UNCLASSIFIED

## Department of Defense

Fiscal Year (FY) 2024 Budget Estimates
March 2023


Air Force
Justification Book Volume 1 of 1
Procurement, Space Force

## THIS PAGE INTENTIONALLY LEFT BLANK

## UNCLASSIFIED

Air Force • Budget Estimates FY 2024 • Procurement

## Table of Volumes

Procurement, Space Force....................................................................................................................................Volume 1

## THIS PAGE INTENTIONALLY LEFT BLANK

## UNCLASSIFIED <br> Air Force • Budget Estimates FY 2024 • Procurement

## Volume 1 Table of Contents

Introduction and Explanation of Contents Volume 1 - v
Comptroller Exhibit P-1 ..... Volume 1 - vii
Master Line Item Table of Contents (by Appropriation then Line Number) ..... Volume 1-xv
Master Line Item Table of Contents (Alphabetically by Line Item Title) ..... Volume 1 - xix
Summary ..... Volume 1 -xxi
P1M Volume 1-xxiii
Acronyms ..... Volume 1-xxix
Exhibit P-40s ..... Volume 1-1

## THIS PAGE INTENTIONALLY LEFT BLANK

## UNCLASSIFIED

## Appropriation Language <br> Fiscal Year (FY) 2024 President's Budget <br> Procurement, Space Force

For construction, procurement, and modification of spacecraft, launch services, spares, and related equipment (including ground control and communication equipment) and training devices; expansion of public and private plants, Government-owned equipment and installation thereof in such plants, erection of structures, and acquisition of land, for the foregoing purposes, and such lands and interests therein, may be acquired, and construction prosecuted thereon prior to approval of title; reserve plant and Government and contractor-owned equipment layaway; and other expenses necessary for the foregoing purposes including rents and transportation of things; $\$ 4,714,294,000$ to remain available for obligations until September 30, 2026.

UNCLASSIFIED

## THIS PAGE INTENTIONALLY LEFT BLANK

# Department of the Air Force <br> FY 2024 President's Budget <br> <br> Exhibit P-1 FY 2024 President's Budget 

 <br> <br> Exhibit P-1 FY 2024 President's Budget}

## Total Obligational Authority <br> 3022F Detail

(Dollars in Thousands)

Appropriation: 3022 Procurement, Space Force

| Line |
| :---: |
| No Item Nomenclature |

Budget Activity 01: SPACE PROCUREMENT, SF

Space Procurement, SF

| 1 | AF Satellite Comm System | A | U |  | 39,655 |  | 45,963 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 2 | Cancelled Year Adjustments | A | U |  | 1 |  |  |
| 3 | Counterspace Systems | A | U |  | 64,804 |  | 60,241 |
| 4 | Family of Beyond Line-of-Sight Terminals | A | U |  | 36,544 |  | 16,144 |
| 5 | FABT FORCE ELEMENT TERMINAL | A | U |  |  |  |  |
| 6 | Wideband Gapfiller Satellites(Space) | A | U |  |  | 1 | 463,982 |
| 7 | General Information Tech - Space | A | U |  | 3,316 |  | 5,424 |
| 8 | GPSIII Follow On | A | U | 3 | 835,176 | 2 | 616,962 |
| 9 | GPS III Space Segment | A | U |  | 84,452 |  | 103,340 |
| 10 | Global Postioning (Space) | A | U |  | 2,274 |  | 950 |

[^0]
# Department of the Air Force <br> FY 2024 President's Budget 

## Exhibit P-1 FY 2024 President's Budget

## Total Obligational Authority <br> 3022F Detail

(Dollars in Thousands)

Appropriation: 3022 Procurement, Space Force
Line
No Item Nomenclature

Budget Activity 01: SPACE PROCUREMENT, SF

Space Procurement, SF

| 1 | AF Satellite Comm System | A | U |  | 45,963 |  | 64,345 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 2 | Cancelled Year Adjustments | A | U |  |  |  |  |
| 3 | Counterspace Systems | A | U |  | 60,241 |  | 52,665 |
| 4 | Family of Beyond Line-of-Sight Terminals | A | U |  | 16,144 |  | 25,057 |
| 5 | FABT FORCE ELEMENT TERMINAL | A | U |  |  |  | 121,634 |
| 6 | Wideband Gapfiller Satellites(Space) | A | U | 1 | 463,982 |  |  |
| 7 | General Information Tech - Space | A | U |  | 5,424 |  | 3,451 |
| 8 | GPSIII Follow On | A | U | 2 | 616,962 | 0 | 119,700 |
| 9 | GPS III Space Segment | A | U |  | 103,340 |  | 121,770 |
| 10 | Global Postioning (Space) | A | U |  | 950 |  | 893 |

## UNCLASSIFIED

## Department of the Air Force <br> FY 2024 President's Budget <br> Exhibit P-1 FY 2024 President's Budget

## Total Obligational Authority <br> 3022F Detail

(Dollars in Thousands)

## Appropriation: 3022 Procurement, Space Force

FY 2022 Actuals

FY 2023 Less Supplementals Enactment

FY 2023 Supplementals Enactment
Line
No Item Nomenclature $\quad$ Ident Se

| 11 | HERITAGE TRANSITION | A | U |  | 13,529 |  | 21,896 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 12 | Joint Tactical Ground Stations | A | U |  |  |  |  |
| 13 | Spaceborne Equip (Comsec) | A | U |  | 46,945 |  | 29,587 |
| 14 | MILSATCOM | A | U |  | 24,333 |  | 29,333 |
| 15 | SBIR High (Space) | A | U |  | 154,526 |  | 148,666 |
| 16 | Special Space Activities | A | U |  | 131,488 |  | 871,054 |
| 17 | Mobile User Objective System | A | U |  | 45,371 |  | 46,833 |
| 18 | National Security Space Launch | A | U | 5 | 1,287,347 | 3 | 1,024,803 |
| 19 | NUDET Detection System | A | U |  | 6,690 |  | 7,062 |
| 20 | PTES HUB | A | U |  | 7,406 | 6 | 42,464 |
| 21 | Rocket Systems Launch Program | A | U |  | 30,429 |  | 39,145 |
| 22 | Space Development Agency Launch | A | U |  |  | 7 | 746,288 |

*Includes enacted funding in the Ukraine Supplemental Appropriation Act, 2023 (Division B of Public Law 117-180) and Additional Ukraine Supplemental Appropriation Act, 2023 (Division M of Public Law 117-328).

## Department of the Air Force

FY 2024 President's Budget

## Exhibit P-1 FY 2024 President's Budget

## Total Obligational Authority <br> 3022F Detail

(Dollars in Thousands)
Appropriation: 3022 Procurement, Space Force
No Item Nomenclature

2 Joint Tactical Ground Stations

13 Spaceborne Equip (Comsec)

14 MILSATCOM

15 SBIR High (Space)

16 Special Space Activities

17 Mobile User Objective System

18 National Security Space Launch

19 NUDET Detection System

20 PTES HUB

21 Rocket Systems Launch Program

22 Space Development Agency Launch

FY 2023 Total Enactment
Ident Se

Code c Quantity
Cost
Quantity
Cost

A

A

A

A

A

A

A

A

A

A

A

U

U

U

U

U

U

U

U

U

U

U

U

21,896

29,587

29,333

148,666

871, 054

46,833

3 $1,024,803$

7,062

2,464

39,145

746,288

6,110

580

83,168

44,672

39,438

840,913

101,147
$102,142,846$
$12 \quad 56,482$

74,848

529,468

## Department of the Air Force <br> FY 2024 President's Budget <br> Exhibit P-1 FY 2024 President's Budget

 Total Obligational Authority 3022F Detail(Dollars in Thousands)


## UNCLASSIFIED

## Department of the Air Force

FY 2024 President's Budget Exhibit P-1 FY 2024 President's Budget

| Total Obligational Authority | Mar2023 |
| :--- | :--- |

(Dollars in Thousands)

FY 2023 Total Enactment
FY 2024 Request

## UNCLASSIFIED

## Department of the Air Force

FY 2024 President's Budget

## Exhibit P-1 FY 2024 President's Budget

Total Obligational Authority
3022F Detail
No Item Nomenclature
(Dollars in Thousands)
Code c Quantity
Quantity
Cost
23 Space Mods
24 Spacelift Range System Space

Total SPACE PROCUREMENT, SF

Budget Activity 02: SPARES

## Spares

25 Spares and Repair Parts
Total SPARES

Budget Activity 04: Other Base Maintenance and Support Equipment

Support Equipment

26 Power Conditioning Equipment
Total Other Base Maintenance and Support Equipment

Total Procurement, Space Force

U

A
U

|  | 68,257 | 166,596 |  |
| ---: | ---: | ---: | ---: |
| $\mathbf{1 9}$ | $\mathbf{4 , 4 6 0 , 1 0 6}$ | $\mathbf{2 7}$ | $\mathbf{4 , 7 1 0 , 2 8 8}$ |



## THIS PAGE INTENTIONALLY LEFT BLANK

## UNCLASSIFIED <br> Air Force • Budget Estimates FY 2024 • Procurement

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

Appropriation 3022F: Procurement, Space Force

| Line \# | BA | BSA | Line Item Number | Line Item Title | Page |
| :---: | :---: | :---: | :---: | :---: | :---: |
| 1 | 01 | 10 | AFSCOM | AF Satellite Comm System. | Volume 1-1 |
| 3 | 01 | 10 | CTRSPC | Counterspace Systems. | Volume 1-7 |
| 4 | 01 | 10 | FBLOST | Family of Beyond Line-of-Sight Terminals.. | Volume 1-13 |
| 5 | 01 | 10 | FET000 | FABT FORCE ELEMENT TERMINAL | Volume 1-17 |
| 6 | 01 | 10 | GAP000 | Wideband Gapfiller Satellites(Space). | Volume 1-23 |
| 7 | 01 | 10 | GNRLIT | General Information Tech - Space. | Volume 1-25 |
| 8 | 01 | 10 | GPS03C | GPSIII Follow On. | Volume 1-27 |
| 9 | 01 | 10 | GPSIII | GPS III Space Segment. | Volume 1-33 |
| 10 | 01 | 10 | GPSSPC | Global Postioning (Space). | Volume 1-39 |
| 11 | 01 | 10 | HRTG00 | HERITAGE TRANSITION. | Volume 1-41 |
| 12 | 01 | 10 | JTAGSO | Joint Tactical Ground Stations. | Volume 1-47 |
| 13 | 01 | 10 | MCOMSE | Spaceborne Equip (Comsec).. | Volume 1-49 |
| 14 | 01 | 10 | MILSAT | MILSATCOM. | ..Volume 1-55 |
| 15 | 01 | 10 | MSSBIR | SBIR High (Space). | Volume 1-63 |
| 16 | 01 | 10 | MSSPAC | Special Space Activities... | Volume 1-73 |
| 17 | 01 | 10 | MUOSOO | Mobile User Objective System... | Volume 1-75 |

## UNCLASSIFIED

Air Force • Budget Estimates FY 2024 • Procurement


## UNCLASSIFIED

## Air Force • Budget Estimates FY 2024 • Procurement

Appropriation 3022F: Procurement, Space Force

| Line \# | BA | BSA | Line Item Number | Line Item Title |
| :--- | :--- | :--- | :--- | :--- |
| 26 | 04 | 41 | POWCON | Power Conditioning Equipment....................................................................................Volume 1 - 159 |

## THIS PAGE INTENTIONALLY LEFT BLANK

## UNCLASSIFIED

Air Force • Budget Estimates FY 2024 • Procurement

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

| Line Item Title | Line Item Number | Line \# | BA | BSA | Page |
| :---: | :---: | :---: | :---: | :---: | :---: |
| AF Satellite Comm System | AFSCOM | 1 | 01 |  | .Volume 1-1 |
| Counterspace Systems | CTRSPC | 3 | 01 |  | Volume 1-7 |
| FABT FORCE ELEMENT TERMINAL | FET000 | 5 | 01 | 10. | Volume 1-17 |
| Family of Beyond Line-of-Sight Terminals | FBLOST | 4 | 01 |  | Volume 1-13 |
| GPS III Space Segment | GPSIII | 9 | 01 |  | .Volume 1-33 |
| GPSIII Follow On | GPS03C | 8 | 01 | 10. | Volume 1-27 |
| General Information Tech - Space | GNRLIT | 7 | 01 |  | Volume 1-25 |
| Global Postioning (Space) | GPSSPC | 10 | 01 | 10. | Volume 1-39 |
| HERITAGE TRANSITION | HRTG00 | 11 | 01 |  | Volume 1-41 |
| Joint Tactical Ground Stations | JTAGS0 | 12 | 01 | 10. | Volume 1-47 |
| MILSATCOM | MILSAT | 14 | 01 | 10. | Volume 1-55 |
| Mobile User Objective System | MUOS00 | 17 | 01 | 10. | Volume 1-75 |
| NUDET Detection System | NUDETS | 19 | 01 | 10. | .Volume 1-97 |
| National Security Space Launch | NSSL00 | 18 | 01 | 10. | Volume 1-87 |
| PTES HUB | PTES00 | 20 | 01 | 10. | Volume 1-99 |
| Power Conditioning Equipment | POWCON | 26 | 04 | 41. | Volume 1-159 |
| Rocket Systems Launch Program | RSLP00 | 21 | 01 |  | Volume 1-103 |

UNCLASSIFIED

## UNCLASSIFIED

Air Force • Budget Estimates FY 2024 • Procurement

| Line Item Title | Line Item Number | Line \# | BA | BSA | Page |
| :---: | :---: | :---: | :---: | :---: | :---: |
| SBIR High (Space) | MSSBIR | 15 | 01 | 10... | Volume 1-63 |
| Space Development Agency Launch | SDALCH | 22 | 01 | 10. | Volume 1-107 |
| Space Mods | SPCMOD | 23 | 01 | 10. | Volume 1-111 |
| Spaceborne Equip (Comsec) | MCOMSE | 13 | 01 | 10. | Volume 1-49 |
| Spacelift Range System Space | SPRNGE | 24 | 01 | 10. | Volume 1-147 |
| Spares and Repair Parts | SSPARE | 25 | 02 | 20. | Volume 1-157 |
| Special Space Activities | MSSPAC | 16 | 01 | 10. | ...Volume 1-73 |
| Wideband Gapfiller Satellites(Space) | GAP000 | 6 | 01 | 10. | ...Volume 1-23 |

## UNCLASSIFIED

```
    Department of the Air Force
    FY 2024 President's Budget
Exhibit P-1 FY 2024 President's Budget
Total Obligational Authority
3022F BA Summary
    (Dollars in Thousands)
```

|  | FY 2023 Less | FY 2023 |  |  |
| :--- | :---: | :---: | :---: | :---: |
| FY 2022 | Supplementals | Supplementals | FY 2023 Total | FY 2024 |
| Actuals | Enactment | Enactment | Enactment | Request |

Budget Activity

1. SPACE PROCUREMENT, SF
2. SPARES
04 . Other Base Maintenance and Support Equipment

Total Procurement, Space Force

| $2,964,384$ | $4,460,106$ |
| ---: | ---: |
| 1,282 | 1,352 |


| $4,460,106$ | $4,710,288$ |
| ---: | ---: |
| 1,352 | 3,106 |

*Includes enacted funding in the Ukraine Supplemental Appropriation Act, 2023 (Division B of Public Law 117-180) and Additional
Ukraine Supplemental Appropriation Act, 2023 (Division M of Public Law 117-328)

## THIS PAGE INTENTIONALLY LEFT BLANK

## P-1M MODIFICATION REPORT - 2024 PB

## 03/22/2023

| $\frac{\text { WEAPON }}{\text { SYSTEM }}$ | $\frac{\text { CLASS }}{\text { HRTG00 }}$ | $\frac{\text { MR }}{\text { P }}$ | MODIFICATION <br> HTRG1 |
| :--- | :--- | :--- | :--- |

TOTAL FOR CLASS P

TOTAL FOR OTHER HRTG00

| PRIOR | FY-22 | FY-23 | FY-24 | $\frac{\mathrm{FY}-24}{\underline{\mathrm{OCO}}}$ | $\frac{\text { Total }}{\text { FY-24 }}$ | FY-25 | FY-26 | FY-27 | FY-28 | $\frac{\mathrm{COST}}{\underline{\mathrm{TOGO}}}$ | $\frac{\text { TOTAL }}{\text { PROG }}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 13.5 | 21.9 | 6.1 |  | 6.1 | 13.3 | 10.2 | 9.0 | 9.2 |  | 83.2 |
|  | 13.5 | 21.9 | 6.1 |  | 6.1 | 13.3 | 10.2 | 9.0 | 9.2 |  | 83.2 |
|  | 13.5 | 21.9 | 6.1 |  | 6.1 | 13.3 | 10.2 | 9.0 | 9.2 |  | 83.2 |

## P-1M MODIFICATION REPORT - 2024 PB

## 03/22/2023

| $\begin{aligned} & \text { WEAPON } \\ & \hline \text { SYSTEM } \end{aligned}$ | CLASS | $\frac{\text { MOD }}{\underline{\text { NR }}}$ | $\frac{\text { MODIFICATION }}{\text { TITLE }}$ | PRIOR | FY-22 | FY-23 | FY-24 | $\frac{\mathrm{FY}-24}{\mathrm{OCO}}$ | $\begin{aligned} & \frac{\text { Total }}{} \\ & \text { FY-24 } \end{aligned}$ | FY-25 | FY-26 | FY-27 | FY-28 | $\frac{\mathrm{COST}}{\mathrm{TO} \mathrm{GO}}$ | $\frac{\text { TOTAL }}{\underline{\text { PROG }}}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| SPAF SBIRS Mobile | P | SPAF | SBIRS Mobile System \& Fixed Comm Electronics Upgrades | 19.3 | 8.1 | 42.3 | 29.2 |  | 29.2 |  |  |  |  |  | 98.8 |
| System and |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Fixed Comm |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Electronics |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Upgrades |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| TOTAL FOR CLASS P |  |  |  | 19.3 | 8.1 | 42.3 | 29.2 |  | 29.2 |  |  |  |  |  | 98.8 |
| TOTAL FOR | OTHER | AF SBI |  | 19.3 | 8.1 | 42.3 | 29.2 |  | 29.2 |  |  |  |  |  | 98.8 |

