 | 63.500 | 40.800 | 0.000 | 40.800 | - | - | - | - | - | - |
| Plus CY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Total Obligation Authority (\$ in Millions) | 50.905 | 19.800 | 63.500 | 40.800 | 0.000 | 40.800 | - | - | - | - | - | - |
| (The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.) |  |  |  |  |  |  |  |  |  |  |  |  |
| Initial Spares (\$ in Millions) | - | 1.500 | 10.700 | 6.800 | - | 6.800 | - | - | - | - | - | - |
| Flyaway Unit Cost (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Unit Cost (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |

## Description:




 Gorgon Stare operations supports JUON CC-0534, which the Joint Rapid Acquisition Cell (JRAC) dispositioned for sustainment.

 missions (one in FY19 and one in FY20).

FY 2020 funding totals include $\$ 21.3 \mathrm{M}$ in Overseas Contingency Operations.
FY 2021 funding totals include \$74.2M in Overseas Contingency Operations.
FY 2022 funding totals include $\$ 47.6 \mathrm{M}$ in Overseas Contingency Operations.

 (DMS) issues. Funding for this exhibit is contained in PE 0305206F.

| Exhibit P-40, Budget Line Item Justification: PB 2022 Air Force |  |  |  |  |  |  |  | Date: May 2021 |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: <br> 3010F: Aircraft Procurement, Air Force / BA 05: Modification of Inservice Aircraft / BSA 5: Other Aircraft |  |  |  |  |  | P-1 Line Item Number / Title: PRDTB3 / MQ-9 UAS Payloads |  |  |  |  |
| ID Cod | A=Service Ready, B=Not Service Ready): | Program Elements for Code B Items: 0305206F |  |  |  |  | Other Related Program Elements: 0305206F |  |  |  |
| Line Item MDAP/MAIS Code: N/A |  |  |  |  |  |  |  |  |  |  |
| Exhibits Schedule |  |  |  |  | Prior Years | FY 2020 | FY 2021 | FY 2022 Base | FY 2022 OCO | FY 2022 Total |
| Exhibit Type | Title* | Subexhibits | $\begin{aligned} & \text { ID } \\ & \text { CD } \end{aligned}$ | MDAP/ MAIS Code | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) |
| P-3a | 9169 / Gorgon Stare (Capability Improvement) |  | A |  | - / 50.905 | - /19.800 | - 163.500 | - 140.800 | - 10.000 | - 140.800 |
| P-40 | Total Gross/Weapon System Cost |  |  |  | - $/ 50.905$ | - /19.800 | - 163.500 | - 140.800 | - 10.000 | - $/ 40.800$ |

## *Title represents 1) the Number / Title for Items; 2) the Number / Title [DODIC] for Ammunition; and/or 3) the Number / Title (Modification Type) for Modifications.

Note: Totals in this Exhibit P-40 set may not be exact or sum exactly due to rounding.
Justification:
Where applicable, justification for individual modifications is provided in the P-3A exhibits.

Exhibit P-3a, Individual Modification: PB 2022 Air Force

## Appropriation / Budget Activity / Budget Sub Activity:

 3010F/05/5
## P-1 Line Item Number / Title: PRDTB3 / MQ-9 UAS Payloads

## Date: May 2021

## Modification Number / Title:

9169 / Gorgon Stare

ID Code (A=Serice Ready, $B=$ Not Service Ready) : A
MDAP/MAIS Code:

| Resource Summary | Prior Years | FY 2020 | FY 2021 | FY 2022 Base | FY 2022 OCO | FY 2022 Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Procurement Quantity (Units in Each) | - | - | - | - | - | - |
| Gross/Weapon System Cost (\$ in Millions) | 50.905 | 19.800 | 63.500 | 40.800 | 0.000 | 40.800 |
| Less PY Advance Procurement (\$ in Millions) | 0.000 | - | - | - | - | - |
| Net Procurement (P-1) (\$ in Millions) | 50.905 | 19.800 | 63.500 | 40.800 | 0.000 | 40.800 |
| Plus CY Advance Procurement (\$ in Millions) | - | - | - | - | - | - |
| Total Obligation Authority (\$ in Millions) | 50.905 | 19.800 | 63.500 | 40.800 | 0.000 | 40.800 |
| (The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.) |  |  |  |  |  |  |
| Initial Spares (\$ in Millions) | 7.716 | 1.500 | 10.700 | 6.800 | 0.000 | 6.800 |
| Gross/Weapon System Unit Cost (\$ in Millions) | - | - | - | - | - | - |

## Description:




 Gorgon Stare operations supports JUON CC-0534, which the Joint Rapid Acquisition Cell (JRAC) dispositioned for sustainment.

 missions (one in FY19 and one in FY20).

 upgrade, and an additional \$7.0M via the ISR Transfer Fund to procure artificial intelligence (AI) ready hardware supporting Project Maven specific upgrades.


 and enable the procurement of combat replacement pods. Additionally, procurement of Al processor kits were combined with the DMS processor replacement program currently underway.
 Quality Enhancements (IQE) Phase 2 kits.
 better meet the war fighting objectives. The Gorgon Stare program is managed by the 645th Aeronautical Systems Group. Funding for this exhibit is contained in PE 0305206F.

Milestone/Development Status

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| Exhibit P-3a, Individual Modification: PB 2022 Air Force |  | Date: May 2021 |
| :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3010F/05/5 | P-1 Line Item Number / Title: PRDTB3 / MQ-9 UAS Payloads | Modification Number / Title: 9169 / Gorgon Stare |
| ID Code (A=Service Ready, $\mathrm{B}=$ Not Service Ready : A |  | MDAP/MAIS Code: |
| Continuing tagging and tracking development efforts, development of an | co-collect capability, and development of |  |

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Exhibit P-40, Budget Line Item Justification: PB 2022 Air Force
Date: May 2021

## P-1 Line Item Number / Title:

SLC3SA / Senior Leader C3, System - Aircraft

## Appropriation / Budget Activity / Budget Sub Activity:

BSA 5: Other Aircraft

| ID Code (A=Service Ready, B=Not Service Ready) |  |  | Program Ele | ents for Cod | B Items: | 314F |  | Other Rela | Program | ents: 040 | 14F |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Line Item MDAP/MAIS Code: N/A |  |  |  |  |  |  |  |  |  |  |  |  |
| Resource Summary | Prior <br> Years | FY 2020 | FY 2021 | $\text { FY } 2022$ Base | $\begin{gathered} \text { FY } 2022 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \text { FY } 2022 \\ \text { Total } \end{gathered}$ | FY 2023 | FY 2024 | FY 2025 | FY 2026 | To Complete | Total |
| Procurement Quantity (Units in Each) | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Cost (\$ in Millions) | - | 0.000 | 0.000 | 23.554 | - | 23.554 | - | - | - | - | - | - |
| Less PY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Net Procurement (P-1) (\$ in Millions) | - | 0.000 | 0.000 | 23.554 | - | 23.554 | - | - | - | - | - | - |
| Plus CY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Total Obligation Authority (\$ in Millions) | - | 0.000 | 0.000 | 23.554 | - | 23.554 | - | - | - | - | - | - |
| (The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.) |  |  |  |  |  |  |  |  |  |  |  |  |
| Initial Spares (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Flyaway Unit Cost (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Unit Cost (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |

## Description:


 video architecture enhancements enabling Senior Leaders to make time critical decisions and manage crisis actions while airborne.

 correct mission communication system failures and address imminent capability and/or training deltas.