System and Fixed Comm Electronics
Upgrades

## P-1M MODIFICATION REPORT - 2024 PB

## 03/22/2023

| $\begin{aligned} & \text { WEAPON } \\ & \hline \text { SYSTEM } \end{aligned}$ | CLASS | $\frac{\mathrm{MOD}}{\underline{\mathrm{NR}}}$ | MODIFICATION | PRIOR | FY-22 | FY-23 | FY-24 | $\frac{\mathrm{FY}-24}{\mathrm{OCO}}$ | $\begin{aligned} & \frac{\text { Total }}{} \\ & \hline \mathrm{FY}-24 \end{aligned}$ | FY-25 | FY-26 | FY-27 | FY-28 | $\frac{\mathrm{COST}}{\mathrm{TO} \mathrm{GO}}$ | $\frac{\text { TOTAL }}{\text { PROG }}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| MUOS00 |  | MUOS 1 | Mobile User Objective System |  | 45.4 | 46.8 | 101.1 |  | 101.1 | 48.9 | 49.9 | 51.1 | 52.2 |  | 395.5 |
| TOTAL FOR CLASS |  |  |  |  | 45.4 | 46.8 | 101.1 |  | 101.1 | 48.9 | 49.9 | 51.1 | 52.2 |  | 395.5 |
| TOTAL FOR OTHER MUOS00 |  |  |  |  | 45.4 | 46.8 | 101.1 |  | 101.1 | 48.9 | 49.9 | 51.1 | 52.2 |  | 395.5 |

## P-1M MODIFICATION REPORT - 2024 PB

## 03/22/2023

| $\begin{aligned} & \text { WEAPON } \\ & \hline \text { SYSTEM } \end{aligned}$ | CLASS | $\frac{\mathrm{MOD}}{\underline{\mathrm{NR}}}$ | $\begin{aligned} & \text { MODIFICATION } \\ & \text { TITLE } \end{aligned}$ | PRIOR | FY-22 | FY-23 | FY-24 | $\frac{\mathrm{FY}-24}{\mathrm{OCO}}$ | $\begin{aligned} & \frac{\text { Total }}{} \\ & \underline{\text { FY-24 }} \end{aligned}$ | FY-25 | FY-26 | FY-27 | FY-28 | $\frac{\mathrm{COST}}{\mathrm{TOGO}}$ | $\frac{\text { TOTAL }}{\underline{\text { PROG }}}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1203165SF |  | NAVSTAR-1 | NAVSTAR GPS-OCS COTS UPGRADE |  | 0.1 | 1.4 |  |  |  |  |  |  |  |  | 1.5 |
| TOTAL FOR CLASS |  |  |  |  | 0.1 | 1.4 |  |  |  |  |  |  |  |  | 1.5 |
| тоtal | FOR OT | R 1203165SF |  |  | 0.1 | 1.4 |  |  |  |  |  |  |  |  | 1.5 |

## P-1M MODIFICATION REPORT - 2024 PB

## 03/22/2023

| $\begin{aligned} & \text { WEAPON } \\ & \hline \end{aligned}$ | CLASS | $\frac{\mathrm{MOD}}{\underline{\mathrm{NR}}}$ | $\frac{\text { MODIFICATION }}{\text { IITLE }}$ | PRIOR | FY-22 | FY-23 | FY-24 | $\frac{\mathrm{FY}-24}{\underline{\mathrm{OCO}}}$ | $\begin{aligned} & \frac{\text { Total }}{} \\ & \text { FY-24 } \end{aligned}$ | FY-25 | FY-26 | FY-27 | FY-28 | $\frac{\mathrm{COST}}{\underline{\mathrm{TOGO}}}$ | $\frac{\text { TOTAL }}{\underline{\text { PROG }}}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| CCSMP | P | 10.3 | Counter Communications System (CCS) Meadowlands Production | 43.6 | 59.8 | 55.0 | 50.6 |  | 50.6 | 4.2 | 2.0 | 2.1 | 2.1 |  | 219.4 |
| TOTAL FOR CLASS P |  |  |  | 43.6 | 59.8 | 55.0 | 50.6 |  | 50.6 | 4.2 | 2.0 | 2.1 | 2.1 |  | 219.4 |
| TOT | FOR O | ER CCS |  | 43.6 | 59.8 | 55.0 | 50.6 |  | 50.6 | 4.2 | 2.0 | 2.1 | 2.1 |  | 219.4 |

## THIS PAGE INTENTIONALLY LEFT BLANK

## UNCLASSIFIED

## 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 | - Contractor Furnished Equipment |
| CONOPS | - Concept of Operation |
| CONUS | - Continental United States |
| CPMS | - Comprehensive Power Management System |
| CPT | - Cockpit Procedures Trainer |
| CRA | - Continuing Resolution Authority |
| CTS | - Countermeasures Test Set |
| CY | - Current Year |
| ECCM | - Electronic Counter Counter-Measures |
| ECM | - Electronic Counter Measures |
| ECO | - Engineering Change Orders |
| EOQ | - Economic Order Quantity |
| ECP | - Engineering Change Proposal |
| EPA | - Economic Price Adjustment |
| EW | - Electronic Warfare |
| EWAISP | - Electronic Warfare Avionics Integration Support Facility |
| FLIR | - Forward Looking Infra Red |
|  |  |


| 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 |
| OOC | - Overseas Operations Costs |
| 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 | - Traffic Collision Alert and Avoidance System |
| TEWS | - Tactical Electronic Warfare System |
| TISS | - TEWS Intermediate Support System |
| TOA | - Total Obligation Authority |
| WCF | - Working Capital Fund |
| WRM | - War Reserve Material |
| WST | - Weapon System Trainer |
| UAV | - Unmanned Aerial Vehicle |
| XML | - Extensible Markup Language |
|  |  |

## BASE / ORGANIZATIONAL ACRONYMNS

| ACC | - Air Combat Command |
| :--- | :--- |
| AETC | - Air Education \& Training Command |
| AFCAO | - Air Force Computer Acquisition Office |
| AFCESA | - Air Force Civili 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 | - Central Intelligervice |
| CIA | - Defense General Support Center |
| DGSC | - Defense Logistics Center |
| DLA | - Department of Energy |
| DOE | - Defense Personnel Support Center |
| DPSC | - Defense Supply Center, Columbus |
| DSCC | - Defense Technical Information Center |
| DTIC | - Eastern Range |
| ER | - Fectronic Systems Center |
| ESC | - Federat Bureau Agency |
| FAA | - General Services Admestigation |
| FBI | - Joint Chiefs of Staff |
| GSA | - North Atlantic Treaty Organization |
| JCS | - Office of the Secretary of 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

## UNCLASSIFIED

## CONTRACT METHOD / TYPE ACRONYMNS

C
BA
BOA
BPA
CS
IDDQ
IDIQ
IDRT
Letter
LH
MIPR
MIPR-C
MIPR-OPT
MIPR-OTH
MIPR-SS
OPT
OTH
PO
REQN
SS
T\&M
UCA
WP

- Competitive
- Basic Agreement
- Basic Ordering Agreement
- Blanket Purchasing Agreement
- Cost Sharing
- Indefinite Delivery, Definite Quantity
- Indefinite Delivery, Indefinite Quantity
- Indefinite Delivery, Requirements
- Letter
- Labor-hour
- Military Interdepartmental Purchase Request
- Military Interdepartmental Purchase Request - Competitive
- Military Interdepartmental Purchase Request - Option
- Military Interdepartmental Purchase Request - Other
- Military Interdepartmental Purchase Request - Sole Source
- Option
- Other
- Project Order
- Requisition
- Sole Source
- Time and Materials
- Undefinitized Contract Action
- 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 Forceation Comm Training Command, Randolph AFB, TX |
| AFCIC | - Air Force Civil Engineering Support Agency, Tyndall AFB, FL |
| AFCESA |  |

UNCLASSIFIED

## UNCLASSIFIED

| AFFTC | - Air Force Flight Test Center, Edwards AFB, CA |
| :--- | :--- |
| 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 | - Defense Personnel Support Center, Philadelphia, PA |
| ER | - Electran Range, Patrick SFB, FL Systems Center, Hanscom AFB, MA |
| ESC | - Human Services Center, Brook AFB, TX |
| HSC | - Oklahoma City Air Logistics Center, Tinker AFB, OK |
| OC-ALC | - Ogden Air Logistics Center, Hill AFB, UT |
| OO-ALC | - Usace \& Missile Systems Center, Los Angeles AFB, CA |
| SMC | - Washingtog Command, Offutt AFB, NE |
| US STRATCOM |  |
| WACC | - Western Range, Vandenberg Center, Washington DC |
| 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

Appropriation / Budget Activity / Budget Sub Activity:
3022F: Procurement, Space Force / BA 01: Space Procurement, SF / BSA 10: Space Programs
ID Code (A=Service Ready, B=Not Service Ready): A
Program Elements for Code B Items: N/A

## P-1 Line Item Number / Title:

AFSCOM / AF Satellite Comm System

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

| Resource Summary | Prior Years | FY 2022 | FY 2023 | $\text { FY } 2024$ Base | $\begin{gathered} \text { FY } 2024 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \text { FY } 2024 \\ \text { Total } \end{gathered}$ | FY 2025 | FY 2026 | FY 2027 | FY 2028 | To Complete | Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Procurement Quantity (Units in Each) | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Cost (\$ in Millions) | - | 39.655 | 45.963 | 64.345 | - | 64.345 | 68.240 | 69.493 | 54.929 | 56.080 | - | 398.705 |
| Less PY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Net Procurement (P-1) (\$ in Millions) | - | 39.655 | 45.963 | 64.345 | - | 64.345 | 68.240 | 69.493 | 54.929 | 56.080 | - | 398.705 |
| Plus CY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Total Obligation Authority (\$ in Millions) | - | 39.655 | 45.963 | 64.345 | - | 64.345 | 68.240 | 69.493 | 54.929 | 56.080 | - | 398.705 |
| (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:






 satellite) because its high-power antennas are often the only terrestrial assets that can re-establish C2 with a non-responsive satellite.








 capabilities.

 continued cyber defense work, network automation, and Range/Network/Communication obsolescence replacements.


## Appropriation / Budget Activity / Budget Sub Activity: <br> 3022F: Procurement, Space Force / BA 01: Space Procurement, SF I BSA 10:

 Space ProgramsID Code (A=Service Ready, B=Not Service Ready): A $\quad$ Program Elements for Code B Items: N/A
Line Item MDAP/MAIS Code: N/A

| Exhibits Schedule |  |  |  |  | Prior Years | FY 2022 | FY 2023 | FY 2024 Base | FY 2024 OCO | FY 2024 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-5 | AF Satellite Comm System |  | A |  | - 1 - | - / 39.655 | - /45.963 | - 164.345 | - 1 - | - 164.345 |
| P-40 | Total Gross/Weapon System Cost |  |  |  | - 1 - | - 139.655 | - / 45.963 | - 164.345 | - 1 - | - 164.345 |

*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:

 unsustainable Automated Remote Tracking Station (ARTS) system.

 analysis, expertise and recommendations.
 configuration status accounting, configuration audits, and configuration identification.


 antennas, or phased array antennas - all on a single core electronic baseline that is more cyber secure.

 Moving the U.S. Government Toward Zero Trust Cybersecurity Principles.






 maintenance effort, down time, and lost or failed contacts.

Additionally, FY 2024 funding will allow the program to rapidly respond to implement system resiliency and situational awareness necessary to operate in the contested space domain.

UNCLASSIFIED


Line Item MDAPMAIS Code: N/A

Exhibit P-5, Cost Analysis: PB 2024 Air Force

## Appropriation / Budget Activity / Budget Sub Activity:

3022F / 01 / 10
ID Code (A=Service Ready, B=Not Service Ready) : A

## P-1 Line Item Number / Title: AFSCOM / AF Satellite Comm System

Date: March 2023

## Item Number / Title [DODIC]:

AF Satellite Comm System

| MDAP/MAIS Code: |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Resource Summary | Prior Years | FY 2022 | FY 2023 | FY 2024 Base | FY 2024 OCO | FY 2024 Total |
| Procurement Quantity (Units in Each) | - | - | - | - | - | - |
| Gross/Weapon System Cost (\$ in Millions) | - | 39.655 | 45.963 | 64.345 | - | 64.345 |
| Less PY Advance Procurement (\$ in Millions) | - | - | - | - | - | - |
| Net Procurement (P-1) (\$ in Millions) | - | 39.655 | 45.963 | 64.345 | - | 64.345 |
| Plus CY Advance Procurement (\$ in Millions) | - | - | - | - | - | - |
| Total Obligation Authority (\$ in Millions) | - | 39.655 | 45.963 | 64.345 | - | 64.345 |
| (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) | - | - | - | - | - | - |

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

|  | Prior Years |  |  | FY 2022 |  |  | FY 2023 |  |  | FY 2024 Base |  |  | FY 2024 OCO |  |  | FY 2024 Total |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Cost Elements | Unit Cost (\$ M) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost <br> (\$ M) | Unit Cost (\$ M) | Qty | Total Cost <br> (\$ M) | Unit Cost (\$ M) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost <br> (\$ M) | Unit Cost (\$ M) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost <br> (\$ M) | Unit Cost (\$ M) | Qty | Total Cost <br> (\$ M) | Unit Cost (\$ M) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost <br> (\$M) |

## Hardware - AF Satellite Control Network Cost

Non Recurring Cost

| Commodity Procurements | - | - | - | - | - | 0.605 | - | - | 5.420 | - | - | 5.050 | - | - | - | - | - | 5.050 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Modularized <br> Transitional Remote Tracking Station (RTS) (MTR) | - | - | - | - | - | 25.866 | - | - | 26.126 | - | - | 44.111 | - | - | - | - | - | 44.111 |
| Subtotal: Non Recurring Cost | - | - | - | - | - | 26.471 | - | - | 31.546 | - | - | 49.161 | - | - | - | - | - | 49.161 |
| Subtotal: Hardware - AF Satellite Control Network Cost | - | - | - | - | - | 26.471 | - | - | 31.546 | - | - | 49.161 | - | - | - | - | - | 49.161 |

Logistics - AF Satellite Comm System Cost


Sert
Services

UNCLASSIFIED

| Exhibit P-5, Cost Analysis: PB 2024 Air Force |  |  |  |  |  |  |  |  |  |  |  |  |  | Date: March 2023 |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3022F / 01 / 10 |  |  |  |  |  | P-1 Line Item Number / Title: AFSCOM / AF Satellite Comm System |  |  |  |  |  |  |  | Item Number / Title [DODIC]: AF Satellite Comm System |  |  |  |  |
| ID Code (A=Service Ready, B=Not Service Ready) : A |  |  |  |  |  |  |  |  |  | MDAP/MAIS Code: |  |  |  |  |  |  |  |  |
| Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding. |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | Prior Years |  |  | FY 2022 |  |  | FY 2023 |  |  | FY 2024 Base |  |  | FY 2024 OCO |  |  | FY 2024 Total |  |  |
| Cost Elements | Unit Cost (\$ M) | $\begin{gathered} \text { Qty } \\ (\text { (Each) } \end{gathered}$ | Total Cost <br> (\$ M) | Unit Cost (\$ M) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost <br> (\$ M) | Unit Cost (\$ M) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | $\begin{aligned} & \text { Total } \\ & \text { Cost } \\ & (\$ M) \\ & \hline \end{aligned}$ | Unit Cost (\$ M) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | Total Cost <br> (\$ M) | Unit Cost (\$ M) | Qty (Each) | Total Cost (\$ M) | Unit Cost (\$ M) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | Total Cost <br> (\$ M) |
| Subtotal: Support - AF Satellite Comm System Cost | - | . | . | - | - | 0.154 | - |  | 1.188 | - | . | 0.166 |  | . | . | . | - | 0.166 |
| Gross/Weapon System Cost | - | - | - | - |  | 39.655 | - | - | 45.963 | - | - | 64.345 | - | - | - | - | - | 64.345 |

Appropriation / Budget Activity / Budget Sub Activity:
3022F: Procurement, Space Force / BA 01: Space Procurement, SF / BSA 10: Space Programs

## P-1 Line Item Number / Title:

 CTRSPC / Counterspace Systems| ID Code (A=Service Ready, B=Not Service Ready): | Program Elements for Code B Items: 1206421SF | Other Related Program Elements: 1206421F |
| :--- | :--- | :--- | :--- |

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

| Resource Summary | Prior Years | FY 2022 | FY 2023 | $\begin{gathered} \text { FY } 2024 \\ \text { Base } \end{gathered}$ | $\begin{gathered} \text { FY } 2024 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \text { FY } 2024 \\ \text { Total } \end{gathered}$ | FY 2025 | FY 2026 | FY 2027 | FY 2028 | To Complete | Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Procurement Quantity (Units in Each) | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Cost (\$ in Millions) | 43.619 | 64.804 | 60.241 | 52.665 | - | 52.665 | 4.270 | 2.056 | 2.109 | 2.153 | - | 231.917 |
| Less PY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Net Procurement (P-1) (\$ in Millions) | 43.619 | 64.804 | 60.241 | 52.665 | - | 52.665 | 4.270 | 2.056 | 2.109 | 2.153 | - | 231.917 |
| Plus CY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Total Obligation Authority (\$ in Millions) | 43.619 | 64.804 | 60.241 | 52.665 | - | 52.665 | 4.270 | 2.056 | 2.109 | 2.153 | - | 231.917 |
| (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:



 (JROC) approved Capability Development Document (CDD) shall be accomplished as P3I upgrades to the CCS Block 10.



 requirements in an ever changing threat environment.
 Hunter was designated as a Program of Record and reached Initial Operational Capability in August 2020.

Developmental funding for BH is in PE 1206421SF, Counterspace Systems, Project 65A013 Bounty Hunter.
The FY 2024 funding request was reduced by $-\$ 16.109 \mathrm{M}$ to account for the availability of prior year execution balances.


 reduction, and other efforts to develop new or repurpose existing capabilities.

Exhibit P-40, Budget Line Item Justification: PB 2024 Air Force
Date: March 2023

## Appropriation / Budget Activity / Budget Sub Activity: <br> 3022F: Procurement, Space Force / BA 01: Space Procurement, SF / BSA 10:

 Space Programs| ID Code (A=Service Ready, B=Not Service Ready): | Program Elements for Code B Items: 1206421SF | Other Related Program Elements: 1206421F |
| :--- | :--- | :--- | :--- |

Line Item MDAP/MAIS Code: N/A

| Exhibits Schedule |  |  |  |  | Prior Years | FY 2022 | FY 2023 | FY 2024 Base | FY 2024 OCO | FY 2024 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-3a | 10.3 / Counter Communications System (CCS) Meadowlands Production (Capability Improvement) |  | B |  | 143.619 | - / 59.793 | - / 54.954 | - / 50.565 | - 10.000 | - / 50.565 |
| P-5 | Counterspace Systems |  | A |  | - 10.000 | 1/5.011 | 1/5.287 | - 12.100 | - 1 - | 12.100 |
| P-40 | Total Gross/Weapon System Cost |  |  |  | 143.619 | - 164.804 | - $/ 60.241$ | - 152.665 | - 1 | 152.665 |
| Exhibits Schedule |  |  |  |  | FY 2025 | FY 2026 | FY 2027 | FY 2028 | To Complete | 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 | 10.3 / Counter Communications System (CCS) Meadowlands Production (Capability Improvement) |  | B |  | - 14.241 | - 12.040 | - 12.090 | - 12.132 | - 1 - | - 1219.434 |
| P-5 | Counterspace Systems |  | A |  | - 1 | 1 | 1 | 1 | - 1 - | - 1 |
| P-40 | Total Gross/Weapon System Cost |  |  |  | - 14.270 | - 12.056 | - 12.109 | - 12.153 | - 1 - | - $/ 231.917$ |

*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:


 necessary to operate in the contested space domain. Activities may include, but are not limited to program office support, studies, technical analysis, etc.

Bounty Hunter (BH): No FY 2024 funding requested
 follows:
(a) FY 2025 Cost Delta: 0.029 million
${ }^{(b)}$ FY 2026 Cost Delta: 0.016 million
${ }^{(c)}$ FY 2027 Cost Delta: 0.019 million
${ }^{(d)}$ FY 2028 Cost Delta: 0.021 million
${ }^{(e)}$ FY Total Cost Delta: 12.483 million

UNCLASSIFIED

| Exhibit P-3a, Individual Modification: PB 2024 Air Force |  |  |  |  |  |  |  |  | Date: March 2023 |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3022F / 01 / 10 |  |  | P-1 Line Item Number / Title: CTRSPC / Counterspace Systems |  |  |  |  |  | Modification Number / Title: <br> 10.3 / Counter Communications System (CCS) Meadowlands Production |  |  |  |
| ID Code (A=Service Ready, B=Not Service Ready) : B |  |  |  |  |  | MDAP/MAIS Code: |  |  |  |  |  |  |
| Resource Summary | Prior Years | FY 2022 | FY 2023 | $\text { FY } 2024$ Base | $\begin{gathered} \hline \text { FY } 2024 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \text { FY } 2024 \\ \text { Total } \end{gathered}$ | FY 2025 | FY 2026 | FY 2027 | FY 2028 | To Complete | Total |
| Procurement Quantity (Units in Each) | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Cost (\$ in Millions) | 43.619 | 59.793 | 54.954 | 50.565 | 0.000 | 50.565 | 4.241 | 2.040 | 2.090 | 2.132 | - | 219.434 |
| Less PY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Net Procurement (P-1) (\$ in Mililions) | 43.619 | 59.793 | 54.954 | 50.565 | 0.000 | 50.565 | 4.241 | 2.040 | 2.090 | 2.132 | - | 219.434 |
| Plus CY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Total Obligation Authority (\$ in Millions) | 43.619 | 59.793 | 54.954 | 50.565 | 0.000 | 50.565 | 4.241 | 2.040 | 2.090 | 2.132 | - | 219.434 |
| (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 Counter Communications System (CCS) Pre-planned Product Improvement (P3I) program provides expeditionary, deployable, reversible offensive space control (OCS) effects applicable across the full spectrum of conflict. It prevents adversary satellite communications (SATCOM) in the Area of Responsibility (AOR) including Command and Control (C2), Early Warning, and Propaganda; and hosts Rapid Reaction Capabilities in response to Urgent Needs. Acquisition Decision Memorandum (24 April 2009) directed all capabilities identified in the October 2006 CCS Block 20, Joint Requirements Oversight Council (JROC) approved Capability Development Document (CDD) shall be accomplished as P3I upgrades to the CCS Block 10.

Funding for this exhibit is in Program Element (PE) 1206421SF, Counterspace Systems. Developmental funding for CCS is in PE 1206421SF, Project 65A001 Counter Satellite Communications System.
Milestone/Development Status
Authority to Proceed - 1QFY22; IBR Phase 2 2QFY22; CLIN 200 Begin - 3QFY22; GFE PICKUP - 4QFY22; Developmental / Operational Test - 2QFY23; Deliveries Begin - 4QFY23; CLIN 300 Begin - 3QFY23

UNCLASSIFIED


## UNCLASSIFIED



## UNCLASSIFIED



Exhibit P-40, Budget Line Item Justification: PB 2024 Air Force
Date: March 2023

## Appropriation / Budget Activity / Budget Sub Activity:

3022F: Procurement, Space Force / BA 01: Space Procurement, SF / BSA 10: Space Programs
ID Code (A=Service Ready, B=Not Service Ready): B
Program Elements for Code B Items: 1203001SF

## P-1 Line Item Number / Title:

FBLOST / Family of Beyond Line-of-Sight Terminals

Line Item MDAP/MAIS Code: N/A

| Resource Summary | Prior <br> Years | FY 2022 | FY 2023 | $\text { FY } 2024$ Base | $\text { FY } 2024$ | $\begin{gathered} \text { FY } 2024 \\ \text { Total } \end{gathered}$ | FY 2025 | FY 2026 | FY 2027 | FY 2028 | To Complete | Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Procurement Quantity (Units in Each) | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Cost (\$ in Millions) | - | 36.544 | 16.144 | 25.057 | - | 25.057 | 17.235 | 16.110 | 6.809 | 5.161 | - | 123.060 |
| Less PY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Net Procurement (P-1) (\$ in Millions) | - | 36.544 | 16.144 | 25.057 | - | 25.057 | 17.235 | 16.110 | 6.809 | 5.161 | - | 123.060 |
| Plus CY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Total Obligation Authority (\$ in Millions) | - | 36.544 | 16.144 | 25.057 | - | 25.057 | 17.235 | 16.110 | 6.809 | 5.161 | - | 123.060 |
| (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:

 data rate communication for nuclear and conventional forces to include Presidential and National Voice Conferencing (PNVC).

FAB-T CPT will provide this new, highly secure, state-of-the-art capability for DoD platforms to include strategic platforms and airborne/ground command posts via Milstar and Advanced EHF (AEHF) satellites. FAB-T terminals will also support the critical command and control (C2) of the Milstar and AEHF satellite constellations. In June 2014, the Department of the Air Force down-selected to Raytheon for production of FAB-T CPT. Production contract options to produce CPT terminals were exercised after a successful Milestone C decision was approved September 1, 2015. In FY 2019, the FAB-T Program Management Office executed the final Low Rate Initial Production (LRIP) procurement to complete the total of 84 LRIP CPTs on contract. CPT has now procured 41 Ground Fixed, 20 Ground Transportable, and 23 Airborne Antennas. In FY 2024, FAB-T CPT will continue to pursue activities that ensure FAB-T CPT terminal interoperability with the full AEHF satellite constellation.

The PNVC capability is a critical element of the Nuclear Command, Control, and Communications (NC3) system. PNVC, as the Survivable Emergency Conferencing Network (SECN) replacement capability, provides anti-jam, anti-scintillation, survivable, and endurable voice communications through the AEHF satellite system for national and strategic users. Equipment upgrades required for this system include the development and production of several new components by other organizations, including the Baseband Interface Group (BIG) and Multi-Stream Summing Device (MSD III) for airborne users and the Baseband Kit (BBK) / PNVC Equipment enclosure for mobile users.

The PNVC Integrator is responsible for all program elements and funding, including those related to the Defense Information Systems Agency (DISA) and National Security Agency (NSA) components of the PNVC system, in accordance with the transfer directed in the FY 2018 National Defense Authorization Act, Sec. 1661. PNVC funds were transferred from DISA to the Department of the Air Force (DAF) beginning in FY 2021, and the PNVC Integrator will continue to procure remaining PNVC equipment until all fielding is complete. In October 2021, PNVC completed Milestone B/C.

FAB-T CPT was reflected in previous Program Exhibits in the Prior Years through FY 2014-2020. PNVC was reflected in previous Program Exhibits in the Prior Years through FY 2015-2020. Funding for this exhibit is contained in PE 1203001SF.

| Exhibit P-40, Budget Line Item Justification: PB 2024 Air Force |  |  |  |  |  |  |  | Date: March 2023 |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: <br> 3022F: Procurement, Space Force / BA 01: Space Procurement, SF I BSA 10: <br> Space Programs |  |  |  |  |  | P-1 Line Item Number / Title: <br> FBLOST / Family of Beyond Line-of-Sight Terminals |  |  |  |  |
| ID Cod | (A=Service Ready, B=Not Service Ready): B | Program Elements for Code B Items: 1203001SF |  |  |  |  | Other Related Program Elements: 0303001F, 0303601F, 1203001F |  |  |  |
| Line Item MDAP/MAIS Code: N/A |  |  |  |  |  |  |  |  |  |  |
| Exhibits Schedule |  |  |  |  | Prior Years | FY 2022 | FY 2023 | FY 2024 Base | FY 2024 OCO | FY 2024 Total |
| Exhibit Type | Title* | Subexhibits | ID <br> CD | 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-5 | Family of Beyond Line-of-Sight Terminals |  | B |  | - 1 - | 136.544 | - /16.144 | $\qquad$ | - 1 - | - 125.057 |
| P-40 | Total Gross/Weapon System Cost |  |  |  | - 1 - | - 136.544 | - / 16.144 | $-\quad 125.057$ $-\quad / 25.057$ | - 1 - | - 125.057 |
| *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: <br> In FY 2024, FAB-T CPT will continue to pursue activities that ensure CPT terminal interoperability with the full AEHF satellite constellation, deliver airborne terminals to aircraft depots, provide interim contractor support for the existing fielded terminals, operator training, and ramp up organic depot activation efforts in preparation for long-term hardware, software, and crypto sustainment. <br> In FY 2024, PNVC will continue to procure BBK enclosures and any remaining PNVC equipment required for fielding activities, and provide support capability for fielded units including interim contractor support and depot activation activities. |  |  |  |  |  |  |  |  |  |  |

## UNCLASSIFIED

Exhibit P-5, Cost Analysis: PB 2024 Air Force

## Appropriation / Budget Activity / Budget Sub Activity

3022F / 01 / 10
ID Code (A=Service Ready, B=Not Service Ready) : B

## P-1 Line Item Number / Title: FBLOST / Family of Beyond Line-of-Sight Terminals

Date: March 2023

## Item Number / Title [DODIC]:

Family of Beyond Line-of-Sight Terminals

MDAP/MAIS Code:

| Resource Summary | Prior Years | FY 2022 | FY 2023 | FY 2024 Base | FY 2024 OCO | FY 2024 Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Procurement Quantity (Units in Each) | - | - | - | - | - | - |
| Gross/Weapon System Cost (\$ in Millions) | - | 36.544 | 16.144 | 25.057 | - | 25.057 |
| Less PY Advance Procurement (\$ in Millions) | - | - | - | - | - | - |
| Net Procurement (P-1) (\$ in Millions) | - | 36.544 | 16.144 | 25.057 | - | 25.057 |
| Plus CY Advance Procurement (\$ in Millions) | - | - | - | - | - | - |
| Total Obligation Authority (\$ in Millions) | - | 36.544 | 16.144 | 25.057 | - | 25.057 |
| (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) | - | - | - | - | - | - |

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding

| Cost Elements | Prior Years |  |  | FY 2022 |  |  | FY 2023 |  |  | FY 2024 Base |  |  | FY 2024 OCO |  |  | FY 2024 Total |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Unit Cost (\$ M) | $\underset{\text { (Each) }}{\text { Qty }}$ | Total Cost <br> (\$ M) | Unit Cost (\$ M) | Qty | Total Cost <br> (\$ M) | Unit Cost (\$ M) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost <br> (\$ M) | Unit Cost <br> (\$ M) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost <br> (\$ M) | Unit Cost (\$ M) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | Total Cost <br> (\$ M) | Unit Cost (\$ M) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost (\$ M) |
| Hardware - Presidential and National Voice Conferencing (PNVC) Cost |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Recurring Cost |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| BBKs / PNVC Equipment | - | - | - | - | - | 5.799 | - | - | 3.066 | - | - | 3.308 | - | - | - | - | - | 3.308 |
| Subtotal: Recurring Cost | - | - | - | - | - | 5.799 | - | - | 3.066 | - | - | 3.308 | - | - | - | - | - | 3.308 |
| Subtotal: Hardware - <br> Presidential and National Voice Conferencing (PNVC) Cost | - | - | - | - | - | 5.799 | - | - | 3.066 | - | - | 3.308 | - | - | - | - | - | 3.308 |

Hardware - Family of Beyond Line-of-Sight Terminals (FAB-T) Cost

| FAB-T Terminals (PE 33601F/33001F) | - | - | - | - | - | 3.118 | - | - | 0.940 | - | - | 0.800 | - | - | - | - | - | 0.800 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Technical Mission Analysis | - | - | - | - | - | 0.989 | - | - | 0.942 | - | - | 0.840 | - | - | - | - | - | 0.840 |
| Subtotal: Recurring Cost | - | - | - | - | - | 4.107 | - | - | 1.882 | - | - | 1.640 | - | - | - | - | - | 1.640 |
| Subtotal: Hardware - Family of Beyond Line-of-Sight Terminals (FAB-T) Cost | - | - | - | - | - | 4.107 | - | - | 1.882 | - | - | 1.640 | - | - | - | - | - | 1.640 |
| Logistics - Family of Beyond Line-of-Sight Terminals (FAB-T) Cost |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Recurring Cost |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Interim Contractor Support | - | - | - | - | - | 14.234 | - | - | 4.649 | - | - | 4.500 | - | - | - | - | - | 4.500 |
| Depot Activation | - | - | - | - | - | 8.243 | - | - | 3.568 | - | - | 12.809 | - | - | - | - | - | 12.809 |
| Subtotal: Recurring Cost | - | - | - | - | - | 22.477 | - | - | 8.217 | - | - | 17.309 | - | - | - | - | - | 17.309 |

LI FBLOST - Family of Beyond Line-of-Sight Terminals Air Force

UNCLASSIFIED
Page 3 of 4

UNCLASSIFIED

| Exhibit P-5, Cost Analysis: PB 2024 Air Force |  |  |  |  |  |  |  |  |  |  |  |  |  | Date: March 2023 |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3022F / 01 / 10 |  |  |  |  |  | P-1 Line Item Number / Title: <br> FBLOST / Family of Beyond Line-of-Sight Terminals |  |  |  |  |  |  |  | Item Number / Title [DODIC]: <br> Family of Beyond Line-of-Sight Terminals |  |  |  |  |
| ID Code (A=Service Ready, B=Not Service Ready) : B |  |  |  |  |  |  |  |  |  | MDAP/MAIS Code: |  |  |  |  |  |  |  |  |
| Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding. |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | Prior Years |  |  | FY 2022 |  |  | FY 2023 |  |  | FY 2024 Base |  |  | FY 2024 OCO |  |  | FY 2024 Total |  |  |
| Cost Elements | Unit Cost (\$ M) | $\begin{gathered} \text { Qty } \\ (\text { (Each) } \end{gathered}$ | Total Cost (\$ M) | Unit Cost (\$ M) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | $\begin{aligned} & \text { Total } \\ & \text { Cost } \end{aligned}$ (\$M) | Unit Cost (\$M) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | Total Cost <br> (\$ M) | Unit Cost (\$ M) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | Total Cost $\qquad$ | Unit Cost (\$ M) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | Total Cost $\qquad$ | Unit Cost (\$ M) | $\begin{gathered} \text { Qty } \\ (\text { Each }) \end{gathered}$ | Total Cost $\qquad$ |
| Subtotal: Logistics - Family of Beyond Line-of-Sight Terminals (FAB-T) Cost | - | . | - | . | . | 22.477 | - | . | 8.217 | . | . | 17.309 | . | . | . | - | . | 17.309 |
| Support - Family of Beyond Line-of-Sight Terminals (FAB-T) Cost |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| FAB-T A\&AS | - | - | - | - | - | 3.494 | - | - | 2.035 | - | - | 2.000 | - | - | - | - | - | 2.000 |
| Other Support | - | - | - | - | - | 0.667 | - | - | 0.944 | - | - | 0.800 | - | - | - | - | - | 0.800 |
| Subtotal: Support - Family of Beyond Line-of-Sight Terminals (FAB-T) Cost | - | - | - | - | - | 4.161 | - | - | 2.979 | - | - | 2.800 | - | - | - | - | - | 2.800 |
| Gross/Weapon System Cost | - |  | - | - |  | 36.544 |  |  | 16.144 | - | - | 25.057 |  | - | - |  |  | 25.057 |

## Remarks:

This P-Doc incorporates PE 1203001SF for FAB-T / PNVC.

Exhibit P-40, Budget Line Item Justification: PB 2024 Air Force
Date: March 2023

## Appropriation / Budget Activity / Budget Sub Activity:

3022F: Procurement, Space Force / BA 01: Space Procurement, SF / BSA 10: Space Programs

| ID Code (A=Service Ready, B=Not Service Ready): |  |  | Program Elements for Code B Items: N/A |  |  |  |  | Other Related Program Elements: 1203001SF |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Line Item MDAP/MAIS Code: N/A |  |  |  |  |  |  |  |  |  |  |  |  |
| Resource Summary | Prior <br> Years | FY 2022 | FY 2023 | FY 2024 Base | $\begin{gathered} \text { FY } 2024 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \text { FY } 2024 \\ \text { Total } \end{gathered}$ | FY 2025 | FY 2026 | FY 2027 | FY 2028 | To Complete | Total |
| Procurement Quantity (Units in Each) | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Cost (\$ in Millions) | - | 0.000 | 0.000 | 121.634 | - | 121.634 | 234.255 | 212.400 | 23.447 | 23.939 | - | 615.675 |
| Less PY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Net Procurement (P-1) (\$ in Millions) | - | 0.000 | 0.000 | 121.634 | - | 121.634 | 234.255 | 212.400 | 23.447 | 23.939 | - | 615.675 |
| Plus CY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Total Obligation Authority (\$ in Millions) | - | 0.000 | 0.000 | 121.634 | - | 121.634 | 234.255 | 212.400 | 23.447 | 23.939 | - | 615.675 |
| (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 Family of Advanced Beyond Line-of-Sight Terminals (FAB-T) Force Element Terminal (FET) production program is a new start in FY 2024.


 constellations utilizing Extended Data Rate (XDR) waveforms and will be installed on the B-52 aircraft.
 transition to the Major Capability Acquisition Pathway at Milestone C in FY24. This budget line provides funding for the follow-on production program.