Exhibit P-40, Budget Line Item Justification: PB 2022 Air Force
Date: May 2021
Appropriation / Budget Activity / Budget Sub Activity:
3010F: Aircraft Procurement, Air Force / BA 05: Modification of Inservice Aircraft /
BSA 5: Other Aircraft

## P-1 Line Item Number / Title:

SLC3SA / Senior Leader C3, System - Aircraft BSA 5: Other Aircraft

| ID Code (A=Service Ready, B=Not Service Ready): B |  | Program Elements for Code B Items: 0401314F |  |  |  |  | Other Related Program Elements: 0401314F |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Line Item MDAP/MAIS Code: N/A |  |  |  |  |  |  |  |  |  |  |
| Exhibits Schedule |  |  |  |  | Prior Years | FY 2020 | FY 2021 | FY 2022 Base | FY 2022 OCO | FY 2022 Total |
| Exhibit Type | Title* | Subexhibits | $\begin{array}{\|l\|l\|} \hline \text { ID } \\ \text { C } \end{array}$ | MDAP/ MAIS Code | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) |
| P-40a*** | C-40-SLC3SA / C-40- SLC3SA (Capability Improvement) |  |  |  | 1 | 1 | 1 | - 13.570 | 1 | - 13.570 |
| P-40a*** | VC-25A - SLC3SA / VC-25A - SLC3SA (Capability Improvement) |  |  |  | 1 | 1 | 1 | - 10.098 | - 1 - | - 10.098 |
| P-3a | $1 / \mathrm{C}-32$ - SLC3SA (Capability Improvement) |  | B |  | 1 - | - 10.000 | - 10.000 | - 16.437 | - 10.000 | - 16.437 |
| P-3a | $2 / \mathrm{C}-37-$ SLC3SA (Capability Improvement) |  | B |  | 1 - | - 10.000 | - 10.000 | - / 13.449 | - 10.000 | - /13.449 |
| P-40 | Total Gross/Weapon System Cost |  |  |  | 1. | - 10.000 | - 10.000 | - 123.554 | 1 | - 123.554 |

${ }^{* * *}$ Although this is an Exhibit P-40a item, the actual exhibit is not included since all of the required information for this item is already being shown here.
*Title represents 1) the Number / Title for Items; 2) the Number / Title [DODIC] for Ammunition; and/or 3) the Number / Title (Modification Type) for Modifications
Note: Totals in this Exhibit P-40 set may not be exact or sum exactly due to rounding

## Justification:

This program, P-3A Mod C-32 - SLC3SA, C-32 - SLC3SA, is a new start.
This program, P-3A Mod C-37-SLC3SA, C-37-SLC3SA, is a new start.
This program, P-3A Mod C-40-SLC3SA, C-40-SLC3SA, is a new start.
This program, P-3A Mod VC-25A - SLC3SA, VC-25A - SLC3SA, is a new start.
 Enhanced (AEP-E), and tech refresh
 Enhanced (AEP-E), tech refresh.

FY22: 2 C-40B's will receive Senior Leader Communications enhancements consisting of, but not limited to: M3 Modem, bandwidth aggregation, In-flight Information (IFI), Commercial WiFi, Airborne Executive Phone-Enhanced (AEP-E), and tech refresh.

FY22: Funding is loaded for VC-25A in anticipation of emerging senior leader communications capability requirements

| Exhibit P-3a, Individual Modification: PB 2022 Air Force |  |  |  |  | Date: May 2021 |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity 3010F / 05 / 5 | P-1 Line Item Number / Title: <br> SLC3SA / Senior Leader C3, System - Aircraft |  |  |  | Modification Number / Title: 1 / C-32 - SLC3SA |  |
| ID Code (A=Service Ready, $B=$ Not Service Ready) : $B$ | MDAP/MAIS Code: |  |  |  |  |  |
| Resource Summary | Prior Years | FY 2020 | FY 2021 | FY 2022 Base | FY 2022 OCO | FY 2022 Total |
| Procurement Quantity (Units in Each) | - | - | - | - | - | - |
| Gross/Weapon System Cost (\$ in Millions) | - | 0.000 | 0.000 | 6.437 | 0.000 | 6.437 |
| Less PY Advance Procurement (\$ in Millions) | - | - | - | - | - | - |
| Net Procurement (P-1) (\$ in Millions) | - | 0.000 | 0.000 | 6.437 | 0.000 | 6.437 |
| Plus CY Advance Procurement (\$ in Millions) | - | - | - | - | - | - |
| Total Obligation Authority (\$ in Millions) | - | 0.000 | 0.000 | 6.437 | 0.000 | 6.437 |
| (The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.) |  |  |  |  |  |  |
| Initial Spares (\$ in Millions) | - | - | - | - | - | - |
| Gross/Weapon System Unit Cost (\$ in Millions) | - | - | - | - | - | - |

## Description:

This program, P-3A Mod C-32-SLC3SA, C-32-SLC3SA, is a new start.
The SLC3S-A Enhancements effort provides the capability to rapidly acquire, integrate in the Systems Integration Lab (SIL), modify, install and test new airborne communications technologies for four (4) C-32A Executive Airlift aircraft. These modifications consist of Top Secret/Sensitive Compartmented Information (TS/SCI), Secret (S), and Unclassified voice/data/video architecture enhancements enabling Senior Leaders to make time critical decisions and manage crisis actions while airborne.

These efforts ensure National Senior Leaders have redundant protected, survivable, and secure satellite, air-to-air, and air-to-ground communications for modern business enterprise systems and Command and Control functions globally while airborne. In addition to the aforementioned modifications, this funding implements National Leadership Command Capability Senior Leader Communications Council actions to correct mission communication system failures and address imminent capability and/or training deltas.

SLC3S-A unit kits costs are dependent on the starting configuration of each aircraft before modification, the communication upgrades required in the budget year and the associated installation costs.
FY22: two C-32As will be upgraded with Senior Leader Communications enhancements consisting of, but not limited to: bandwidth aggregation, In-flight Information (IFI), Commercial WiFi, Airborne Executive Phone-Enhanced (AEP-E), and technology upgrades.

Milestone/Development Status
Commercial-off-the-shelf item with non-recurring engineering for integration.