Exhibit P-5, Cost Analysis: PB 2024 Air Force

## Appropriation / Budget Activity / Budget Sub Activity:

 3022F / 01 / 10
## P-1 Line Item Number / Title: FET000 / FABT FORCE ELEMENT TERMINAL

Date: March 2023
Item Number / Title [DODIC]:
FABT FORCE ELEMENT TERMINAL

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

| Resource Summary | Prior Years | FY 2022 | FY 2023 | FY 2024 Base | FY 2024 OCO | FY 2024 Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Procurement Quantity (Units in Each) | - | - | - | - | - | - |
| Gross/Weapon System Cost (\$ in Millions) | - | 0.000 | 0.000 | 121.634 | - | 121.634 |
| Less PY Advance Procurement (\$ in Millions) | - | - | - | - | - | - |
| Net Procurement (P-1) (\$ in Millions) | - | 0.000 | 0.000 | 121.634 | - | 121.634 |
| Plus CY Advance Procurement (\$ in Millions) | - | - | - | - | - | - |
| Total Obligation Authority (\$ in Millions) | - | 0.000 | 0.000 | 121.634 | - | 121.634 |
| (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) | - | - | - | - | - | - |

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

| Cost Elements | Prior Years |  |  | FY 2022 |  |  | FY 2023 |  |  | FY 2024 Base |  |  | FY 2024 OCO |  |  | FY 2024 Total |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Unit Cost $(\$ M)$ | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | Total Cost <br> (\$ M) | Unit Cost (\$ M) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | Total Cost <br> (\$ M) | Unit Cost (\$ M) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost <br> (\$ M) | Unit Cost (\$ M) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | Total Cost <br> (\$ M) | Unit Cost (\$M) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost <br> (\$ M) | Unit Cost (\$ M) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost <br> (\$ M) |
| rdware - FAB-T FET C |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

## Recurring Cost

| FAB-T Force Element Terminals Production ${ }^{(+)}$ | - | - | - | - | - | 0.000 | - | - | 0.000 | 3.888 | 13 | 50.550 | - | - | - | 3.888 | 13 | 50.550 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Radiation Lot Acceptance Testing ${ }^{(\dagger)}$ | - | - | - | - | - | 0.000 | - | - | 0.000 | 19.714 | 1 | 19.714 | - | - | - | 19.714 | 1 | 19.714 |
| Spares/Repair Parts (Equivalent Sets) ${ }^{(\dagger)}$ | - | - | - | - | - | 0.000 | - | - | 0.000 | 3.817 | 10 | 38.170 | - | - | - | 3.817 | 10 | 38.170 |
| Tech Mission Analysis | - | - | - | - | - | 0.000 | - | - | 0.000 | - | - | 0.500 | - | - | - | - | - | 0.500 |
| Subtotal: Recurring Cost | - | - | - | - | - | 0.000 | - | - | 0.000 | - | - | 108.934 | - | - | - | - | - | 108.934 |
| Subtotal: Hardware - FAB-T FET Cost | - | - | - | - | - | 0.000 | - | - | 0.000 | - | - | 108.934 | - | - | - | - | - | 108.934 |
| Support - FAB-T FET Cost |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| A\&AS | - | - | - | - | - | 0.000 | - | - | 0.000 | - | - | 5.000 | - | - | - | - | - | 5.000 |
| FFRDC | - | - | - | - | - | 0.000 | - | - | 0.000 | - | - | 4.200 | - | - | - | - | - | 4.200 |
| Other Support | - | - | - | - | - | 0.000 | - | - | 0.000 | - | - | 3.500 | - | - | - | - | - | 3.500 |
| Subtotal: Support - FAB-T FET Cost | - | - | - | - | - | 0.000 | - | - | 0.000 | - | - | 12.700 | - | - | - | - | - | 12.700 |
| Gross/Weapon System Cost | - | - | - | - | - | 0.000 | - | - | 0.000 | - | - | 121.634 | - | - | - | - | - | 121.634 |

Remarks:
Specific quantities shown in this exhibit are based on the program office's current best estimate and may vary based on fact-of-life changes within the program.

UNCLASSIFIED

| Exhibit P-5, Cost Analysis: PB 2024 Air Force |  | Date: March 2023 |
| :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3022F / 01 / 10 | P-1 Line Item Number / Title: FET000 / FABT FORCE ELEMENT TERMINAL | Item Number / Title [DODIC]: <br> FABT FORCE ELEMENT TERMINAL |
| ID Code (A=Serice Ready, B=Not Service Ready) : A | MDAP/MAIS Code: |  |

${ }^{\dagger}$ ) indicates the presence of a $\mathrm{P}-5 \mathrm{a}$

UNCLASSIFIED

| Exhibit P-5a, Procurement History and Planning: PB 2024 Air Force |  |  |  |  |  |  |  | Date: March 2023 |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3022F / 01 / 10 |  |  |  | P-1 Line Item Number / Title: <br> FET000 / FABT FORCE ELEMENT TERMINAL |  |  |  | Item Number / Title [DODIC]: <br> FABT FORCE ELEMENT TERMINAL |  |  |  |  |
| Cost Elements | 0 <br> C <br> O | FY | Contractor and Location | Method/Type <br> or <br> Funding Vehicle | Location of PCO | Award Date | Date of First Delivery | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Unit Cost (\$M) | Specs Avail Now? | Date Revision Available | RFP Issue Date |
| FAB-T Force Element Terminals Production |  | 2024 | Raytheon / MA | TBD | Hanscom AFB | Nov 2023 | Nov 2026 | 13 | 3.888 | Y |  |  |
| Radiation Lot Acceptance Testing |  | 2024 | Raytheon / MA | TBD | Hanscom AFB | Jan 2024 | Jan 2025 | 1 | 19.714 | Y |  |  |
| Spares/Repair Parts (Equivalent Sets) |  | 2024 | Raytheon / MA | TBD | Hanscom AFB | Nov 2023 | Nov 2026 | 10 | 3.817 | Y |  |  |

## Remarks:

Specific quantities shown in this exhibit are based on the program office's current best estimate and may vary based on fact-of-life changes within the program.

## THIS PAGE INTENTIONALLY LEFT BLANK

Appropriation / Budget Activity / Budget Sub Activity:
3022F: Procurement, Space Force / BA 01: Space Procurement, SF / BSA 10: Space Programs
ID Code (A=Service Ready, B=Not Service Ready): A
Program Elements for Code B Items: N/A

## P-1 Line Item Number / Title:

GAP000 / Wideband Gapfiller Satellites(Space)

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

| Resource Summary | Prior <br> Years | FY 2022 | FY 2023 | FY 2024 Base | $\begin{gathered} \text { FY } 2024 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \text { FY } 2024 \\ \text { Total } \end{gathered}$ | FY 2025 | FY 2026 | FY 2027 | FY 2028 | To Complete | Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Procurement Quantity (Units in Each) | - | - | 1 | - | - | - | - | - | - | - | - |  |
| Gross/Weapon System Cost (\$ in Millions) | 5.000 | 57.742 | 463.982 | 0.000 | - | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | - | 526.724 |
| Less PY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Net Procurement (P-1) (\$ in Millions) | 5.000 | 57.742 | 463.982 | 0.000 | - | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | - | 526.724 |
| Plus CY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Total Obligation Authority (\$ in Millions) | 5.000 | 57.742 | 463.982 | 0.000 | - | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | - | 526.724 |
| (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) | - | - | 463.982 | - | - | - | - | - | - | - | - | 526.724 |

## Description:






 complete WGS-11 production. This effort also funds $\$ 442 \mathrm{M}$ in FY 2023 for WGS-12 to be protected wideband satellite by developing and hosting a tactical anti-jam payload.



 than the entire existing WGS constellation and deliver twice the mission capacity than WGS-10 can operationally increase the availability of military-grade communications.

 PTS as a hosted payload.


 WGS-11 will host a PTS payload providing robust anti-jam capability to tactical warfighters, funded by the PTS program in PE 1206761 SF.

Exhibit P-40, Budget Line Item Justification: PB 2024 Air Force
Date: March 2023

## Appropriation / Budget Activity / Budget Sub Activity: <br> 3022F: Procurement, Space Force / BA 01: Space Procurement, SF / BSA 10:

 Space ProgramsID Code (A=Service Ready, B=Not Service Ready): A
Program Elements for Code B Items: N/A
Other Related Program Elements: N/A

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




 activities. USSF is pursuing a mix of USSF and International Partner (IP) sources to cover additional funding required by FY 2025 for launch vehicle, ground and other Government costs.





 National Space Policy and improved operational efficiency.


 to develop new or repurpose capabilities.

Funding for this exhibit is contained in PE 1203600SF.

## Justification: <br> No FY 2024 funding requested.

Exhibit P-40, Budget Line Item Justification: PB 2024 Air Force
Date: March 2023

## Appropriation / Budget Activity / Budget Sub Activity:

3022F: Procurement, Space Force / BA 01: Space Procurement, SF / BSA 10: Space Programs
ID Code (A=Service Ready, B=Not Service Ready): B
Program Elements for Code B Items: 1203174SF, 1208736SF $\quad$ Other Related Program Elements: N/A

## P-1 Line Item Number / Title:

GNRLIT / General Information Tech - Space

Line Item MDAP/MAIS Code: N/A

| Resource Summary | Prior Years | FY 2022 | FY 2023 | $\text { FY } 2024$ Base | $\begin{gathered} \text { FY } 2024 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \text { FY } 2024 \\ \text { Total } \end{gathered}$ | FY 2025 | FY 2026 | FY 2027 | FY 2028 | To Complete | Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Procurement Quantity (Units in Each) | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Cost (\$ in Millions) | - | 3.316 | 5.424 | 3.451 | - | 3.451 | 2.584 | 1.835 | 1.885 | 1.924 | - | 20.419 |
| Less PY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Net Procurement (P-1) (\$ in Millions) | - | 3.316 | 5.424 | 3.451 | - | 3.451 | 2.584 | 1.835 | 1.885 | 1.924 | - | 20.419 |
| Plus CY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Total Obligation Authority (\$ in Millions) | - | 3.316 | 5.424 | 3.451 | - | 3.451 | 2.584 | 1.835 | 1.885 | 1.924 | - | 20.419 |
| (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:

Funding for this exhibit is contained in PE 1203173SF, PE 1203174SF, PE 1208736SF, and PE 1208739SF.
PE 1203173SF Research \& Development (R\&D) Space and Missile Operations (RDSMO)






 support RDSMO, which operates one-of-kind R\&D and prototype satellites, transitioning those with military utility directly into warfighter operations.

PE 1203174SF Space Innovation, Integration and Rapid Technology Development


 licenses, etc., to maintain the efficiency and compatibility with all current models.


 execute experimentation, prototyping, risk reduction, and other efforts to develop new or repurpose capabilities.

PE 1208736SF Range and Adversary

## Appropriation / Budget Activity / Budget Sub Activity: <br> 3022F: Procurement, Space Force / BA 01: Space Procurement, SF / BSA 10:

 Space Programs

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





 Global Positioning System Electronic Attack, Satellite Communication EA, Orbital Warfare, and Adversary SATCOM Network.

PE 1208739SF Training and Readiness



 a distributed combat training environment for warfighters around the globe, remotely, without the need to travel to a dedicated training/exercise site.

## Justification:

PE 1203173SF RDSMO: No FY 2024 funding requested.









 train joint and coalition partners in a contested, degraded, operationally-limited space environment.


 operational and tactical levels of war. It can also support limited command and control capabilities for space operations.

Exhibit P-40, Budget Line Item Justification: PB 2024 Air Force
Date: March 2023

## P-1 Line Item Number / Title: <br> GPS03C / GPSIII Follow On

## Appropriation / Budget Activity / Budget Sub Activity:

3022F: Procurement, Space Force / BA 01: Space Procurement, SF / BSA 10: Space Programs

Program Elements for Code B Items: 1203269SF
Other Related Program Elements: 1203269F

| Resource Summary | Prior <br> Years | FY 2022 | FY 2023 | $\text { FY } 2024$ Base | $\begin{gathered} \text { FY } 2024 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \text { FY } 2024 \\ \text { Total } \end{gathered}$ | FY 2025 | FY 2026 | FY 2027 | FY 2028 | To Complete | Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Procurement Quantity (Units in Each) | 2 | 3 | 2 | - | - | - | 2 | 2 | 2 | 2 | 4 | 19 |
| Gross/Weapon System Cost (\$ in Millions) | 573.404 | 835.176 | 616.962 | 119.700 | - | 119.700 | 678.531 | 708.802 | 743.060 | 758.646 | 2,051.461 | 7,085.742 |
| Less PY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Net Procurement (P-1) (\$ in Millions) | 573.404 | 835.176 | 616.962 | 119.700 | - | 119.700 | 678.531 | 708.802 | 743.060 | 758.646 | 2,051.461 | 7,085.742 |
| Plus CY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Total Obligation Authority (\$ in Millions) | 573.404 | 835.176 | 616.962 | 119.700 | - | 119.700 | 678.531 | 708.802 | 743.060 | 758.646 | 2,051.461 | 7,085.742 |
| (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) | 286.702 | 278.392 | 308.481 | - | - | - | 339.266 | 354.401 | 371.530 | 379.323 | 512.865 | 372.934 |

## Description:



 operation of GPS for military and civilian purposes, and 51 USC Sec. 50112 , which requires that GPS complies with certain standards and facilitates international cooperation.





 Mobility; and Space Launch Orbital Support.











| Appropriation / Budget Activity / Budget Sub Activity: |  |
| :--- | :--- |
| 3022F: Procurement, Space Force / BA 01: Space Procurement, SF / BSA 10: |  |
| Space Programs | P-1 Line Item Number / Title: <br> GPS03C / GPSIII Follow On |

ID Code (A=Service Ready, B=Not Service Ready): B
Program Elements for Code B Items: 1203269SF
Other Related Program Elements: 1203269F

## Line Item MDAP/MAIS Code: 590



 annual contract options exercised using Procurement, Space Force funds consistent with full-funding policy under an annual-buy approach.


 reduction, and other efforts to develop new or repurpose capabilities.



 gap in procurement will create the right-sized buy profile to end GPS IIIF SV procurement in FY 2030 as originally planned.

Funding for this exhibit is contained in PE 1203269SF.

*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:

 18 , 19, and 20 were awarded on October 27, 2022. An FY 2024 gap in procurement will create the right-sized buy profile to end GPS IIIF SV procurement in FY 2030 as originally planned.

 Equitable Adjustment (REA) when a SV is not procured each FY. The FY 2024 request includes the anticipated cost of this REA.
 analysis, etc.

## UNCLASSIFIED

Exhibit P-5, Cost Analysis: PB 2024 Air Force

## Appropriation / Budget Activity / Budget Sub Activity

3022F / 01 / 10
ID Code (A=Service Ready, B=Not Service Ready) : B

## P-1 Line Item Number / Title GPS03C / GPSIII Follow On

Date: March 2023
Item Number / Title [DODIC]
GPSIII Follow On

| ID Code (A=Service Rea | B=Not Servi | eady) |  |  |  |  |  | FY 2022 |  | P/MA | ode: |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Resource Summary |  |  |  |  | Prior Years |  |  |  |  | FY 2023 |  | FY 2024 Base |  |  | FY 2024 OCO |  | FY 2024 Total |  |
| Procurement Quantity (Units in Each) |  |  |  |  |  |  | 2 |  | 3 |  | 2 |  |  | - |  | - |  | - |
| Gross/Weapon System Cost (\$ in Millions) |  |  |  |  |  |  | 573.404 |  | 835.176 |  | 616.962 |  |  | 700 |  | - |  | 119.700 |
| Less PY Advance Procurement (\$ in Millions) |  |  |  |  |  |  | - |  | - |  | - |  |  | - |  | - |  | - |
| Net Procurement (P-1) (\$ in Millions) |  |  |  |  |  |  | 573.404 |  | 835.176 |  | 616.962 |  |  | 700 |  | - |  | 119.700 |
| Plus CY Advance Procurement (\$ in Millions) |  |  |  |  |  |  | - |  | - |  | - |  |  | - |  | - |  | - |
| Total Obligation Authority (\$ in Millions) |  |  |  |  |  |  | 573.404 |  | 835.176 |  | 616.962 |  |  | 700 |  | - |  | 119.700 |
| (The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.) |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Initial Spares (\$ in Millions) |  |  |  |  | - ${ }^{\text {a }}$ - |  |  |  | - | - |  | - |  |  |  | - | - |  |
| Gross/Weapon System Unit Cost (\$ in Millions) |  |  |  |  |  |  |  |  | 278.392 |  | 308.481 |  |  | - |  | - |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding. |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | Prior Years |  |  | FY 2022 |  |  | FY 2023 |  |  | FY 2024 Base |  |  | FY 2024 OCO |  |  | FY 2024 Total |  |  |
| Cost Elements | Unit Cost (\$ M) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost <br> (\$ M) | Unit Cost (\$ M) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost (\$ M) | Unit Cost (\$ M) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost (\$ M) | Unit Cost (\$ M) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost (\$ M) | Unit Cost (\$ M) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost <br> (\$ M) | Unit Cost (\$ M) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost <br> (\$ M) |
| Space Vehicle - GPSIII Follow On Cost |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Recurring Cost |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| GPS IIIF ${ }^{(t)}$ | 265.502 | 2 | 531.004 | 257.574 | 3 | 772.724 | 275.423 | 2 | 550.847 | - | - | 72.438 | - |  | - | - | - | 72.438 |
| GPS IIIF Enterprise SE\&I | - | - | - | - | - | 15.486 | - | - | 15.390 | - | - | 14.803 | - |  | - | - | - | 14.803 |
| GPS IIIF Technical Mission Analysis | - | - | 3.290 | - | - | 7.870 | - | - | 5.687 | - | - | 6.213 | - |  | - - | - | - | 6.213 |
| Subtotal: Recurring Cost | - | - | 534.294 | - | - | 796.080 | - | - | 571.924 | - | - | 93.454 | - |  | - | - | - | 93.454 |
| Subtotal: Space Vehicle GPSIII Follow On Cost | - | - | 534.294 | - | - | 796.080 | - | - | 571.924 | - | - | 93.454 | - |  | - - | - | - | 93.454 |
| Support - GPSIIII Follow On Cost |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| GPS IIIF FFRDC | - | - | 9.851 | - | - | 8.517 | - | - | 8.783 | - | - | 3.209 | - |  | - - | - | - | 3.209 |
| GPS IIIF A\&AS | - | - | 29.239 | - | - | 29.672 | - | - | 32.667 | - | - | 19.449 | - |  | - - | - | - | 19.449 |
| GPS IIIF Other Support | - | - | 0.020 | - | - | 0.907 | - | - | 3.588 | - | - | 3.588 | - |  | - - | - | - | 3.588 |
| Subtotal: Support - GPSIII Follow On Cost | . | . | 39.110 | - | - | 39.096 | - | - | 45.038 | - | - | 26.246 | . |  | - - | - | - | 26.246 |
| Gross/Weapon System Cost | 286.702 | 2 | 573.404 | 278.392 | 3 | 835.176 | 308.481 | 2 | 616.962 | - | - | 119.700 | - |  | - | - | - | 119.700 |

$\left.{ }^{( } \dagger\right)$ indicates the presence of a P-5a

UNCLASSIFIED

| Exhibit P-5a, Procurement History and Planning: PB 2024 Air Force |  |  |  |  |  |  |  | Date: March 2023 |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3022F / 01 / 10 |  |  |  | P-1 Line Item Number / Title: GPS03C / GPSIII Follow On |  |  |  | Item Number / Title [DODIC]: GPSIII Follow On |  |  |  |  |
| Cost Elements | 0 <br> c <br> O <br> O | FY | Contractor and Location | Method/Type <br> or <br> Funding Vehicle | Location of PCO | Award Date | Date of First Delivery | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | Unit Cost (\$ M) | Specs Avail Now? | Date Revision Available | RFP Issue Date |
| GPS IIIF |  | 2021 | Lockheed Martin / Littleton, CO | C/FPIF | SSC, LA AFB, CA | Oct 2020 | Oct 2026 | 2 | 277.083 | N | Sep 2020 |  |
| GPS IIIF |  | 2022 | Lockheed Martin / Littleton, CO | C/FPIF | SSC, LA AFB, CA | Oct 2021 | Oct 2027 | 3 | 257.575 | N | Sep 2021 |  |
| GPS IIIF |  | 2023 | Lockheed Martin / Littleton, CO | C/FPIF | SSC, LA AFB, CA | Oct 2022 | Oct 2028 | 2 | 275.423 | N | Sep 2022 |  |

## THIS PAGE INTENTIONALLY LEFT BLANK

Appropriation / Budget Activity / Budget Sub Activity:
3022F: Procurement, Space Force / BA 01: Space Procurement, SF / BSA 10: Space Programs
ID Code (A=Service Ready, B=Not Service Ready): B
Program Elements for Code B Items: 1203265SF
Other Related Program Elements: 1203265F
Line Item MDAP/MAIS Code: 590

| Resource Summary | Prior Years | FY 2022 | FY 2023 | $\text { FY } 2024$ Base | $\begin{gathered} \text { FY } 2024 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \text { FY } 2024 \\ \text { Total } \end{gathered}$ | FY 2025 | FY 2026 | FY 2027 | FY 2028 | To Complete | Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Procurement Quantity (Units in Each) | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Cost (\$ in Millions) | 20.122 | 84.452 | 103.340 | 121.770 | - | 121.770 | 75.491 | 50.078 | 2.809 | 0.000 | 0.000 | 458.062 |
| Less PY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Net Procurement (P-1) (\$ in Millions) | 20.122 | 84.452 | 103.340 | 121.770 | - | 121.770 | 75.491 | 50.078 | 2.809 | 0.000 | 0.000 | 458.062 |
| Plus CY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Total Obligation Authority (\$ in Millions) | 20.122 | 84.452 | 103.340 | 121.770 | - | 121.770 | 75.491 | 50.078 | 2.809 | 0.000 | 0.000 | 458.062 |
| (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 Global Positioning System (GPS) is a space-based navigation system that fills validated Joint Service requirements for worldwide, accurate, common grid three dimensional positioning/navigation for military aircraft, ships, and ground personnel. The consistent accuracy, unaffected by location or weather and available in real time, significantly improves effectiveness of reconnaissance, weapons delivery, mine countermeasures and rapid deployment for all services. GPS must comply with Title 10 United States Code (USC) Sec. 2281, which requires that the Secretary of Defense ensures the continued sustainment and operation of GPS for military and civilian purposes, and 51 USC Sec. 50112 , which requires that GPS complies with certain standards and facilitates international cooperation.

The system is composed of three programs: User Equipment (funded under Program Element (PE) 1203164F, 1203164SF), Space (funded under PE 1203165F, 1203265F, 1203265SF, 1203269F, and 1203269 SF), and a Control Network (funded under PE 1206423F, 1206423SF and 1203165F). The satellites broadcast high accuracy data using precisely synchronized signals that are received and processed by user equipment installed in military platforms. The user equipment computes the platform position and velocity and provides steering vectors to target locations or navigation waypoints. The control segment provides daily updates to the navigation messages broadcast from the satellites to maintain system precision in three dimensions to 16 meters (spherical error probable) worldwide. Additionally, GPS supports the United States Nuclear Detonation Detection System mission and provides strategic and tactical support to the following Department of Defense missions: Joint Operations by providing capabilities for Positioning, Navigation, and Timing (PNT); Command, Control, Communications, and Intelligence; Special Operations; Military Operations in Urban Terrain; Defense-Wide Mission Support; Air Mobility; and Space Launch Orbital Support.

GPS III is the next generation of Space Vehicles (SV) supporting the GPS constellation. GPS III SVs deliver significant enhancements, including a new international civil (L1C) Galileo-compatible signal, and enhanced anti-jam power. GPS III SVs 06-10 are in the Production and Deployment Phase.

The Air Force GPS directorate received USD(AT\&L) approval to purchase GPS III SVs 09-10 at the December 2014 Defense Acquisition Board in order to sustain the constellation while competitive options were pursued. The GPS III SVs $09-10$ purchases are on the current Lockheed Martin contract as technical equivalents of SVs 01-08. SV 09 is funded with FY 2014 Missile Procurement, Air Force (MPAF) advance procurement and FY 2015 MPAF regular procurement. SV 10 is funded with FY 2015 MPAF advance procurement, and FY 2016 Space Procurement, AF regular procurement.

Space acquisition must respond with speed and agility to pacing and emerging adversary threats. Space Systems Command (SSC) has transformed the organization and implementation of space acquisition to an enterprise approach, maximizing innovation and resiliency, leveraging international, commercial, and mission partnerships, and managing program/project priorities according to an integrated unclassified/ classified enterprise space architecture. Expanding the appropriate acquisition authorities and contract mechanisms to deliver capability sooner, SSC will strategically execute experimentation, prototyping, risk reduction, and other efforts to develop new or repurpose capabilities.


| Exhibit P-40, Budget Line Item Justification: PB 2024 Air Force |  |  |  |  |  |  |  | Date: March 2023 |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: <br> 3022F: Procurement, Space Force / BA 01: Space Procurement, SF / BSA 10: Space Programs |  |  |  |  |  | P-1 Line Item Number / Title: GPSIII / GPS III Space Segment |  |  |  |  |
| ID Code (A=Service Ready, B=Not Service Ready): B |  | Program Elements for Code B Items: 1203265SF |  |  |  |  | Other Related Program Elements: 1203265F |  |  |  |
| Line Item MDAP/MAIS Code: 590 |  |  |  |  |  |  |  |  |  |  |
| Exhibits Schedule |  |  |  |  | Prior Years | FY 2022 | FY 2023 | FY 2024 Base | FY 2024 OCO | FY 2024 Total |
|   <br> Exhibit <br> Type Title* |  | Subexhibits | ID <br> CD | 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-5 |  | B |  |  | - 120.122 | - 184.452 | - - /103.340 | - /121.770 | - 1- | - / 121.770 |
| P-40 $\quad$ Total Gross/Weapon System Cost |  |  |  |  | - $/ 20.122$ | - 184.452 | - 1103.340 | - 1121.770 | - 1. | - /121.770 |
| *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 2024 funding will procure independent technical and integration support critical to managing SVs $06-10$. Funding supports SV 06 Operational 365 Days On-Orbit Incentive Milestone and SV 07 Launch, OnOrbit Checkout, Declared Operational On-Orbit Incentive Milestones. Funding also supports SVs $07-10$ storage, mission readiness testing, mission assurance activities, and launch preparation events. Also, supports SV 07 planned ILCs in FY 2024. SVs 08-10 have planned ILCs in FY 2025. |  |  |  |  |  |  |  |  |  |  |
| Rapidly respond to implement resiliency and situational awareness necessary to operate in the contested space domain. Activities may include, but are not limited to program office support, studies, technical analysis, etc. |  |  |  |  |  |  |  |  |  |  |

## UNCLASSIFIED

Exhibit P-5, Cost Analysis: PB 2024 Air Force

## Appropriation / Budget Activity / Budget Sub Activity:

3022F / 01 / 10
ID Code (A=Service Ready, B=Not Service Ready) : B

Date: March 2023
Item Number / Title [DODIC]
GPS III Space Segment

| Resource Summary | Prior Years | FY 2022 | FY 2023 | FY 2024 Base | FY 2024 OCO | FY 2024 Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Procurement Quantity (Units in Each) | - | - | - | - | - | - |
| Gross/Weapon System Cost (\$ in Millions) | 20.122 | 84.452 | 103.340 | 121.770 | - | 121.770 |
| Less PY Advance Procurement (\$ in Millions) | - | - | - | - | - | - |
| Net Procurement (P-1) (\$ in Millions) | 20.122 | 84.452 | 103.340 | 121.770 | - | 121.770 |
| Plus CY Advance Procurement (\$ in Millions) | - | - | - | - | - | - |
| Total Obligation Authority (\$ in Millions) | 20.122 | 84.452 | 103.340 | 121.770 | - | 121.770 |
| (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) | - | - | - | - | - | - |

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

|  | Prior Years |  |  | FY 2022 |  |  | FY 2023 |  |  | FY 2024 Base |  |  | FY 2024 OCO |  |  | FY 2024 Total |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Cost Elements | Unit Cost (\$ M) | Qty | Total Cost <br> (\$ M) | Unit Cost (\$ M) | Qty | Total Cost <br> (\$ M) | Unit Cost $(\$ M)$ | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost <br> (\$ M) | Unit Cost (\$ M) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost <br> (\$ M) | Unit Cost $(\$ M)$ | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost <br> (\$ M) | Unit Cost (\$ M) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | Total Cost <br> (\$ M) |

## Space Vehicle - GPS III Space Segment Cos

| Recurring Cost |  |  |  |  |  |  |
| :---: | ---: | ---: | ---: | ---: | ---: | ---: |
| GPS III SV03-10 | - | - | 2.650 | - | - | - |
| GPS III SV03-10 <br> Enterprise SE\&I | - | - | 0.000 | - | - |  |
| GPS III SV03-10 <br> Technical Mission <br> Analysis | - | - | 3.283 | - | - |  |
| Subtotal: Recurring Cost | - | - | 5.933 | - | - |  |
| Subtotal: Space Vehicle - <br> GPS III Space Segment <br> Cost | - | - | 5.933 | - | - |  |

Checkout and Launch - GPS III Space Segment Cos

| GPS III SV03-10 Launch Services | - | - | 0.130 | - | - | 18.025 | - | - | 79.118 | - | - | 30.884 | - | - | - | - | - | 30.884 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| GPS III SV03-10 OnOrbit/Mission Success Incentive | - | - | 6.786 | - | - | 8.769 | - | - | 2.821 | - | - | 15.000 | - | - | - | - | - | 15.000 |
| GPS III SV03-10 Storage and MRT | - | - | 0.300 | - | - | 15.677 | - | - | 0.000 | - | - | 13.700 | - | - | - | - | - | 13.700 |
| Subtotal: Checkout and <br> Launch - GPS III Space <br> Segment Cost | - | - | 7.216 | - | - | 42.471 | - | - | 81.939 | - | - | 59.584 | - | - | - | - | - | 59.584 |

Support - GPS III Space Segment Cost

| GPS III SV 03-10 FFRDC | - | - | 2.915 | - | - | 3.635 |
| :---: | :---: | :---: | :---: | :---: | :---: | ---: |
| GPS III SV 03-10 A\&AS | - | - | 3.818 | - | - | 8.308 |


| .716 |
| :--- | :--- |

UNCLASSIFIED

| Exhibit P-5, Cost Analysis: PB 2024 Air Force |  |  |  |  |  |  |  |  |  |  |  |  |  | Date: March 2023 |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3022F / 01 / 10 |  |  |  |  |  | P-1 Line Item Number / Title: GPSIII / GPS III Space Segment |  |  |  |  |  |  |  | Item Number / Title [DODIC]: GPS III Space Segment |  |  |  |  |
| ID Code (A=Service Ready, $\mathrm{B}=$ Not Service Ready) : B |  |  |  |  |  |  |  |  |  | MDAP/MAIS Code: |  |  |  |  |  |  |  |  |
| Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding. |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | Prior Years |  |  | FY 2022 |  |  | FY 2023 |  |  | FY 2024 Base |  |  | FY 2024 OCO |  |  | FY 2024 Total |  |  |
| Cost Elements | Unit Cost (\$ M) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost <br> (\$ M) | Unit Cost (\$ M) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | Total Cost <br> (\$ M) | Unit Cost (\$ M) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | Total Cost <br> (\$ M) | Unit Cost (\$ M) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | Total Cost <br> (\$ M) | Unit Cost (\$ M) | $\begin{gathered} \text { Qty } \\ (\text { Each }) \end{gathered}$ | Total Cost (\$ M) | Unit Cost (\$ M) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | Total Cost <br> (\$ M) |
| GPS III SV 03-10 Other Support | - | - | 0.240 | - | - | 0.240 | - | . | 0.240 | - | - | 0.450 | - | . | . | - | - | 0.450 |
| Subtotal: Support - GPS III Space Segment Cost | - | - | 6.973 | - | - | 12.183 | - | - | 11.063 | - | - | 8.531 | - | - | - | - | - | 8.531 |
| Gross/Weapon System Cost | - | - | 20.122 | - | - | 84.452 | - | - | 103.340 | - | - | 121.770 | - | - | - | - | - | 121.770 |

## THIS PAGE INTENTIONALLY LEFT BLANK

Appropriation / Budget Activity / Budget Sub Activity:
3022F: Procurement, Space Force / BA 01: Space Procurement, SF / BSA 10: Space Programs
ID Code (A=Service Ready, B=Not Service Ready): A
Program Elements for Code B Items: N/A

## P-1 Line Item Number / Title:

GPSSPC / Global Postioning (Space)

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

| Resource Summary | Prior <br> Years | FY 2022 | FY 2023 | FY 2024 Base | $\begin{gathered} \text { FY } 2024 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \text { FY } 2024 \\ \text { Total } \end{gathered}$ | FY 2025 | FY 2026 | FY 2027 | FY 2028 | To Complete | Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Procurement Quantity (Units in Each) | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Cost (\$ in Millions) | 2.256 | 2.274 | 0.950 | 0.893 | - | 0.893 | 0.833 | 0.881 | 0.833 | 0.851 | - | 9.771 |
| Less PY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Net Procurement (P-1) (\$ in Millions) | 2.256 | 2.274 | 0.950 | 0.893 | - | 0.893 | 0.833 | 0.881 | 0.833 | 0.851 | - | 9.771 |
| Plus CY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Total Obligation Authority (\$ in Millions) | 2.256 | 2.274 | 0.950 | 0.893 | - | 0.893 | 0.833 | 0.881 | 0.833 | 0.851 | - | 9.771 |
| (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:




 support various GPS specific production efforts associated with the ground control and user equipment segments.
 Module (SAASM) to provide accurate positioning solutions for GPS users using secure equipment. Similar work for the Military GPS User Equipment (MGUE) is in the planning phase.


 reduction, and other efforts to develop new or repurpose capabilities.

Funding for this exhibit is contained in 1203164SF.

## Justification:


 uninterrupted support to SAASM developers. SAASM developers are required to integrate the government-provided KDP as part of the SAASM security architecture of GPS User Equipment.
 technical analysis, etc.

## THIS PAGE INTENTIONALLY LEFT BLANK

Exhibit P-40, Budget Line Item Justification: PB 2024 Air Force
Appropriation / Budget Activity / Budget Sub Activity:
3022F: Procurement, Space Force / BA 01: Space Procurement, SF / BSA 10: Space Programs
ID Code (A=Service Ready, B=Not Service Ready): B
Program Elements for Code B Items: 1203605SF

## \section*{P-1 Line Item Number / Title:} <br> HRTG00 / HERITAGE TRANSITION

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

| Resource Summary | Prior <br> Years | FY 2022 | FY 2023 | $\text { FY } 2024$ Base | $\begin{gathered} \text { FY } 2024 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \text { FY } 2024 \\ \text { Total } \end{gathered}$ | FY 2025 | FY 2026 | FY 2027 | FY 2028 | To Complete | Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Procurement Quantity (Units in Each) | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Cost (\$ in Millions) | - | 13.529 | 21.896 | 6.110 | - | 6.110 | 13.314 | 10.186 | 8.996 | 9.184 | - | 83.215 |
| Less PY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Net Procurement (P-1) (\$ in Millions) | - | 13.529 | 21.896 | 6.110 | - | 6.110 | 13.314 | 10.186 | 8.996 | 9.184 | - | 83.215 |
| Plus CY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Total Obligation Authority (\$ in Millions) | - | 13.529 | 21.896 | 6.110 | - | 6.110 | 13.314 | 10.186 | 8.996 | 9.184 | - | 83.215 |
| (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:










 1206770SF / Enterprise Ground Services will fund efforts to provide the foundational EGS cyber-secure platform and applications enabling HRTG capability migration.


 reduction, and other efforts to develop new or re-purpose existing capabilities.
 cybersecurity. The FY 2024 funding request was reduced by $\$ 10.823 \mathrm{M}$ to account for the availability of prior year execution balances.

Funding for this exhibit is contained in PE 1203605SF.

Appropriation / Budget Activity / Budget Sub Activity:
3022F: Procurement, Space Force / BA 01: Space Procurement, SF / BSA 10: Space Programs
ID Code (A=Service Ready, B=Not Service Ready): B
Program Elements for Code B Items: 1203605SF
Line Item MDAP/MAIS Code: N/A

| Exhibits Schedule |  |  |  |  | Prior Years | FY 2022 | FY 2023 | FY 2024 Base | FY 2024 OCO | FY 2024 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 / Heritage Transition (Capability Improvement) |  | B |  | - 1- | - /13.529 | - 121.896 | - 16.110 | - 10.000 | - 16.110 |
| P-40 | Total Gross/Weapon System Cost |  |  |  | - 1 - | - /13.529 | - 121.896 | - 16.110 | - 1 - | 16.110 |
| Exhibits Schedule |  |  |  |  | FY 2025 | FY 2026 | FY 2027 | FY 2028 | To Complete | 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 | 1 / Heritage Transition (Capability Improvement) |  | B |  | - /13.314 | - / 10.186 | - 18.996 | - 19.184 | - 1 | - 183.215 |
| P-40 | Total Gross/Weapon System Cost |  |  |  | - / 13.314 | - /10.186 | - 18.996 | - 19.184 | 1 - | - 183.215 |

*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:






 and the associated control systems.







 associated HRTG effort is anticipated to be on contract 31 May 2024.
 limited to program office support, studies, technical analysis, etc.

Exhibit P-3a, Individual Modification: PB 2024 Air Force

| Appropriation / Budget Activit 3022F / 01 / 10 | Budget | Activity | P-1 Line Item Number / Title: HRTG00 / HERITAGE TRANSITION |  |  |  |  |  | Modification Number / Title: <br> 1 / Heritage Transition |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| ID Code (A=Service Ready, B=Not Service Ready) : B |  |  |  |  |  | MDAP/MAIS Code: |  |  |  |  |  |  |
| Resource Summary | Prior Years | FY 2022 | FY 2023 | FY 2024 Base | $\begin{gathered} \text { FY } 2024 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \text { FY } 2024 \\ \text { Total } \end{gathered}$ | FY 2025 | FY 2026 | FY 2027 | FY 2028 | To Complete | Total |
| Procurement Quantity (Units in Each) | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Cost (\$ in Millions) | - | 13.529 | 21.896 | 6.110 | 0.000 | 6.110 | 13.314 | 10.186 | 8.996 | 9.184 | - | 83.215 |
| Less PY Advance Procurement (\$ in Millions) |  | - | - | - | - | - | - | - | - | - | - | - |
| Net Procurement (P-1) (\$ in Millions) | - | 13.529 | 21.896 | 6.110 | 0.000 | 6.110 | 13.314 | 10.186 | 8.996 | 9.184 | - | 83.215 |
| Plus CY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Total Obligation Authority (\$ in Millions) | - | 13.529 | 21.896 | 6.110 | 0.000 | 6.110 | 13.314 | 10.186 | 8.996 | 9.184 | - | 83.215 |
| (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:

CCS-C provides SCN based C2 for the MILSATCOM constellations including Milstar, AEHF, WGS, and DSCS. EGS is a cloud enabled, service based, common ground architecture providing a foundation for satellite C 2 programs to operate in. One of the benefits of using a common ground architecture for all satellite C 2 functions is improved access to data for a COP and increasing space domain awareness.