## UNCLASSIFIED

| Exhibit P-3a, Individual Modification: PB 2022 Air Force |  |  |  |  | Date: May 2021 |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5 |  | P-1 Line Item Number / Title: <br> SLC3SA / Senior Leader C3, System - Aircraft |  |  | Modification Number / Title: 1 / C-32-SLC3SA |  |
| ID Code (A=Service Ready, B=Not Service Ready) : B |  |  | MDAP/MAIS Code: |  |  |  |
| Models of Systems Affected: C-32A | Modification Type: Capability Improvement |  |  | Related RDT\&E PEs: 0401314F |  |  |
|  |  |  |  | FY 2022 Base | FY 2022 OCO | FY 2022 Total |
| Financial Plan | $\begin{gathered} \text { Qty (Each) I } \\ \text { Total Cost (\$ M) } \end{gathered}$ | $\begin{gathered} \text { Qty (Each) I } \\ \text { Total Cost }(\$ M) \end{gathered}$ | $\begin{gathered} \text { Qty (Each)I } \\ \text { Total Cost (\$M) } \\ \hline \end{gathered}$ | $\begin{gathered} \text { Qty (Each) I } \\ \text { Total Cost }(\$ \text { M) } \\ \hline \end{gathered}$ | $\begin{gathered} \text { Qty (Each)I } \\ \text { Total Cost (\$M) } \\ \hline \end{gathered}$ | $\begin{gathered} \text { Qty (Each) I } \\ \text { Total Cost (\$ M) } \\ \hline \end{gathered}$ |
| Procurement |  |  |  |  |  |  |
| Modification Item 1 of 1: MCS Upgrade (3) |  |  |  |  |  |  |
| A Kits |  |  |  |  |  |  |
| Recurring |  |  |  |  |  |  |
| MCS Upgrade:INSTALL KITS Group A (Active) | - 1 | - 1- | -1- | 2/2.333 | - 1- | 2/2.333 |
| Subtotal: Recurring | -1. | 1 | 1 | - 12.333 | -1- | - 12.333 |
| B Kits |  |  |  |  |  |  |
| Recurring |  |  |  |  |  |  |
| MCS Upgrade:EQUIPMENT Group B (Active) | - 1- | - 1- | - 1- | $2 / 1.604$ | - 1- | $2 / 1.604$ |
| Subtotal: Recurring | - 1 - | - 1- | - 1- | - 11.604 | - 1- | - 11.604 |
| Subtotal: MCS Upgrade (3) | - 1 - | - 1- | - 1- | - 13.937 | - 1- | - 13.937 |
| Subtotal: Procurement, All Modification Items | - | - / - | - / - | - 13.937 | 1 | - 13.937 |
| Support (All Modification Items) |  |  |  |  |  |  |
| GROUP A: TOTAL NONRECURRING | - $1-$ | - 1. | - 1- | - 11.000 | - 1 - | - 11.000 |
| Subtotal: Support | - 1. | - 1- | - 1- | - 11.000 | - 1- | - 11.000 |
| Installation |  |  |  |  |  |  |
| Modification Item 1 of 1: MCS Upgrade (3) | - 1- | - 1- | - 1 - | 211.500 | $1-$ | $2 / 1.500$ |
| Subtotal: Installation | 1 - | - 1- | - 1 - | 2/1.500 | - 1- | 2/1.500 |
| Total |  |  |  |  |  |  |
| Total Cost (Procurement + Support + Installation) | - | 0.000 | 0.000 | 6.437 | 0.000 | 6.437 |

## UNCLASSIFIED



| Exhibit P-3a, Individual Modification: PB 2022 Air Force |  |  |  |  | Date: May 2021 |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5 | P-1 Line Item Number / Title: <br> SLC3SA / Senior Leader C3, System - Aircraft |  |  |  | Modification Number / Title: 2 I C-37-SLC3SA |  |
| ID Code (A=Service Ready, B=Not Service Ready) : B | MDAP/MAIS Code: |  |  |  |  |  |
| Resource Summary | Prior Years | FY 2020 | FY 2021 | FY 2022 Base | FY 2022 OCO | FY 2022 Total |
| Procurement Quantity (Units in Each) | - | - | - | - | - | - |
| Gross/Weapon System Cost (\$ in Millions) | - | 0.000 | 0.000 | 13.449 | 0.000 | 13.449 |
| Less PY Advance Procurement (\$ in Millions) | - | - | - | - | - | - |
| Net Procurement (P-1) (\$ in Millions) | - | 0.000 | 0.000 | 13.449 | 0.000 | 13.449 |
| Plus CY Advance Procurement (\$ in Millions) | - | - | - | - | - | - |
| Total Obligation Authority (\$ in Millions) | - | 0.000 | 0.000 | 13.449 | 0.000 | 13.449 |
| (The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.) |  |  |  |  |  |  |
| Initial Spares (\$ in Millions) | - | - | - | - | - | - |
| Gross/Weapon System Unit Cost (\$ in Millions) | - | - | - | - | - | - |

## Description:

This program, P-3A Mod C-37-SLC3SA, C-37-SLC3SA, is a new start.

 Senior Leaders to make time critical decisions and manage crisis actions while airborne.

 correct mission communication system failures and address imminent capability and/or training deltas.

FY22: four C-37A/B's will be upgraded with Senior Leader Communications enhancements consisting of, but not limited to: In-Flight Information, Commercial WiFi, and Ka SATCOM capability, Airborne Executive Phone-Enhanced (AEP-E), and technology upgrades.

Milestone/Development Status
Commercial-off-the-shelf item with non-recurring engineering for integration.

## UNCLASSIFIED

| Exhibit P-3a, Individual Modification: PB 2022 Air Force |  |  |  |  | Date: May 2021 <br> Modification Number / Title: $2 \text { I C-37 - SLC3SA }$ |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5 |  | P-1 Line Item Number / Title: <br> SLC3SA / Senior Leader C3, System - Aircraft |  |  |  |  |
| ID Code (A=Service Ready, B=Not Service Ready) : B |  |  | MDAP/MAIS Code: |  |  |  |
| Models of Systems Affected: C-37 |  Modification Type: Capability Improvement  <br> Prior Years FY 2020 FY 2021 |  |  | Related RDT\&E PEs: 0401314F |  |  |
|  |  |  |  | FY 2022 Base | FY 2022 OCO | FY 2022 Total |
| Financial Plan | $\begin{gathered} \text { Qty (Each) I } \\ \text { Total Cost }(\$ M) \end{gathered}$ | $\begin{gathered} \text { Qty (Each) I } \\ \text { Total Cost (\$M) } \\ \hline \end{gathered}$ | $\begin{gathered} \text { Qty (Each) I } \\ \text { Total Cost (\$M) } \\ \hline \end{gathered}$ | $\begin{gathered} \text { Qty (Each) I } \\ \text { Total Cost (\$ M) } \\ \hline \end{gathered}$ | $\begin{gathered} \text { Qty (Each) I } \\ \text { Total Cost }(\$ M) \\ \hline \end{gathered}$ | $\begin{gathered} \text { Qty (Each) I } \\ \text { Total Cost }(\$ M) \\ \hline \end{gathered}$ |
| Procurement |  |  |  |  |  |  |
| Modification Item 1 of 1: MCS Upgrade (2) |  |  |  |  |  |  |
| A Kits |  |  |  |  |  |  |
| Recurring |  |  |  |  |  |  |
| MCS Upgrade:INSTALL KITS Group A (Active) | - 1 - | - 1- | - 1- | 4/8.237 | -1- | 4/8.237 |
| Subtotal: Recurring | - 1- | - 1- | - 1- | - 18.237 | - 1- | - 18.237 |
| B Kits |  |  |  |  |  |  |
| Recurring |  |  |  |  |  |  |
| MCS Upgrade:EQUIPMENT Group B (Active) | - 1- | 1 - | - 1- | 4/2.750 | - 1- | 4/2.750 |
| Subtotal: Recurring | -1 | - 1- | - 1 | - 12.750 | - 1 - | - 12.750 |
| Subtotal: MCS Upgrade (2) | - 1 | - 1. | - 1. | - /10.987 | -1- | - /10.987 |
| Subtotal: Procurement, All Modification Items | -1. | 1 - | - 1- | - /10.987 | - 1- | - /10.987 |
| Support (All Modification Items) |  |  |  |  |  |  |
| GROUP A: TOTAL NONRECURRING | - 1 | $1-$ | - 1 - | - 10.462 | - 1 - | - 10.462 |
| Subtotal: Support | -1. | - 1. | - 1. | - 10.462 | -1. | - 10.462 |
| Installation |  |  |  |  |  |  |
| Modification Item 1 of 1: MCS Upgrade (2) | - 1 - | $1-$ | - 1 | 4/2.000 | - 1- | 4/2.000 |
| Subtotal: Installation | - 1 - | - 1- | - 1- | 4/2.000 | - 1 - | 4/2.000 |
| Total |  |  |  |  |  |  |
| Total Cost (Procurement + Support + Installation) | - | 0.000 | 0.000 | 13.449 | 0.000 | 13.449 |

## UNCLASSIFIED



Exhibit P-40, Budget Line Item Justification: PB 2022 Air Force
Appropriation / Budget Activity / Budget Sub Activity:
3010F: Aircraft Procurement, Air Force / BA 05: Modification of Inservice Aircraft /
BSA 5: Other Aircraft

## P-1 Line Item Number / Title: <br> V02200 / CV-22 Mods

| ID Code (A=Service Ready, B=Not Service Ready): |  |  | Program Ele | nts for Cod | B Items: N |  |  | Other Rela | Program | ents: 04 | 318F |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Line Item MDAP/MAIS Code: 212 |  |  |  |  |  |  |  |  |  |  |  |  |
| Resource Summary | Prior Years | FY 2020 | FY 2021 | $\begin{gathered} \text { FY } 2022 \\ \text { Base } \end{gathered}$ | $\text { FY } 2022$ | $\begin{gathered} \text { FY } 2022 \\ \text { Total } \end{gathered}$ | FY 2023 | FY 2024 | FY 2025 | FY 2026 | To Complete | Total |
| Procurement Quantity (Units in Each) | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Cost (\$ in Millions) | 340.367 | 65.348 | 119.396 | 158.162 | 0.000 | 158.162 | - | - | - | - | - | - |
| Less PY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Net Procurement (P-1) (\$ in Millions) | 340.367 | 65.348 | 119.396 | 158.162 | 0.000 | 158.162 | - | - | - | - | - | - |
| Plus CY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Total Obligation Authority (\$ in Millions) | 340.367 | 65.348 | 119.396 | 158.162 | 0.000 | 158.162 | - | - | - | - | - | - |
| (The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.) |  |  |  |  |  |  |  |  |  |  |  |  |
| Initial Spares (\$ in Millions) | 1.123 | - | 6.574 | 10.525 | - | 10.525 | - | - | - | - | - | - |
| Flyaway Unit Cost (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Unit Cost (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |

## Description:

The CV-22 is the Air Force Special Operations Forces (SOF) variant of the joint multi-mission V-22 tilt rotor aircraft. The CV-22 provides long-range, high-speed infiltration, exfiltration, and resupply to Special Forces teams in hostile, denied, and politically sensitive areas. The Navy is the lead service for the Joint V-22 program. The Joint Program Manager is responsible for managing all variants of the V-22. Department of the Navy (DoN) funds the development of the MV-22 and CMV-22. The Air Force funds the service-common portion of the CV-22 while United States Special Operations Command (USSOCOM) funds the development and procurement of SOF peculiar systems. The designed service life for the aircraft is 10,000 flying hours over 30 years.

Funding for this exhibit contained in PE 0401318F.
Funding may be used to address Diminishing Manufacturing Source (DMS) and component obsolescence issues.
FY21 funding totals include 6.290M for Overseas Contingency Operations (OCO). The funding will be used to procure kits and install Tactical Network (TACNET) Receivers, wiring, and antennas. These kits provide Link 16 capability to provide situational awareness, threat avoidance, sensor points of interest, and fratricide prevention through datalink communication with other airborne and ground forces.

The FY2022 funding request was reduced by 2.746 M to account for the availability of prior year execution balances.
FY21 6.290M of OCO funding will procure 20 Link-16 kits in support of Operation Inherent Resolve (OIR).

| Exhibit P-40, Budget Line Item Justification: PB 2022 Air Force |  |  |  |  |  |  |  | Date: May 2021 |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: <br> 3010F: Aircraft Procurement, Air Force / BA 05: Modification of Inservice Aircraft / BSA 5: Other Aircraft |  |  |  |  |  | P-1 Line Item Number / Title: V02200 / CV-22 Mods |  |  |  |  |
| ID Cod | (A=Service Ready, B=Not Service Ready): A | Program Elements for Code B Items: N/A |  |  |  |  | Other Related Program Elements: 0401318F |  |  |  |
| Line Item MDAP/MAIS Code: 212 |  |  |  |  |  |  |  |  |  |  |
| Exhibits Schedule |  |  |  |  | Prior Years | FY 2020 | FY 2021 | FY 2022 Base | FY 2022 OCO | FY 2022 Total |
| Exhibit Type | Title* | Subexhibits | $\begin{aligned} & \text { ID } \\ & \text { CD } \end{aligned}$ | MDAP/ MAIS Code | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost <br> (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) |
| P-3a | 8790 / Block 20 Upgrade (Capability Improvement) |  | A |  | - 1318.962 | - 163.349 | - /117.397 | - /156.163 | - 10.000 | - /156.163 |
| P-3a | $1 /$ Low Cost Modifications (Other) |  | A |  | - 121.405 | - 11.999 | - 11.999 | - 11.999 | - 10.000 | - 11.999 |
| P-40 | Total Gross/Weapon System Cost |  |  |  | - 1340.367 | - 165.348 | - /119.396 | - /158.162 | - 10.000 | - / 158.162 |

*Title represents 1) the Number / Title for Items; 2) the Number / Title [DODIC] for Ammunition; and/or 3) the Number / Title (Modification Type) for Modifications.
Note: Totals in this Exhibit P-40 set may not be exact or sum exactly due to rounding.