Transitioning CCS-C to a modern architecture will provide 26 satellites from four constellations into a COP for space warfighters, improve agility of capability delivery through modernized architectures, increase cyber resiliency via integrated cyber defense systems, and reduce operator training by leveraging shared and common interfaces and underlying operations principles. Ongoing efforts include implementing software change orders to modify CCS-C foundational capabilities and mission unique software for the transition to an enterprise platform, transition telemetry tracking and commanding (TT\&C) core functions to enterprise message bus communication, and replacing some components with enterprise provided services. CCS-C components include, but are not limited to, support for spacecraft dynamics, simulation, mission scheduling, data libraries and data analytics. Software and hardware modification deliveries for the operational CCS-C system will be required as needed to ensure compatibility with the USSF mandated transition to EGS without impacts to ongoing satellite operations. HRTG will implement system resiliency and situational awareness necessary to operate in the contested domain. Activities may include, but are not limited to, program office support, studies, technical analysis, prototyping, non-recurring engineering, installation, technical documentation, security, quality assurance, etc. Other modifications may include required procurement, non-recurring engineering, installation, configuration management, security, quality assurance and technical documentation. Future year defense program funds will complete this transition and conduct operations transition activities.

An initial HRTG effort, which includes EGS integration activities, is an Engineering Change Proposal (ECP) on the current CCS-C Operations and Sustainment (O\&S) contract. This EGS integration ECP RFP was awarded 4 Jan 2023. Future HRTG activities will be part of a Task Order under the CCS-C Sustainment and Resiliency (C-SAR) contract. C-SAR is the follow-on to the current CCS-C O\&S contract. The CCS-C program office plans to release the RFP for HRTG related work under C-SAR on 1 Dec 2023 with an anticipated PoP start of 31 May 2024. This task order will be incrementally funded until the HRTG mandated transition is complete by 2028. The current performance work statement (PWS) is written to emphasize agile software deliveries in a 12 -month cycle. Software delivery dates will be more defined once Contract Data Requirement Lists (CDRLs) are agreed upon. SSC will provide EGS standards to mission programs to facilitate utilizing pre-existing hosted applications on EGS platform to the maximum extent. The C-SAR contract is postured to support the need to develop and add software applications for employment onto EGS if there are no current applications to fit mission needs.

Milestone/Development Status
This effort is an operational modification to the existing CCS-C system that is currently in operations and sustainment. The modification leverages a five-year study completed in FY 2021 to inform the fastest most cost-effective way to migrate CCS-C C2 capabilities in order to be compatible with the EGS environment.

## UNCLASSIFIED



UNCLASSIFIED


## THIS PAGE INTENTIONALLY LEFT BLANK

Exhibit P-40, Budget Line Item Justification: PB 2024 Air Force
Date: March 2023

## Appropriation / Budget Activity / Budget Sub Activity:

3022F: Procurement, Space Force / BA 01: Space Procurement, SF / BSA 10: Space Programs


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

| Resource Summary | Prior <br> Years | FY 2022 | FY 2023 | $\begin{gathered} \text { FY } 2024 \\ \text { Base } \end{gathered}$ | $\begin{gathered} \text { FY } 2024 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \text { FY } 2024 \\ \text { Total } \end{gathered}$ | FY 2025 | FY 2026 | FY 2027 | FY 2028 | To Complete | Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Procurement Quantity (Units in Each) | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Cost (\$ in Millions) | - | 0.000 | 0.000 | 0.580 | - | 0.580 | 0.000 | 0.000 | 0.000 | 0.000 | - | 0.580 |
| Less PY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Net Procurement (P-1) (\$ in Millions) | - | 0.000 | 0.000 | 0.580 | - | 0.580 | 0.000 | 0.000 | 0.000 | 0.000 | - | 0.580 |
| Plus CY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Total Obligation Authority (\$ in Millions) | - | 0.000 | 0.000 | 0.580 | - | 0.580 | 0.000 | 0.000 | 0.000 | 0.000 | - | 0.580 |
| (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:







 supporting all Theater Missile Defense pillars, affording the shortest sensor-to-shooter connectivity.

## Justification:

This program is a new start.
JTAGS is transitioning to US Space Force in Fiscal Year 2024 (FY2024).
FY2024 Base Funding in the amount of 0.576 million funds the JTAGS Block 2 Phase 2 Spiral 3 fielding efforts.
Funding increase from FY2023 to FY2024 is the result of the transfer of JTAGS from the Army to the Space Force.
 defense missions, domestic emergency responses, and providing military support to civil authorities.

## THIS PAGE INTENTIONALLY LEFT BLANK

Appropriation / Budget Activity / Budget Sub Activity:
3022F: Procurement, Space Force / BA 01: Space Procurement, SF / BSA 10: Space Programs
ID Code (A=Service Ready, B=Not Service Ready): A
Program Elements for Code B Items: N/A

## P-1 Line Item Number / Title:

MCOMSE / Spaceborne Equip (Comsec)

Line Item MDAP/MAIS Code: N/A

| Resource Summary | Prior <br> Years | FY 2022 | FY 2023 | FY 2024 Base | $\begin{gathered} \text { FY } 2024 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \text { FY } 2024 \\ \text { Total } \end{gathered}$ | FY 2025 | FY 2026 | FY 2027 | FY 2028 | To Complete | Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Procurement Quantity (Units in Each) | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Cost (\$ in Millions) | - | 46.945 | 29.587 | 83.168 | - | 83.168 | 83.686 | 84.478 | 87.336 | 90.036 | - | 505.236 |
| Less PY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Net Procurement (P-1) (\$ in Millions) | - | 46.945 | 29.587 | 83.168 | - | 83.168 | 83.686 | 84.478 | 87.336 | 90.036 | - | 505.236 |
| Plus CY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Total Obligation Authority (\$ in Millions) | - | 46.945 | 29.587 | 83.168 | - | 83.168 | 83.686 | 84.478 | 87.336 | 90.036 | - | 505.236 |
| (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:
















 are scalable, upgradeable, and reconfigurable.

Funding for this exhibit contained in program element (PE) 1203140F.

Exhibit P-40, Budget Line Item Justification: PB 2024 Air Force

Appropriation / Budget Activity / Budget Sub Activity:
3022F: Procurement, Space Force / BA 01: Space Procurement, SF / BSA 10: Space Programs
ID Code (A=Service Ready, B=Not Service Ready): A
Program Elements for Code B Items: N/A
P-1 Line Item Number / Title:
MCOMSE / Spaceborne Equip (Comsec)

Line Item MDAP/MAIS Code: N/A

| Exhibits Schedule |  |  |  |  | Prior Years | FY 2022 | FY 2023 | FY 2024 Base | FY 2024 OCO | FY 2024 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-5 | Spaceborne Equip (Comsec) | P-5a | A |  | - 1 - | - /46.945 | - 129.587 | - 183.168 | - 1 | 183.168 |
| P-40 | Total Gross/Weapon System Cost |  |  |  | 1 | - 146.945 | - 129.587 | - 183.168 | 1 - | - 183.168 |

*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:







 support elements.




 operational capability.


 COMSEC.



 Department of the Air Force (DAF) priority to fully fund Space COMSEC.




capabilities. No FY24 funding requested.

## UNCLASSIFIED

Exhibit P-5, Cost Analysis: PB 2024 Air Force

## Appropriation / Budget Activity / Budget Sub Activity:

 3022F / 01 / 10ID Code (A=Service Ready, B=Not Service Ready) : A

Date: March 2023
Item Number / Title [DODIC]:
Spaceborne Equip (Comsec)

| MDAP/MAIS Code: |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Resource Summary | Prior Years | FY 2022 | FY 2023 | FY 2024 Base | FY 2024 OCO | FY 2024 Total |
| Procurement Quantity (Units in Each) | - | - | - | - | - | - |
| Gross/Weapon System Cost (\$ in Millions) | - | 46.945 | 29.587 | 83.168 | - | 83.168 |
| Less PY Advance Procurement (\$ in Millions) | - | - | - | - | - | - |
| Net Procurement (P-1) (\$ in Millions) | - | 46.945 | 29.587 | 83.168 | - | 83.168 |
| Plus CY Advance Procurement (\$ in Millions) | - | - | - | - | - | - |
| Total Obligation Authority (\$ in Millions) | - | 46.945 | 29.587 | 83.168 | - | 83.168 |
| (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) | - | - | - | - | - | - |

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding

|  | Prior Years |  |  | FY 2022 |  |  | FY 2023 |  |  | FY 2024 Base |  |  | FY 2024 OCO |  |  | FY 2024 Total |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Cost Elements | Unit Cost (\$ M) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost <br> (\$ M) | Unit Cost (\$ M) | $\underset{(\text { Each }}{\text { Qty }}$ | Total Cost <br> (\$ M) | Unit Cost (\$ M) | $\underset{(\text { (Each) }}{\text { Qty }}$ | Total Cost <br> (\$ M) | Unit Cost (\$ M) | $\underset{(\text { Each }}{\text { Qty }}$ | Total Cost <br> (\$ M) | Unit Cost (\$ M) | $\underset{\text { (Each) }}{\text { Qty }}$ | Total Cost (\$ M) | Unit Cost (\$ M) | $\underset{\text { (Each) }}{\text { Qty }}$ | Total Cost <br> (\$ M) |
| Hardware -1. Space Communications Security (COMSEC) (PE 1203140F) Cost |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Recurring Cost |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| a. Logistics | - | - | - | 2.047 | 4 | 8.189 | 1.065 | 3 | 3.195 | 2.000 | 4 | 8.000 | - | - | - | 2.000 | 4 | 8.000 |
| b. AVE ${ }^{(+)}$ | - | - | - | 0.256 | 20 | 5.110 | 0.468 | 26 | 12.160 | 0.345 | 111 | 38.345 | - | - | - | 0.345 | 111 | 38.345 |
| c. $\mathrm{GOE}^{(t)}$ | - | - | - | 0.063 | 195 | 12.305 | 0.056 | 169 | 9.432 | 0.060 | 611 | 36.823 | - | - | - | 0.060 | 611 | 36.823 |
| Subtotal: Recurring Cost | - | - | - | - | - | 25.604 | - | - | 24.787 | - | - | 83.168 | - | - | - | - | - | 83.168 |
| Subtotal: Hardware - 1. Space Communications Security (COMSEC) (PE 1203140F) Cost | - | - | - | - | - | 25.604 | - | - | 24.787 | - | - | 83.168 | - | - | - | - | - | 83.168 |

Hardware - 2. Space Modular Common Crypto (SMCC) (PE 1203140F) Cost
Recurring Cost
SMCC
Subtotal: Recurring Cost
Subtotal: Hardware - 2.
Subtotal: Hardware - 2. Crypto (SMCC) (PE
1203140F) Cost
Gross/Weapon System

| - | - | - | 1.123 | 19 | 21.341 |
| ---: | ---: | ---: | ---: | ---: | ---: |
| - | - | - | - | - | 21.341 |
| - | - | - | - | - | 21.341 |
| - | - | - | - | - | 46.945 |


| 1 | 1.200 | 4 |  |
| :---: | ---: | ---: | ---: |
| 1 | - | - |  |
|  | - | - |  |
|  | - | - |  |


| 4 | 4.800 | - | - | - | - |
| ---: | ---: | ---: | ---: | ---: | ---: |
|  | 4.800 | - | - | - | - |
|  | 4.800 | - | - | - | - |


| - | - | - | - |
| :---: | :---: | :---: | :---: |
| - | - | - | - |
| - | - | - | - |
| - | - | - | 83.168 |

Remarks:
Space COMSEC equipment is an aggregation of various units at various prices. Average Unit Cost is used

UNCLASSIFIED

| Exhibit P-5, Cost Analysis: PB 2024 Air Force |  | Date: March 2023 |
| :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3022F / 01 / 10 | P-1 Line Item Number / Title: <br> MCOMSE I Spaceborne Equip (Comsec) | Item Number / Title [DODIC]: <br> Spaceborne Equip (Comsec) |
| ID Code (A=Service Ready, $\mathrm{B}=$ Not Service Ready) : A |  | MDAP/MAIS Code: |

${ }^{(\dagger)}$ indicates the presence of a P-5a

UNCLASSIFIED

| Exhibit P-5a, Procurement History and Planning: PB 2024 Air Force |  |  |  |  |  |  |  | Date: March 2023 |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity:$3022 F / 01 / 10$ |  |  |  | P-1 Line Item Number / Title: <br> MCOMSE / Spaceborne Equip (Comsec) |  |  |  | Item Number / Title [DODIC]: <br> Spaceborne Equip (Comsec) |  |  |  |  |
| Cost Elements | O <br> c <br> O | FY | Contractor and Location | Method/Type <br> or <br> Funding Vehicle | Location of PCO | Award Date | Date of First | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Unit Cost (\$M) | Specs Avail Now? | Date Revision Available | RFP Issue Date |
| b. AVE |  | 2022 | MULTIPLE / MULTIPLE | Various | AFMC | Jun 2022 | Aug 2023 | 20 | 0.256 | Y |  |  |
| b. AVE |  | 2023 | MULTIPLE / MULTIPLE | Various | AFMC | Jun 2023 | Aug 2024 | 26 | 0.468 | Y |  |  |
| b. AVE |  | 2024 | MULTIPLE / MULTIPLE | Various | AFMC | Jun 2024 | Aug 2025 | 111 | 0.345 | Y |  |  |
| c. GOE |  | 2022 | MULTIPLE / MULTIPLE | Various | AFMC | Feb 2022 | May 2023 | 195 | 0.063 | Y |  |  |
| c. GOE |  | 2023 | MULTIPLE / MULTIPLE | Various | AFMC | May 2023 | Jul 2024 | 169 | 0.056 | Y |  |  |
| c. GOE |  | 2024 | MULTIPLE / MULTIPLE | Various | AFMC | Jul 2024 | Aug 2025 | 611 | 0.060 | Y |  |  |

Exhibit P-40, Budget Line Item Justification: PB 2024 Air Force
Date: March 2023

## Appropriation / Budget Activity / Budget Sub Activity:

3022F: Procurement, Space Force / BA 01: Space Procurement, SF / BSA 10: Space Programs

Program Elements for Code B Items: N/A
Other Related Program Elements: N/A
Line Item MDAP/MAIS Code: N/A

| Resource Summary | Prior Years | FY 2022 | FY 2023 | $\text { FY } 2024$ Base | $\begin{gathered} \text { FY } 2024 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \text { FY } 2024 \\ \text { Total } \end{gathered}$ | FY 2025 | FY 2026 | FY 2027 | FY 2028 | To Complete | Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Procurement Quantity (Units in Each) | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Cost (\$ in Millions) | 26.638 | 24.333 | 29.333 | 44.672 | - | 44.672 | 25.561 | 17.161 | 17.594 | 17.963 | - | 203.255 |
| Less PY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Net Procurement (P-1) (\$ in Millions) | 26.638 | 24.333 | 29.333 | 44.672 | - | 44.672 | 25.561 | 17.161 | 17.594 | 17.963 | - | 203.255 |
| Plus CY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Total Obligation Authority (\$ in Millions) | 26.638 | 24.333 | 29.333 | 44.672 | - | 44.672 | 25.561 | 17.161 | 17.594 | 17.963 | - | 203.255 |
| (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:


 unified and specified commanders, uniformed services and defense agencies. To enable this support, this program funds the three efforts.


 The United States Space Force (USSF) is responsible for terminal equipment at Space Force operated and maintained Enterprise ground terminal locations.





 limitations. Full procurement and fielding of the protected modems will begin in FY 2024.




 industry standard interfaces and is operator configurable to the different antenna sizes currently in operation.

## Exhibit P-40, Budget Line Item Justification: PB 2024 Air Force

## Appropriation / Budget Activity / Budget Sub Activity: <br> 3022F: Procurement, Space Force / BA 01: Space Procurement, SF I BSA 10:

## P-1 Line Item Number / Title:

MILSAT / MILSATCOM

## Space Programs

ID Code (A=Service Ready, B=Not Service Ready):
Program Elements for Code B Items: N/A
Other Related Program Elements: N/A

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






 Delivery (IDIQ) contract enables future fielding for additional SATCOM users.


 develop new or repurpose capabilities.

Funding for this exhibit is contained in Program Element (PE) 1203601SF MILSATCOM TERMINALS.

Exhibit P-40, Budget Line Item Justification: PB 2024 Air Force

## Appropriation / Budget Activity / Budget Sub Activity: <br> 3022F: Procurement, Space Force / BA 01: Space Procurement, SF I BSA 10:

 Space ProgramsID Code (A=Service Ready, B=Not Service Ready): $\quad$ Program Elements for Code B Items: N/A $\quad$ Other Related Program Elements: N/A

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

| Exhibits Schedule |  |  |  |  | Prior Years | FY 2022 | FY 2023 | FY 2024 Base | FY 2024 OCO | FY 2024 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-5 | AFWET |  | A |  | - 122.120 | - /10.406 | - /11.995 | - 120.969 | - 1 - | - 120.969 |
| P-5 | GBS |  | A |  | - 10.000 | - 10.494 | - 10.000 | - 17.068 | - 1 | - 17.068 |
| P-5 | PTW Modems |  | B |  | - 14.518 | - /13.433 | - /17.338 | - / 16.635 | - 1 - | - /16.635 |
| P-40 | Total Gross/Weapon System Cost |  |  |  | - 126.638 | - 124.333 | - 129.333 | - 144.672 | - 1 - | - $/ 44.672$ |

*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:

AFWET: In FY 2024, funding will extend the life of the system, modernize operational suitability, safety and effectiveness, and maintain high interoperability with other DoD, Army, Navy, and Air Force strategic and tactical terminals to include mobile capability.

AFWET Terminal Modernization includes engineering, site preparation, terminal and radome installation, integration, acceptance testing and funding initial spares. Install and commission the final 6 of 27 terminals to complete AFWET Terminal Modernization (June 2023). Operational acceptance of the 27 th MET will be the declaration of Full Operational Capability (FOC).