## Justification:

The primary modification budgeted in FY 2022 is the Block C/20 Upgrade.

Exhibit P-3a, Individual Modification: PB 2022 Air Force

## Appropriation / Budget Activity / Budget Sub Activity:

 3010F/05/5
## P-1 Line Item Number / Title: V02200 / CV-22 Mods

Date: May 2021

## Modification Number / Title:

8790 / Block 20 Upgrade

ID Code (A=Service Ready, $B=$ Not Service Ready) : A
MDAP/MAIS Code:

| Resource Summary | Prior Years | FY 2020 | FY 2021 | FY 2022 Base | FY 2022 OCO | FY 2022 Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Procurement Quantity (Units in Each) | - | - | - | - | - | - |
| Gross/Weapon System Cost (\$ in Millions) | 318.962 | 63.349 | 117.397 | 156.163 | 0.000 | 156.163 |
| Less PY Advance Procurement (\$ in Millions) | - | - | - | - | - | - |
| Net Procurement (P-1) (\$ in Millions) | 318.962 | 63.349 | 117.397 | 156.163 | 0.000 | 156.163 |
| Plus CY Advance Procurement (\$ in Millions) | - | - | - | - | - | - |
| Total Obligation Authority (\$ in Millions) | 318.962 | 63.349 | 117.397 | 156.163 | 0.000 | 156.163 |
| (The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.) |  |  |  |  |  |  |
| Initial Spares (\$ in Millions) | 1.123 | - | 6.574 | 10.525 | - | 10.525 |
| Gross/Weapon System Unit Cost (\$ in Millions) | - | - | - | - | - | - |

## Description:


 projects in the CV-22 Block C/20 program, including nacelle modifications and enhanced self-deployment capabilities.


 Individual P-3As indicate which modifications are implemented at the Contract Field Team (CFT) or Organizational/Intermediate levels. Installation schedules reflect only CFT installs.
 software. Funding for DMS, flight test support, and software is included in the nonrecurring engineering cost category.

Milestone/Development Status
 Enhancement Capabilities.
 aircraft performance and survivability.





| Exhibit P-3a, Individual Modification: PB 2022 Air Force |  |  |  |  | Date: May 2021 |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5 |  | P-1 Line Item Number / Title: V02200 / CV-22 Mods |  |  | Modification Number / Title: 8790 / Block 20 Upgrade |  |
| ID Code (A=Service Ready, B=Not Service Ready) : A |  |  | MDAP/MAIS Code: |  |  |  |
| Models of Systems Affected: CV-22 | Modification Type: Capability Improvement |  |  | Related RDT\&E PEs: 0401318F |  |  |
| Financial Plan | Prior Years | FY 2020 | FY 2021 | FY 2022 Base | FY 2022 OCO | FY 2022 Total |
|  | $\begin{gathered} \text { Qty (Each)I } \\ \text { Total Cost (\$M) } \end{gathered}$ | $\begin{gathered} \hline \text { Qty (Each) I } \\ \text { Total Cost }(\$ M) \end{gathered}$ | $\begin{gathered} \text { Qty (Each) I } \\ \text { Total Cost (\$ M) } \\ \hline \end{gathered}$ | $\begin{gathered} \text { Qty (Each) I } \\ \text { Total Cost (\$ M) } \\ \hline \end{gathered}$ | $\begin{gathered} \hline \text { Qty (Each)I } \\ \text { Total Cost (\$M) } \\ \hline \end{gathered}$ | $\begin{gathered} \text { Qty (Each) I } \\ \text { Total Cost }(\$ M) \end{gathered}$ |
| Modification Item 9 of 26: Coanda Valve Reliability Improvement |  |  |  |  |  |  |
| B Kits |  |  |  |  |  |  |
| Recurring |  |  |  |  |  |  |
| Coanda Valve Reliability Improvement:EQUIPMENT Group B (Active) | - 1- | 1 - | 1. | $44 / 1.206$ | - 1 - | $44 / 1.206$ |
| Subtotal: Recurring | - 1 - | - 1 - | 1 - | - 11.206 | - 1 - | - 11.206 |
| Subtotal: Coanda Valve Reliability Improvement | - 1- | 1 | 1. | - 11.206 | - 1 - | - 11.206 |
| Modification Item 10 of 26: Cockpit Voice Recorder/KVADR ECP964 |  |  |  |  |  |  |
| B Kits |  |  |  |  |  |  |
| Recurring |  |  |  |  |  |  |
| Cockpit Voice Recorder/K-VADR ECP964:EQUIPMENT Group B (Active) | 27/0.914 | 12/0.432 | 13/0.468 | 8/0.288 | -1. | 8/0.288 |
| Subtotal: Recurring | - 10.914 | - 10.432 | - 10.468 | - 10.288 | - 1 - | - 10.288 |
| Subtotal: Cockpit Voice Recorder/K-VADR ECP964 | - 10.914 | - 10.432 | - 10.468 | - 10.288 | - 1- | - 10.288 |
| Modification Item 11 of 26: Data Transfer Unit Upgrade |  |  |  |  |  |  |
| B Kits |  |  |  |  |  |  |
| Recurring |  |  |  |  |  |  |
| Data Transfer Unit Upgrade:EQUIPMENT Group B (Active) | 51/1.020 | 1 - | - 1- | - 1- | - 1- | 1. |
| Subtotal: Recurring | - 11.020 | 1 - | 1 - | - 1 | - 1 - | - 1 - |
| Subtotal: Data Transfer Unit Upgrade | - 11.020 | - 1 - | - 1- | - 1- | - / - | - 1 - |
| Modification Item 12 of 26: Drive Tube ECP929 |  |  |  |  |  |  |
| B Kits |  |  |  |  |  |  |
| Recurring |  |  |  |  |  |  |
| Drive Tube ECP929:EQUIPMENT Group B (Active) | 10/0.563 | 1 - | - 1- | - 1 - | - 1- | - |
| Subtotal: Recurring | - 10.563 | - 1- | - 1- | - 1- | - 1 | - 1 |
| Subtotal: Drive Tube ECP929 | - 10.563 | - 1 - | - 1 - | -1 | - 1 - | - 1 |
| Modification Item 13 of 26: Electric Power System Upgrade (GCU) |  |  |  |  |  |  |
| B Kits |  |  |  |  |  |  |
| Recurring |  |  |  |  |  |  |


| Exhibit P-3a, Individual Modification: PB 2022 Air Force |  |  |  |  | Date: May 2021 |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5 |  | P-1 Line Item Number / Title: V02200 / CV-22 Mods |  |  | Modification Number / Title: 8790 / Block 20 Upgrade |  |
| ID Code (A=Service Ready, B=Not Service Ready) : A |  |  | MDAP/MAIS Code: |  |  |  |
| Models of Systems Affected: CV-22 | Modification Type: Capability Improvement |  |  | Related RDT\&E PEs: 0401318F |  |  |
|  | Prior Years | FY 2020 | FY 2021 | FY 2022 Base | FY 2022 OCO | FY 2022 Total |
|  | $\begin{gathered} \text { Qty (Each) I } \\ \text { Total Cost (\$M) } \end{gathered}$ | $\begin{gathered} \text { Qty (Each) I } \\ \text { Total Cost (\$ M) } \\ \hline \end{gathered}$ | $\begin{gathered} \text { Qty (Each) I } \\ \text { Total Cost (\$ M) } \\ \hline \end{gathered}$ | $\begin{gathered} \text { Qty (Each)I } \\ \text { Total Cost (\$M) } \end{gathered}$ | $\begin{gathered} \text { Qty (Each) I } \\ \text { Total Cost (\$ M) } \end{gathered}$ | $\begin{gathered} \text { Qty (Each) I } \\ \text { Total Cost (\$ M) } \end{gathered}$ |
| Electric Power System Upgrade (GCU):EQUIPMENT Group B (Active) | - 1- | 1. | 1 - | 13/1.100 | 1 | 13/1.100 |
| Subtotal: Recurring | - 1- | - 1- | - 1- | - 11.100 | - 1- | - 11.100 |
| Subtotal: Electric Power System Upgrade (GCU) | 1 - | 1 - | - 1- | - 11.100 | - 1- | - $/ 1.100$ |
| Modification Item 14 of 26: Engine Thermo-Couple Wiring Harness ECP1075 |  |  |  |  |  |  |
| B Kits |  |  |  |  |  |  |
| Recurring |  |  |  |  |  |  |
| Engine Thermo-Couple Wiring Harness ECP1075:EQUIPMENT Group B (Active) | 3210.500 | 11/0.177 | 7/0.116 | - 1- | - 1- | - 1- |
| Subtotal: Recurring | - 10.500 | - 10.177 | - 10.116 | - 1 | - 1- | - / - |
| Subtotal: Engine Thermo-Couple Wiring Harness ECP1075 | - 10.500 | - 10.177 | - 10.116 | 1 - | 1. | - $/$ - |
| Modification Item 15 of 26: Gen 5 Radio ECP866R1 |  |  |  |  |  |  |
| A Kits |  |  |  |  |  |  |
| Recurring |  |  |  |  |  |  |
| Gen 5 Radio ECP866R1:INSTALL KITS Group A (Active) | 39/11.896 | - 1- | - 1- | - 1- | - 1- | 1. |
| Subtotal: Recurring | - /11.896 | - 1- | - 1- | - 1- | - 1- | -1. |
| B Kits |  |  |  |  |  |  |
| Recurring |  |  |  |  |  |  |
| Gen 5 Radio ECP866R1:EQUIPMENT Group B (Active) | 3910.066 | -1- | - 1 - | - 1 - | - 1. | - $1-$ |
| Subtotal: Recurring | - 10.066 | 1 - | - 1- | $1-$ | - 1- | - 1- |
| Subtotal: Gen 5 Radio ECP866R1 | - /11.962 | - 1 - | - 1- | - 1 - | - 1- | - 1 - |
| Modification Item 16 of 26: HF Radio (BLOS) ECP1041 |  |  |  |  |  |  |
| B Kits |  |  |  |  |  |  |
| Recurring |  |  |  |  |  |  |
| HF Radio (BLOS) ECP 1041:EQUIPMENT Group B (Active) | 33/6.403 | $6 / 1.172$ | 6/1.172 | - 1- | - 1- | 1 - |
| Subtotal: Recurring | - 16.403 | - /1.172 | - 11.172 | - 1- | - 1- | - 1 |
| Subtotal: HF Radio (BLOS) ECP1041 | - 16.403 | - /1.172 | - 11.172 | - 1 - | - 1 - | - 1 - |
| Modification Item 17 of 26: Link 16 |  |  |  |  |  |  |
| B Kits |  |  |  |  |  |  |


| Exhibit P-3a, Individual Modification: PB 2022 Air Force |  |  |  |  | Date: May 2021 <br> Modification Number / Title: 8790 / Block 20 Upgrade |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5 |  | P-1 Line Item Number / Title: V02200 / CV-22 Mods |  |  |  |  |
| ID Code (A=Service Ready, B=Not Service Ready) : A |  |  | MDAP/MAIS Code: |  |  |  |
| Models of Systems Affected: CV-22 | Modification Type: Capability Improvement   <br> Prior Years FY 2020 FY 2021 |  |  | Related RDT\&E PEs: 0401318F |  |  |
| Financial Plan |  |  |  | FY 2022 Base | FY 2022 OCO | FY 2022 Total |
|  | $\begin{gathered} \text { Qty (Each) I } \\ \text { Total Cost (\$M) } \end{gathered}$ | $\begin{gathered} \text { Qty (Each) I } \\ \text { Total Cost (\$ M) } \end{gathered}$ | $\begin{gathered} \text { Qty (Each) I } \\ \text { Total Cost (\$ M) } \end{gathered}$ | $\begin{gathered} \text { Qty (Each) I } \\ \text { Total Cost (\$ M) } \end{gathered}$ | $\begin{gathered} \text { Qty (Each) I } \\ \text { Total Cost (\$ M) } \end{gathered}$ | $\begin{aligned} & \text { Qty (Each) I } \\ & \text { Total Cost (\$M) } \end{aligned}$ |
| Recurring |  |  |  |  |  |  |
| Link 16:EQUIPMENT Group B (Active) | - 1- | - 1 - | $20 / 6.290$ | 18/5.802 | - 1 - | 18/5.802 |
| Subtotal: Recurring | -1- | - 1- | - 16.290 | - 15.802 | - 1 - | - 15.802 |
| Subtotal: Link 16 | - 1- | - 1 - | - 16.290 | - 15.802 | - 1 - | - 15.802 |
| Modification Item 18 of 26: MAO VSLEDS |  |  |  |  |  |  |
| B Kits |  |  |  |  |  |  |
| Recurring |  |  |  |  |  |  |
| MAO VSLEDS:EQUIPMENT Group B (Active) | - 1- | - 1- | - 1- | 45/4.150 | - 1 - | 45/4.150 |
| Subtotal: Recurring | - 1- | 1 | 1 - | - 14.150 | - 1- | - 14.150 |
| Subtotal: MAO VSLEDS | - 1. | - 1 - | - 1- | - 14.150 | - 1. | - 14.150 |
| Modification Item 19 of 26: MCOI CAPRE |  |  |  |  |  |  |
| B Kits |  |  |  |  |  |  |
| Recurring |  |  |  |  |  |  |  |  |
| MCOI CAPRE:EQUIPMENT Group B (Active) | 40/0.435 | 12/0.132 | $1-$ | - 1 - | - 1 - | - 1 - |
| Subtotal: Recurring | - 10.435 | - 10.132 | - 1- | - 1 | - 1- | - 1- |
| Subtotal: MCOI CAPRE | - 10.435 | - 10.132 | - 1 - | - 1 - | - 1 - | - 1. |
| Modification Item 20 of 26: MCOI ECP873 |  |  |  |  |  |  |
| B Kits |  |  |  |  |  |  |
| Recurring |  |  |  |  |  |  |
| MCOI ECP873:EQUIPMENT Group B (Active) | 17/9.126 | $12 / 6.475$ | $12 / 6.200$ | - 1- | - 1 - | - 1- |
| Subtotal: Recurring | - 19.126 | - 16.475 | - 16.200 | - 1- | - 1 - | - 1- |
| Subtotal: MCOI ECP873 | - $/ 9.126$ | - 16.475 | - 16.200 | - 1- | - 1- | - 1- |
| Modification Item 21 of 26: Mode 5 APX-119 ECP935 |  |  |  |  |  |  |
| B Kits |  |  |  |  |  |  |
| Recurring |  |  |  |  |  |  |
| Mode 5 APX-119 ECP935:EQUIPMENT Group B (Active) | 36/2.288 | - 1- | 1 - | 1. | 1. | 1. |
| Subtotal: Recurring | - $/ 2.288$ | - 1- | - 1- | - 1 - | - 1 - | - 1- |
| Subtotal: Mode 5 APX-119 ECP935 | - $/ 2.288$ | 1 | 1 | - 1 | 1 | 1 - |
| Modification Item 22 of 26: O2N2 Concentrator Sieve Bed Correction ECP1107 |  |  |  |  |  |  |
| B Kits |  |  |  |  |  |  |
| Recurring |  |  |  |  |  |  |