AFWET Maintenance Upgrades and Sustainment includes: Facility Infrastructure Monitoring Systems (FIMS), power and communication infrastructure, Interconnect Facility (ICF) installations which provide incidental increases in capability, allowing for full utilization of WGS capabilities, compliance with directives on the usage of Internet Protocol, adherence to Unified Capabilities Requirements, compliance with Defense Information Systems Agency (DISA) and National Security Agency directives and more efficient and effective usage of satellite resources for jam-resistant and anti-scintillation wideband links. 21 of the 27 installed and commissioned terminals.

AFWET Product Support includes: SATCOM Modernization Services (SMS) skillsets required for specialized SATCOM fielding and training supporting Terminal Modernization.
AFWET Other Support includes: Advisory and Assistance Services (A\&AS), system engineering, and other related activities supporting successful program execution.
Rapidly respond to implement system resiliency and situational awareness necessary to operate in the contested space domain. Activities may include, but are not limited to program office support, studies, technical analysis, etc.

GBS: FY 2024 funding will procure the initial quantity of A3M modems for USAF and USSF users of the GBS. The A3M enables GBS Receive Suites used by U.S. warfighters to continue receiving high-volume, real time intelligence products (e.g., high definition full motion video drone feeds) in contested environments. The A3M also ensures NSA and ORD requirements for TRANSEC are met. Full procurement of remaining A3M will occur from FY 2025 through FY 2028

Rapidly respond to implement system resiliency and situational awareness necessary to operate in the contested space domain. Activities may include, but are not limited to program office support, studies, technical analysis, etc.

A3M: FY 2024 effort includes purchase of PTW capable modems, fielding and installing PTW Modems into multiple types of tactical terminals, and distribution of the modems to the needs of GMT USSF users and USAF users.


## technical analysis, etc.

## UNCLASSIFIED

Exhibit P-5, Cost Analysis: PB 2024 Air Force
 3022F / 01 / 10
ID Code (A=Service Ready, B=Not Service Ready) : A

## P-1 Line Item Number / Title: MILSAT / MILSATCOM

Date: March 2023
Item Number / Title [DODIC]:
AFWET

| MDAP/MAIS Code: |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Resource Summary | Prior Years | FY 2022 | FY 2023 | FY 2024 Base | FY 2024 OCO | FY 2024 Total |
| Procurement Quantity (Units in Each) | - | - | - | - | - | - |
| Gross/Weapon System Cost (\$ in Millions) | 22.120 | 10.406 | 11.995 | 20.969 | - | 20.969 |
| Less PY Advance Procurement (\$ in Millions) | - | - | - | - | - | - |
| Net Procurement (P-1) (\$ in Millions) | 22.120 | 10.406 | 11.995 | 20.969 | - | 20.969 |
| Plus CY Advance Procurement (\$ in Millions) | - | - | - | - | - | - |
| Total Obligation Authority (\$ in Millions) | 22.120 | 10.406 | 11.995 | 20.969 | - | 20.969 |
| (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) | - | - | - | - | - | - |

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

|  | Prior Years |  |  | FY 2022 |  |  | FY 2023 |  |  | FY 2024 Base |  |  | FY 2024 OCO |  |  | FY 2024 Total |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Cost Elements | Unit Cost (\$ M) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost <br> (\$ M) | Unit Cost (\$ M) | Qty (Each) | Total Cost <br> (\$ M) | Unit Cost (\$ M) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost <br> (\$ M) | Unit Cost (\$ M) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | Total Cost <br> (\$ M) | Unit Cost (\$ M) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost <br> (\$ M) | Unit Cost (\$ M) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost <br> (\$ M) |

## Hardware - AFWET Cost



| Terminal Modernization | - | - | 7.029 | - | - | 3.200 | - | - | 2.774 | - | - | - | - | - | - | - | - | - |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Instal//Deinstall | - | - | - | - | - | - | - | - | - | - | - | 4.703 | - | - | - | - | - | 4.703 |
| Engineering/ Integration (E\&I) | - | - | - | - | - | - | - | - | - | - | - | 1.283 | - | - | - | - | - | 1.283 |
| Post Modernization of Enterprise Terminals (MET) Equipment | - | - | 10.843 | - | - | - | - | - | - | - | - | 10.980 | - | - | - | - | - | 10.980 |
| Maintenance Upgrade/ Sustainment | - | - | 1.311 | - | - | - | - | - | 4.492 | - | - | - | - | - | - | - | - | - |
| Product Support | - | - | 1.368 | - | - | 5.600 | - | - | 2.594 | - | - | - | - | - | - | - | - | - |
| Subtotal: Recurring Cost | - | - | 20.551 | - | - | 8.800 | - | - | 9.860 | - | - | 16.966 | - | - | - | - | - | 16.966 |
| Subtotal: Hardware - <br> AFWET Cost | - | - | 20.551 | - | - | 8.800 | - | - | 9.860 | - | - | 16.966 | - | - | - | - | - | 16.966 |
| Support - AFWET Cost |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Advisory and Assistance Services (A\&AS) | - | - | 0.736 | - | - | 0.606 | - | - | 0.733 | - | - | 0.989 | - | - | - | - | - | 0.989 |
| SATCOM Modernization Services (SMS) | - | - | - | - | - | - | - | - | - | - | - | 2.124 | - | - | - | - | - | 2.124 |
| Other Government Costs | - | - | 0.833 | - | - | 1.000 | - | - | 1.402 | - | - | 0.890 | - | - | - | - | - | 0.890 |
| Subtotal: Support - AFWET Cost | - | - | 1.569 | - | - | 1.606 | - | - | 2.135 | - | - | 4.003 | - | - | - | - | - | 4.003 |

UNCLASSIFIED


## UNCLASSIFIED



## UNCLASSIFIED

Exhibit P-5, Cost Analysis: PB 2024 Air Force

## Appropriation / Budget Activity / Budget Sub Activity

3022F / 01 / 10
ID Code (A=Service Ready, B=Not Service Ready) : B

## P-1 Line Item Number / Title MILSAT / MILSATCOM

Date: March 2023
Item Number / Title [DODIC]: PTW Modems

| MDAP/MAIS Code: |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Resource Summary | Prior Years | FY 2022 | FY 2023 | FY 2024 Base | FY 2024 OCO | FY 2024 Total |
| Procurement Quantity (Units in Each) | - | - | - | - | - | - |
| Gross/Weapon System Cost (\$ in Millions) | 4.518 | 13.433 | 17.338 | 16.635 | - | 16.635 |
| Less PY Advance Procurement (\$ in Millions) | - | - | - | - | - | - |
| Net Procurement (P-1) (\$ in Millions) | 4.518 | 13.433 | 17.338 | 16.635 | - | 16.635 |
| Plus CY Advance Procurement (\$ in Millions) | - | - | - | - | - | - |
| Total Obligation Authority (\$ in Millions) | 4.518 | 13.433 | 17.338 | 16.635 | - | 16.635 |
| (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) | - | - | - | - | - | - |

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

|  | Prior Years |  |  | FY 2022 |  |  | FY 2023 |  |  | FY 2024 Base |  |  | FY 2024 OCO |  |  | FY 2024 Total |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Cost Elements | Unit Cost (\$ M) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost <br> (\$ M) | Unit Cost (\$ M) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | Total Cost <br> (\$ M) | Unit Cost (\$ M) | $\underset{(\text { Each) }}{\text { Qty }}$ | Total Cost (\$ M) | Unit Cost (\$ M) | $\underset{(\text { (Each) }}{\text { Qty }}$ | Total Cost <br> (\$ M) | Unit Cost (\$ M) | Qty <br> (Each) | Total Cost <br> (\$ M) | Unit Cost (\$ M) | $\underset{(\text { (Each) }}{\text { Qty }}$ | Total Cost <br> (\$ M) |

## Hardware - A3M Cos <br> 

| Depot Tooling | - | - | - | - | - | 1.814 | - | - | - | - | - | - | - | - | - | - | - | - |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Modem Purchase (includes Labor \& Shipping) | - | - | - | - | - | - | 0.074 | 216 | 15.974 | 0.097 | 151 | 14.705 | - | - | - | 0.097 | 151 | 14.705 |
| Deployment \& Training | - | - | - | - | - | 0.411 | - | - | - | - | - | - | - | - | - | - | - | - |
| Program Evaluation Modem | 0.054 | 60 | 3.218 | 0.044 | 40 | 1.760 | - | - | - | - | - | - | - | - | - | - | - | - |
| Subtotal: Recurring Cost | - | - | 3.218 | - | - | 3.985 | - | - | 15.974 | - | - | 14.705 | - | - | - | - | - | 14.705 |
| Subtotal: Hardware - A3M Cost | - | - | 3.218 | - | - | 3.985 | - | - | 15.974 | - | - | 14.705 | - | - | - | - | - | 14.705 |



| Systems Engineering \& Integration (SE\&I) | - | - | - | - | - | 5.115 | - | - | - | - | - | 0.775 | - | - | - | - | - | 0.775 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Technical Mission Analysis | - | - | 1.300 | - | - | - | - | - | 0.347 | - | - | 0.225 | - | - | - | - | - | 0.225 |
| Other Support | - | - | - | - | - | 0.041 | - | - | 0.100 | - | - | 0.100 | - | - | - | - | - | 0.100 |
| A\&AS | - | - | - | - | - | 4.292 | - | - | 0.917 | - | - | 0.830 | - | - | - | - | - | 0.830 |
| Subtotal: Support - A3M Cost | - | - | 1.300 | - | - | 9.448 | - | - | 1.364 | - | - | 1.930 | - | - | - | - | - | 1.930 |
| Gross/Weapon System Cost | - | - | 4.518 | - | - | 13.433 | - | - | 17.338 | - | - | 16.635 |  | - |  |  | - | 16.635 |

Appropriation / Budget Activity / Budget Sub Activity:
3022F: Procurement, Space Force / BA 01: Space Procurement, SF / BSA 10: Space Programs

## P-1 Line Item Number / Title: <br> MSSBIR / SBIR High (Space)

| ID Code (A=Service Ready, B=Not Service Ready): | Program Elements for Code B Items: 0604441F | Other Related Program Elements: 1206441F |
| :--- | :--- | :--- | :--- |

Line Item MDAP/MAIS Code: N/A

| Resource Summary | Prior <br> Years | FY 2022 | FY 2023 | FY 2024 Base | $\begin{gathered} \text { FY } 2024 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \text { FY } 2024 \\ \text { Total } \end{gathered}$ | FY 2025 | FY 2026 | FY 2027 | FY 2028 | To Complete | Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Procurement Quantity (Units in Each) | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Cost (\$ in Millions) | 145.891 | 154.526 | 148.666 | 39.438 | - | 39.438 | 0.000 | 0.000 | 0.000 | 0.000 | - | 488.521 |
| Less PY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Net Procurement (P-1) (\$ in Millions) | 145.891 | 154.526 | 148.666 | 39.438 | - | 39.438 | 0.000 | 0.000 | 0.000 | 0.000 | - | 488.521 |
| Plus CY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Total Obligation Authority (\$ in Millions) | 145.891 | 154.526 | 148.666 | 39.438 | - | 39.438 | 0.000 | 0.000 | 0.000 | 0.000 | - | 488.521 |
| (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:

Note: The flyaway unit cost is not included on the P-40 exhibit because there are multiple P-5 Cost Analysis exhibits.
The Space Based Infrared System's (SBIRS) primary mission is to provide initial warning of a ballistic missile attack on the United States (US), its deployed forces and its allies. SBIRS enhances detection and improves reporting of intercontinental ballistic missiles, submarine launched ballistic missiles, and tactical ballistic missiles. SBIRS provides increased detection and tracking performance in order to meet requirements in the Operational Requirements Document (ORD). SBIRS will consist of satellites in Geosynchronous Earth Orbit (GEO) and in Highly Elliptical Earth Orbit (HEO) with an integrated, centralized ground station serving all SBIRS space elements, Defense Support Program (DSP) satellites and other program related support activities. The HEO payloads operate on a classified host.

SBIRS 3-6 SATELLITES:
SBIRS GEO-3 and 4 satellites are derivatives of the first two GEO satellites which were delivered on the SBIRS Engineering and Manufacturing Development (EMD) contract (Research, Development, Test, and Evaluation (RDT\&E) funded). The GEO-3 and 4 satellite production efforts are necessary to meet constellation requirements. In Dec 2008, the Department approved the procurement of GEO-3 and 4 satellites and the HEO-3 and 4 payloads using a Cost-Plus contract. In order to minimize the number of storage actions and costs associated with aligning the SBIRS launches to the earliest assigned Initial Launch Capability (ILC) date of Apr 2016, the GEO-3 satellite completed production and was placed into storage in Jul 2015. The GEO-4 satellite launched as the third flight (GEO-4 Flight-3) in Jan 2017. The GEO-3 (Flight-4) satellite launched in Jan 2018. GEO-3 and 4 are fully mission capable, having completed Air Force Space Command (AFSPC) and United States Strategic Command (USSTRATCOM) operational acceptance and are certified for Integrated Tactical Warning/Attack Assessment (ITW/AA) missile warning operations and technical intelligence operations.

SBIRS GEO-5 and 6 satellites are derivatives of the GEO-3 and 4 satellites and will be replacements for GEO-1 and 2. A four phased contract approach awarded non-recurring engineering and parts obsolescence using advanced procurement funds in Sep 2012, followed by award of long lead items in Feb 2013, full production in Jun 2014, and technical refresh in Jun 2015. The GEO-5 and 6 technical refresh contract modification modernizes the existing spacecraft bus design to improve commonality across United States Space Force (USSF) and Government satellite programs, and enable compatibility with multiple launch vehicles. The full production effort includes 2 satellites with persistent infrared missile and threat warning payloads, launch vehicle integration, launch and early orbit test, dual communication band modification (unified SBand), and contractor operations support through operational acceptance. The GEO-5 satellite launched on 18 May 2021. The GEO-6 Satellite successfully launched 4 Aug 2022.

For the GEO 5-6 block buy, the FY 2013 National Defense Authorization Act (NDAA) authorizes six years of incremental production funding and limits the incrementally funded contract obligation to 3,900M. The years of incremental funding are FY 2013-2018. Advance procurement was appropriated in FY 2011 and FY 2012. GEO 5-6 advance procurement and incremental funding are attributed to FY 2013 for

## Appropriation / Budget Activity / Budget Sub Activity: <br> 3022F: Procurement, Space Force / BA 01: Space Procurement, SF I BSA 10:

 Space ProgramsID Code (A=Service Ready, B=Not Service Ready):
Program Elements for Code B Items: 0604441F
Other Related Program Elements: 1206441F
Line Item MDAP/MAIS Code: N/A
 incrementally funded amount complies with the National Defense Authorization Act (NDAA) cap.

 missile warning operations and certified for technical intelligence operations. HEO-1 and HEO-2 are in a storage/residual operational mode.

Total GEO 3-4 3020/3021 funds are 2,794.947M.
Total GEO 5-6 3020/3021/3022 funds are 3,369.2M.
Total HEO 3-4 3020/3021 funds are 1,146.672M.
Total S2E2 3080/3020/3021/3022 funds are 686.944M.










 activities which provide intra-and inter-program office support to support S2E2 operations.




 Funding for this effort is program element 1203915F and 1203915SF.


 and other efforts to develop new or repurpose capabilities.

Funding for this exhibit contained in PE 1203915SF

Exhibit P-40, Budget Line Item Justification: PB 2024 Air Force
Date: March 2023

## P-1 Line Item Number / Title: <br> MSSBIR / SBIR High (Space)

 3022F: ProcureSpace Programs

| ID Code (A=Service Ready, B=Not Service Ready): | Program Elements for Code B Items: 0604441F | Other Related Program Elements: 1206441F |
| :--- | :--- | :--- |

Line Item MDAP/MAIS Code: N/A

| Exhibits Schedule |  |  |  |  | Prior Years | FY 2022 | FY 2023 | FY 2024 Base | FY 2024 OCO | FY 2024 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 <br> (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-5 | GEO 5-6 |  | A |  | - /94.048 | - 187.592 | - / 35.415 | - /1.154 | - 1 - | - / 1.154 |
| P-5 | SBIRS Survivable Endurable Evolution (S2E2) |  | A |  | - / 32.591 | - 158.855 | - 171.000 | - 19.059 | - 1 | - 19.059 |
| P-3a | 1 / SBIRS Mobile System \& Fixed Comm Electronics Upgrades (Reliability \& Maintainability) |  | B |  | / 19.252 | - 18.079 | - / 42.251 | - / 29.225 | - 10.000 | - / 29.225 |
| P-40 | Total Gross/Weapon System Cost |  |  |  | - / 145.891 | - / 154.526 | - /148.666 | - 139.438 | - | 139.438 |
| Exhibits Schedule |  |  |  |  | FY 2025 | FY 2026 | FY 2027 | FY 2028 | To Complete | 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-5 | GEO 5-6 |  | A |  | - 1 - | 1 | - 1 | - 1 | - 1 | - 1 |
| P-5 | SBIRS Survivable Endurable Evolution (S2E2) |  | A |  | - 1 - | - 1 - | - 1 - | - 1 - | - 1 - | 1 |
| P-3a | 1 / SBIRS Mobile System \& Fixed Comm Electronics Upgrades (Reliability \& Maintainability) |  | B |  | - 10.000 | - 10.000 | - 1 | - 1 | - 1 - | - / 98.807 |
| P-40 | Total Gross/Weapon System Cost |  |  |  | - 10.000 | - 10.000 | - 10.000 | - 10.000 | - 1 - | - $/ 488.521$ |

*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:

Geosynchronous Earth Orbit (GEO) 5-6: FY 2024 funds cover product support for contract closeout.



 terminals. Funding also provides Interim Contractor Support (ICS) support to program fielding efforts.
 are not limited to replacing obsolete/non-supportable Antenna Control System (ACS) hardware, resolving Cisco network/firewall device obsolescence issues, etc.