Exhibit P-3a, Individual Modification: PB 2022 Air Force

## Appropriation / Budget Activity / Budget Sub Activity:

 3010F / 05 / 5
## P-1 Line Item Number / Title: V02200 / CV-22 Mods

Date: May 2021

## Modification Number / Title:

8790 / Block 20 Upgrade

ID Code (A=Service Ready, B=Not Service Ready) : A
MDAP/MAIS Code:

| Models of Systems Affected: CV-22 | Modification Type: Capability Improvement |  |  | Related RDT\&E PEs: 0401318F |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Prior Years | FY 2020 | FY 2021 | FY 2022 Base | FY 2022 OCO | FY 2022 Total |
| Financial Plan | Qty (Each) I Total Cost (\$ M) | Qty (Each) I Total Cost (\$ M) | Qty (Each) I Total Cost (\$ M) | $\begin{aligned} & \text { Qty (Each) I } \\ & \text { Total Cost (\$ M) } \end{aligned}$ | $\begin{aligned} & \text { Qty (Each) I } \\ & \text { Total Cost (\$ M) } \end{aligned}$ | $\begin{gathered} \text { Qty (Each) I } \\ \text { Total Cost (\$ M) } \end{gathered}$ |
| Subtotal: Upper and Lower Rod Ends (Formerly Pitch Link) | / - | 1 - | - 10.380 | - 10.380 | / - | - 10.380 |
| Subtotal: Procurement, All Modification Items | - /93.542 | - /25.331 | - /80.007 | - /95.674 | - / - | - /95.674 |
| Support (All Modification Items) |  |  |  |  |  |  |
| GROUP A: TOTAL NONRECURRING | - 170.930 | - /15.558 | - /11.517 | - /12.665 | - 1- | - 112.665 |
| PMA - Contractor Services | - 131.990 | - 16.989 | - 12.000 | - 17.000 | 1 - | - 17.000 |
| Mod of Spares | - 13.206 | - 10.250 | - 10.500 | - 12.000 | - 1 - | - 12.000 |
| Data | - 112.500 | - 13.550 | - 15.990 | - 14.000 | - 1 - | - 14.000 |
| SIM/TRAINER | 29/41.973 | 5/0.500 | 5/1.500 | 5/3.000 | - 1- | 5/3.000 |
| SUPPORT-EQUIP | - /10.936 | - 17.956 | - 18.331 | - /10.999 | - 1- | - 110.999 |
| OTHER GOVT | - 143.438 | - 10.500 | - 11.000 | - 15.700 | - 1- | - 15.700 |
| Subtotal: Support | 29/214.973 | 5/35.303 | 5/30.838 | 5/45.364 | / - | 5/45.364 |
| Installation |  |  |  |  |  |  |
| Modification Item 1 of 26: AC Bus Tie Impr/Manual Override Switches | $51 / 0.641$ | 1- | - I - | - 1- | - 1- | - 1- |
| Modification Item 2 of 26: Advanced Threat Warning System (JUON config) | 2213.542 | 5/0.734 | $12 / 1.764$ | 15/5.196 | - 1- | 15/5.196 |
| Modification Item 7 of 26: Blk 20 Nacelle Mods/ Conversion Area Harness | - 1- | 1 - | $1 / 0.645$ | 8/5.224 | 1 - | 8/5.224 |
| Modification Item 8 of 26: Blk C ECP901 | 21/3.329 | 1 - | 1 - | - 1- | - 1- | - 1- |
| Modification Item 10 of 26: Cockpit Voice Recorder/KVADR ECP964 | 16/0.286 | 11/0.198 | $12 / 0.144$ | 13/0.156 | 1 - | 13/0.156 |
| Modification Item 14 of 26: Engine Thermo-Couple Wiring Harness ECP1075 | $21 / 0.449$ | 11/0.256 | 11/0.267 | $7 / 0.174$ | - 1 - | 710.174 |
| Modification Item 15 of 26: Gen 5 Radio ECP866R1 | $20 / 0.268$ | 10/0.128 | $9 / 0.118$ | - 1 - | - 1- | - 1- |
| Modification Item 16 of 26: HF Radio (BLOS) ECP1041 | $22 / 0.975$ | 11/0.865 | $6 / 0.318$ | $6 / 0.350$ | 1 - | 6/0.350 |
| Modification Item 20 of 26: MCOI ECP873 | 5/0.329 | - 1 - | $12 / 3.296$ | $12 / 3.745$ | 1 - | $12 / 3.745$ |
| Modification Item 23 of 26: Prop Rotor Hub Spring \& Drive Link Impr | - 1 - | 11/0.534 | - 1 - | $1 / 0.057$ | - 1 - | 1/0.057 |
| Modification Item 24 of 26: Rudder Reliability ECP1020 | $36 / 0.628$ | 1 - | - 1 - | $10 / 0.223$ | - 1- | 10/0.223 |
| Subtotal: Installation | 214/10.447 | $59 / 2.715$ | 63/6.552 | 72/15.125 | 1 - | 72/15.125 |
| Total |  |  |  |  |  |  |
| Total Cost (Procurement + Support + Installation) | 318.962 | 63.349 | 117.397 | 156.163 | 0.000 | 156.163 |

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| Exhibit P-3a, Individual Modification: PB 2022 Air Force |  |  | Date: May 2021 |
| :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5 | P-1 Line Item Number / Title: V02200 / CV-22 Mods |  | Modification Number / Title: 8790 / Block 20 Upgrade |
| ID Code (A=Service Ready, B=Not Service Ready) : A |  | MDAP/MAIS Code: |  |
| Modification Item 6 of 26: Auto Dependent Surveillance-Broadcast ADSB/Out |  |  |  |
| Manufacturer Information |  |  |  |
| Manufacturer Name: iGATM |  | Manufacturer Location: Hanscom, MA |  |
| Administrative Leadtime (in Months): 9 |  | Production Leadtime (in Months): 12 |  |
| Dates FY 2020 | FY 2020 | FY 2021 | FY 2022 |
| Contract Dates |  | Jul 2022 |  |
| Delivery Dates |  | Jul 2023 |  |
|  |  |  |  |
| Installation Information |  |  |  |
| Method of Implementation (Organic): Org/Intermediate |  | Installation Quantity: 99 |  |

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| Exhibit P-3a, Individual Modification: PB 2022 Air Force |  |  | Date: May 2021 |
| :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5 | P-1 Line Item Number / Title: V02200 / CV-22 Mods |  | Modification Number / Title: 8790 / Block 20 Upgrade |
| ID Code (A=Service Ready, B=Not Service Ready) : A |  | MDAP/MAIS Code: |  |
| Modification Item 17 of 26: Link 16 |  |  |  |
| Manufacturer Information |  |  |  |
| Manufacturer Name: Data Link Solutions |  | Manufacturer Location: West Palm Beach, FL |  |
| Administrative Leadtime (in Months): 5 |  | Production Leadtime (in Months): 6 |  |
| Dates | FY 2020 | FY 2021 | FY 2022 |
| Contract Dates |  | Mar 2021 | Mar 2022 |
| Delivery Dates |  | Sep 2021 | Sep 2022 |
|  |  |  |  |
| Installation Information |  |  |  |
| Method of Implementation (Organic): Org/Intermediate |  |  | Installation Quantity: 38 |  |

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| Exhibit P-3a, Individual Modification: PB 2022 Air Force |  |  | Date: May 2021 |
| :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5 | P-1 Line Item Number / Title: V02200 / CV-22 Mods |  | Modification Number / Title: 8790 / Block 20 Upgrade |
| ID Code (A=Service Ready, B=Not Service Ready) : A <br> MDAP/MAIS Code: |  |  |  |
| Modification Item 22 of 26: O2N2 Concentrator Sieve Bed Correction ECP1107 |  |  |  |
| Manufacturer Information |  |  |  |
| Manufacturer Name: Bell-Boeing |  | Manufacturer Location: Amarillo, TX |  |
| Administrative Leadtime (in Months): 5 |  | Production Leadtime (in Months): 3 |  |
| Dates | FY 2020 | FY 2021 | FY 2022 |
| Contract Dates | Mar 2020 | Mar 2021 | Mar 2022 |
| Delivery Dates | Jun 2020 | Jun 2021 | Jun 2022 |
|  |  |  |  |
| Installation Information |  |  |  |
| Method of Implementation (Organic): Org/Intermediate |  | Installation Quantity: 52 |  |

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| Exhibit P-3a, Individual Modification: PB 2022 Air Force |  |  | Date: May 2021 |
| :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 5 |  | er / Title: s | Modification Number / Title: 8790 / Block 20 Upgrade |
| ID Code (A=Service Ready, B=Not Service Ready) : A |  | MDAP/MAIS Code: |  |
| Modification Item 26 of 26: Upper and Lower Rod Ends (Formerly Pitch Link) |  |  |  |
| Manufacturer Information |  |  |  |
| Manufacturer Name: Bell-Boeing |  | Manufacturer Location: Amarillo TX |  |
| Administrative Leadtime (in Months): 5 |  | Production Leadtime (in Months): 12 |  |
| Dates | FY 2020 | FY 2021 | FY 2022 |
| Contract Dates |  | Mar 2021 | Mar 2022 |
| Delivery Dates |  | Mar 2022 | Mar 2023 |
| Installation Information |  |  |  |
|  |  |  |  |  |
| Method of Implementation (Organic): Org/lntermediate |  | Installation Quantity: 120 |  |

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| Exhibit P-3a, Individual Modification: PB 2022 Air Force |  |  |  |  | Date: May 2021 |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05/5 |  | P-1 Line Item Number / Title: V02200 / CV-22 Mods |  |  | Modification Number / Title: 1 / Low Cost Modifications |  |
| ID Code (A=Service Ready, B=Not Service Ready) : A |  |  | MDAP/MAIS Code: |  |  |  |
| Models of Systems Affected: CV-22 | Modification Type: Other |  |  | Related RDT\&E PEs: 0401318F |  |  |
|  | Prior Years | FY 2020 | FY 2021 | FY 2022 Base | FY 2022 OCO | FY 2022 Total |
| Financial Plan | $\begin{gathered} \text { Qty (Each) I } \\ \text { Total Cost (\$ M) } \\ \hline \end{gathered}$ | $\begin{gathered} \text { Qty (Each) I } \\ \text { Total Cost (\$M) } \end{gathered}$ | $\begin{gathered} \text { Qty (Each) I } \\ \text { Total Cost (\$ M) } \end{gathered}$ | $\begin{gathered} \text { Qty (Each)I } \\ \text { Total Cost (\$M) } \end{gathered}$ | $\begin{gathered} \text { Qty (Each) I } \\ \text { Total Cost (\$ M) } \end{gathered}$ | $\begin{gathered} \text { Qty (Each) I } \\ \text { Total Cost (\$ M) } \end{gathered}$ |
| Procurement |  |  |  |  |  |  |
| Modification Item 1 of 1: LCM |  |  |  |  |  |  |
| A Kits |  |  |  |  |  |  |
| Recurring |  |  |  |  |  |  |
| LCM:INSTALL KITS Group A (Active) | $0 / 21.405$ | - 11.999 | - 11.999 | - 11.999 | - 1- | - 11.999 |
| Subtotal: Recurring | - /21.405 | - /1.999 | - /1.999 | - /1.999 | -1- | - 11.999 |
| Subtotal: LCM | - /21.405 | - 11.999 | - 11.999 | - 11.999 | - 1 - | - 11.999 |
| Subtotal: Procurement, All Modification Items | - /21.405 | - 11.999 | - 11.999 | - 11.999 | -1. | - 11.999 |
| Installation |  |  |  |  |  |  |
| Subtotal: Installation | - / - | - / - | - 1 - | - 1- | - / - | - 1- |
| Total |  |  |  |  |  |  |
| Total Cost (Procurement + Support + Installation) | 21.405 | 1.999 | 1.999 | 1.999 | 0.000 | 1.999 |

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[^0]:    -122BAS: FY 2022 President's Budget (Total Base Published Version), as of May 5, 2021 at $14: 47: 22$

[^1]:    Justification:
    FY 2022 funding is required for Low Cost Mods and Service Bulletins.