## UNCLASSIFIED

Exhibit P-5, Cost Analysis: PB 2024 Air Force

## Appropriation / Budget Activity / Budget Sub Activity

3022F / 01 / 10
ID Code (A=Service Ready, B=Not Service Ready) : A

Date: March 2023
Item Number / Title [DODIC]:
GEO 5-6

| MDAP/MAIS Code: |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Resource Summary | Prior Years | FY 2022 | FY 2023 | FY 2024 Base | FY 2024 OCO | FY 2024 Total |
| Procurement Quantity (Units in Each) | - | - | - | - | - | - |
| Gross/Weapon System Cost (\$ in Millions) | 94.048 | 87.592 | 35.415 | 1.154 | - | 1.154 |
| Less PY Advance Procurement (\$ in Millions) | - | - | - | - | - | - |
| Net Procurement (P-1) (\$ in Millions) | 94.048 | 87.592 | 35.415 | 1.154 | - | 1.154 |
| Plus CY Advance Procurement (\$ in Millions) | - | - | - | - | - | - |
| Total Obligation Authority (\$ in Millions) | 94.048 | 87.592 | 35.415 | 1.154 | - | 1.154 |
| (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) | - | - | - | - | - | - |

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

|  | Prior Years |  |  | FY 2022 |  |  | FY 2023 |  |  | FY 2024 Base |  |  | FY 2024 OCO |  |  | FY 2024 Total |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Cost Elements | Unit Cost (\$ M) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost <br> (\$ M) | Unit Cost (\$ M) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost <br> (\$ M) | Unit Cost (\$ M) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost <br> (\$ M) | Unit Cost <br> (\$ M) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | Total Cost <br> (\$ M) | Unit Cost (\$ M) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | Total Cost (\$ M) | Unit Cost (\$ M) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost <br> (\$ M) |



| GEO 5-6 Launch Vehicle and Range Integration | - | - | 6.199 | - | - | 8.197 | - | - | 2.667 | - | - | - | - | - | - | - | - | - |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Subtotal: Non Recurring Cost | - | - | 6.199 | - | - | 8.197 | - | - | 2.667 | - | - | - | - | - | - | - | - | - |
| Subtotal: Space Vehicle GEO 5-6 Cost | - | - | 34.675 | - | - | 47.772 | - | - | 4.213 | - | - | - | - | - | - | - | - | - |
| Checkout and Launch - GEO 5-6 Cost |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| GEO 5-6 Launch Ops \& Checkout | - | - | 38.531 | - | - | 26.675 | - | - | 25.629 | - | - | . | - | - | - | - | - | - |
| Interim Contractor Support (ICS) | - | - | 16.735 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Subtotal: Checkout and Launch - GEO 5-6 Cost | - | - | 55.266 | - | - | 26.675 | - | - | 25.629 | - | - | - | - | - | - | - | - | - |

UNCLASSIFIED

| Exhibit P-5, Cost Analysis: PB 2024 Air Force |  |  |  |  |  |  |  |  |  |  |  |  |  | Date: March 2023 |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: <br> 3022F / 01 / 10 |  |  |  |  |  | P-1 Line Item Number / Title: MSSBIR I SBIR High (Space) |  |  |  |  |  |  |  | Item Number / Title [DODIC]: GEO 5-6 |  |  |  |  |
| ID Code (A=Service Ready, B=Not Service Ready) : A |  |  |  |  |  |  |  |  |  | MDAP/MAIS Code: |  |  |  |  |  |  |  |  |
| Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding. |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | Prior Years |  |  | FY 2022 |  |  | FY 2023 |  |  | FY 2024 Base |  |  | FY 2024 OCO |  |  | FY 2024 Total |  |  |
| Cost Elements | Unit Cost (\$M) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | Total Cost <br> (\$ M) | Unit Cost (\$ M) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | Total <br> Cost <br> (\$ M) | Unit Cost (\$ M) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | Total Cost (\$ M) | Unit Cost (\$ M) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | Total Cost $\qquad$ | Unit Cost (\$ M) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | Total Cost (\$ M) | Unit Cost (\$ M) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | Total Cost $\qquad$ |
| Support - GEO 5-6 Cost |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Other Support | - | - | 0.305 | - | - | 4.878 | - | - | 0.919 | - | - | 0.008 | - | - | - | - | - | 0.008 |
| FFRDC | - | - | 0.983 | - | - | 1.412 | - | - | 0.143 | - | - | - | - | - | - | - | - | - |
| A\&AS | - | - | 2.819 | - | - | 6.855 | - | - | 4.511 | - | - | 1.146 | - | - | - | - | - | 1.146 |
| Subtotal: Support - GEO 5-6 <br> Cost | - | - | 4.107 | - | - | 13.145 | - | - | 5.573 | - | - | 1.154 | - | - | - | - | - | 1.154 |
| Gross/Weapon System Cost | - | - | 94.048 | - | - | 87.592 | - | - | 35.415 | - | - | 1.154 | - | - | - | - | - | 1.154 |

## Remarks:

Geosynchronous Earth Orbit (GEO) 5-6: The GEO-6 Satellite successfully launched on 4 Aug 2022.
The incrementally funded amount includes the above Total Space Vehicle Cost (less: SE and I, Launch Vehicle and Range Integration, and Interim Contractor Support) and Launch Ops and Checkout Cost. Total incrementally funded amount of $2,729.420 \mathrm{M}$ complies with FY 2013 National Defense Authorization Act (NDAA) limiting procurement cost to 3,900M.

The FY 2013 gross weapon system cost includes advance procurement amount of 243.314 M appropriated in FY 2011 and 243.500 M appropriated in FY 2012.
Total GEO 5-6 3020/3021/3022 funds are 3,369.2M

## UNCLASSIFIED

| Exhibit P-5, Cost Analysis: PB 2024 Air Force |  |  |  |  |  |  |  |  |  |  |  |  |  | Date: March 2023 |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3022F / 01 / 10 |  |  |  |  |  | P-1 Line Item Number / Title: MSSBIR / SBIR High (Space) |  |  |  |  |  |  |  | Item Number / Title [DODIC]: SBIRS Survivable Endurable Evolution (S2E2) |  |  |  |  |
| ID Code (A=Service Ready, B=Not Service Ready) : A |  |  |  |  |  |  |  |  |  | MDAP/MAIS Code: |  |  |  |  |  |  |  |  |
| Resource Summary |  |  |  |  |  | Prior Years |  | FY 2022 |  | FY 2023 |  | FY 2024 Base |  |  | FY 2024 OCO |  | FY 2024 Total |  |
| Procurement Quantity (Units in Each) |  |  |  |  |  |  |  |  | - |  |  |  |  | - |  | - |  | - |
| Gross/Weapon System Cost (\$ in Millions) |  |  |  |  |  |  | 32.591 |  | 58.855 |  | 71.00 |  |  | 9.059 |  | - |  | 9.059 |
| Less PY Advance Procurement (\$ in Millions) |  |  |  |  |  |  | - |  | - |  |  |  |  | - |  | - |  | - |
| Net Procurement (P-1) (\$ in Millions) |  |  |  |  |  |  | 32.591 |  | 58.855 |  | 71.00 |  |  | 9.059 |  | - |  | 9.059 |
| Plus CY Advance Procurement (\$ in Millions) |  |  |  |  |  |  | - |  | - |  |  |  |  | - |  | - |  | - |
| Total Obligation Authority (\$ in Millions) |  |  |  |  |  |  | 32.591 |  | 58.855 |  | 71.00 |  |  | 9.059 |  | - |  | 9.059 |
| (The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.) |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Initial Spares (\$ in Millions) |  |  |  |  |  | -  <br> -  |  | - |  | - |  | - |  |  | - |  | - |  |
| Gross/Weapon System Unit Cost (\$ in Millions) |  |  |  |  |  |  |  |  | - |  |  |  |  | - |  | - |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding. |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | Prior Years |  |  | FY 2022 |  |  | FY 2023 |  |  | FY 2024 Base |  |  | FY 2024 OCO |  |  | FY 2024 Total |  |  |
| Cost Elements | Unit Cost (\$M) | $\begin{gathered} \text { Qty } \\ (\text { (Each) } \end{gathered}$ | $\begin{aligned} & \text { Total } \\ & \text { Cost } \end{aligned}$ (\$ M) | Unit Cost (\$ M) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | $\begin{aligned} & \text { Total } \\ & \text { Cost } \\ & (\$ M) \\ & \hline \end{aligned}$ | Unit Cost (\$ M) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | Total Cost <br> (\$M) | Unit Cost | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | $\begin{aligned} & \text { Total } \\ & \text { Cost } \end{aligned}$ (\$M) | Unit Cost (\$ M) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost (\$ M) | Unit Cost (\$ M) | $\text { \|cach } \begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | $\begin{aligned} & \text { Total } \\ & \text { Cost } \\ & (\$ M) \\ & \hline \end{aligned}$ |
| Hardware - SBIRS Survivable Endurable Evolution (S2E2) Cost |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Recurring Cost |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Systems Engineering \& Integration (SE\&I) | - | - | 5.239 | - | - | 4.519 | - | - | 5.732 | - | - | 2.391 | - |  | - - | - | - | 2.391 |
| Technical Mission Analysis | - | - | 0.000 | - | - | 0.000 | - | - | - | - | - | - | - |  | - - | - | - |  |
| Subtotal: Recurring Cost | - | - | 5.239 | - | - | 4.519 | - | - | 5.732 | - | - | 2.391 | - |  | - - | - | - | 2.391 |
| Non Recurring Cost |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| S2E2 SMGT DSP/ GEO Stereo Capability Modification | - | - | 15.274 | - | - | 19.793 | - | - | 44.013 | - | - | 5.764 | - |  |  | - | - | 5.764 |
| S2E2 SMGT | - | - | 0.000 | - | - | 14.959 | - | - | 2.946 | - | - | - | - |  | - - | - | - |  |
| Subtotal: Non Recurring Cost | - | - | 15.274 | - | - | 34.752 | - | - | 46.959 | - | - | 5.764 | - |  | - - | - | - | 5.764 |
| Subtotal: Hardware - SBIRS Survivable Endurable Evolution (S2E2) Cost | - | - | 20.513 | - | - | 39.271 | - | - | 52.691 | - | - | 8.155 | - |  |  | - | - | 8.155 |
| Software - SBIRS Survivable Endurable Evolution (S2E2) Cost |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Non Recurring Cost |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| S2E2 Software | - | - | 11.807 | - | - | 16.132 | - | - | 13.335 | - | - | - | - |  | - - | - | - | - |
| Subtotal: Non Recurring Cost | - | - | 11.807 | - | - | 16.132 | - | - | ${ }^{13.335}$ | - | - | - | - |  | - . | - | - | - |


| Exhibit P-5, Cost Analysis: PB 2024 Air Force |  |  |  |  |  |  |  |  |  |  |  |  |  | Date: March 2023 |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity:$3022 \mathrm{~F} / 01 / 10$ |  |  |  |  |  | P-1 Line Item Number / Title: MSSBIR / SBIR High (Space) |  |  |  |  |  |  |  | Item Number / Title [DODIC]: <br> SBIRS Survivable Endurable Evolution (S2E2) |  |  |  |  |
| ID Code (A=Service Ready, B=Not Service Ready) : A |  |  |  |  |  |  |  |  |  | MDAP/MAIS Code: |  |  |  |  |  |  |  |  |
| Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding. |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | Prior Years |  |  | FY 2022 |  |  | FY 2023 |  |  | FY 2024 Base |  |  | FY 2024 OCO |  |  | FY 2024 Total |  |  |
| Cost Elements | Unit Cost (\$ M) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost <br> (\$ M) | Unit Cost (\$ M) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost (\$ M) | Unit Cost (\$ M) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost (\$ M) | Unit Cost (\$ M) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost (\$ M) | Unit Cost (\$ M) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost (\$ M) | Unit Cost (\$ M) | Qty (Each) | Total Cost (\$ M) |
| Subtotal: Software - SBIRS Survivable Endurable Evolution (S2E2) Cost | - | - | 11.807 | - | - | 16.132 | - | - | 13.335 | - | - | - | - | - | - | - | - | - |
| Support - SBIRS Survivable Endurable Evolution (S2E2) Cost |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Other Support | - | - | 0.050 | - | - | 0.162 | - | - | 0.225 | - | - | 0.225 | - | - | - | - | - | 0.225 |
| FFRDC | - | - | 0.000 | - | - | 0.000 | - | - | - | - | - | - | - | - | - | - | - | - |
| A\&AS | - | - | 0.221 | - | - | 3.290 | - | - | 4.749 | - | - | 0.679 | - | - | - | - | - | 0.679 |
| Subtotal: Support - SBIRS Survivable Endurable Evolution (S2E2) Cost | - | - | 0.271 | - | - | 3.452 | - | - | 4.974 | - | - | 0.904 | - | - | - | - | - | 0.904 |
| Gross/Weapon System Cost | - | - | 32.591 | - | - | 58.855 | - | - | 71.000 | - | - | 9.059 | - | - | - | - | - | 9.059 |

Remarks:

 Operations (CONOPS) signed 19 Nov 2021. S2E2 SMGT cost moved to non-recurring to match current program strategy.
 bring SBIRS GEO and Global Positioning System Nuclear Detection into the U.S. Strategic Command (USSTRATCOM).
 program office support to support S2E2 operations

Total S2E2 Funding for FY 2011-2024 \$686.944M
Quantity 5
Gross Unit Cost \$137.389M

UNCLASSIFIED

| Exhibit P-3a, Individual Modification: PB 2024 Air Force |  |  |  |  |  |  |  |  | Date: March 2023 |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity:$3022 F / 01 / 10$ |  |  |  | P-1 Line Item Number / Title: MSSBIR / SBIR High (Space) |  |  |  |  | Modification Number / Title: <br> 1 / SBIRS Mobile System \& Fixed Comm <br> Electronics Upgrades |  |  |  |
| ID Code (A=Service Ready, $\mathrm{B}=$ Not Service Ready) : B |  |  |  |  |  | MDAP/MAIS Code: |  |  |  |  |  |  |
| Resource Summary | Prior Years | FY 2022 | FY 2023 | $\begin{gathered} \text { FY } 2024 \\ \text { Base } \end{gathered}$ | $\begin{gathered} \text { FY } 2024 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \text { FY } 2024 \\ \text { Total } \end{gathered}$ | FY 2025 | FY 2026 | FY 2027 | FY 2028 | To Complete | Total |
| Procurement Quantity (Units in Each) | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Cost (\$ in Millions) | 19.252 | 8.079 | 42.251 | 29.225 | 0.000 | 29.225 | 0.000 | 0.000 | - | - | - | 98.807 |
| Less PY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Net Procurement (P-1) (\$ in Millions) | 19.252 | 8.079 | 42.251 | 29.225 | 0.000 | 29.225 | 0.000 | 0.000 | - | - | - | 98.807 |
| Plus CY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Total Obligation Authority (\$ in Millions) | 19.252 | 8.079 | 42.251 | 29.225 | 0.000 | 29.225 | 0.000 | 0.000 | - | - | - | 98.807 |
| (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:

Space Based Infrared System (SBIRS) MOBILE AND FIXED SITE COMMUNICATIONS/ELECTRONIC REPLACEMENT: This effort procures Defense Support Program (DSP) and SBIRS assets to maintain the ground system equipment. Fixed site examples include, but are not limited to, legacy receiver, antenna drive system, Spacecraft Radio Frequency (RF) simulator, Mission Control Station (MCS) display, Rapid Delog (instantaneous translation of computer data to a human-readable format), Sybase database obsolescence, communications and network routers, and switches and time server replacements. Mobile system examples include, but are not limited to, aging radio frequency communications equipment, aging antenna equipment, aging electrical equipment and cabling, and unsupportable data processing subsystem components. Funding also provides for Program Office and related support activities to include but not limited to, Systems Engineering and Technical Assistance (SETA) enterprise activities which provides intra-and inter-program office support. Funding for this effort is in program element 1203915F and 1203915SF.

FY 2024 funding will address network, mission processing, cyber security and crypto obsolescence mitigation projects with the SBIRS mission systems.
Milestone/Development Status
Program office recurring DSP and SBIRS requirements are planned and programmed on an annual basis to maintain the ground system equipment.

| Exhibit P-3a, Individual Modification: PB 2024 Air Force |  |  |  |  |  |  |  |  | Date: March 2023 |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3022F / 01 / 10 |  |  | P-1 Line Item Number / Title: MSSBIR / SBIR High (Space) |  |  |  |  |  | Modification Number / Title: <br> 1 / SBIRS Mobile System \& Fixed Comm Electronics Upgrades |  |  |  |
| ID Code (A=Service Ready, B=Not Service Ready) : B |  |  |  |  | MDAP/MAIS Code: |  |  |  |  |  |  |  |
| Models of Systems Affected: SBIRS |  | Modification Type: Reliability \& Maintainability |  |  |  |  | Related RDT\&E PEs: |  |  |  |  |  |
| Financial Plan | Prior Years | FY 2022 | FY 2023 | $\begin{gathered} \text { FY } 2024 \\ \text { Base } \end{gathered}$ | $\begin{aligned} & \text { FY } 2024 \\ & \text { OCO } \end{aligned}$ | $\begin{gathered} \text { FY } 2024 \\ \text { Total } \end{gathered}$ | FY 2025 | FY 2026 | FY 2027 | FY 2028 | To Complete | Total |
|  | $\begin{array}{\|c\|} \hline \text { Oty (Each) I } \\ \text { Total Cost (\$ M) } \\ \hline \end{array}$ | $\begin{array}{\|c\|} \hline \text { Oty (Each) I } \\ \text { Total Cost (\$ M) } \\ \hline \end{array}$ | $\begin{array}{\|c\|} \hline \text { Qty (Each) I } \\ \text { Total Cost }(\$ \mathrm{M}) \\ \hline \end{array}$ | $\begin{array}{\|c\|} \hline \text { Qty (Each) I } \\ \text { Total Cost (\$ M) } \\ \hline \end{array}$ | $\begin{array}{\|c\|} \hline \text { Qty (Each) I } \\ \text { Total Cost (\$ M) } \\ \hline \end{array}$ | $\begin{array}{\|c\|} \hline \text { Oty (Each) I } \\ \text { Total Cost (\$ M) } \\ \hline \end{array}$ | $\begin{array}{\|c\|} \hline \text { Oty (Each) I } \\ \text { Total Cost (\$ M) } \\ \hline \end{array}$ | $\begin{array}{\|c\|} \hline \text { Oty (Each) I } \\ \text { Total Cost (\$ M) } \\ \hline \end{array}$ | $\begin{array}{c\|} \hline \text { Oty (Each) I } \\ \text { Total Cost (\$ M) } \\ \hline \end{array}$ | $\begin{array}{\|c\|} \hline \text { Qty (Each) I } \\ \text { Total Cost }(\$ M) \\ \hline \end{array}$ | $\begin{gathered} \text { Qty (Each) I } \\ \text { Total Cost (\$ M) } \end{gathered}$ | $\begin{gathered} \text { Qty (Each) I } \\ \text { Total Cost }(\$ M) \\ \hline \end{gathered}$ |
| Procurement |  |  |  |  |  |  |  |  |  |  |  |  |
| Modification Item 1 of 1: SBIRS Mobile Sys \& Fixed Comm Elect Upgrades |  |  |  |  |  |  |  |  |  |  |  |  |
| B Kits |  |  |  |  |  |  |  |  |  |  |  |  |
| Recurring |  |  |  |  |  |  |  |  |  |  |  |  |
| SBIRS Mobile Sys \& Fixed Comm Elect Upgrades:EQUIPMENT Group B (Active) | 1/19.113 | 1/7.614 | 1/41.840 | 1/28.745 | - 1- | 1/28.745 | 1. | - 1 - | - 1- | - | - | 4/97.312 |
| Subtotal: Recurring | /19.113 | 17.614 | 141.840 | - /28.745 | - $1-$ | - /28.745 | - 1- | - 1 - | - 1 - | - 1 - | - 1 - | 197.312 |
| Subtotal: SBIRS Mobile Sys \& Fixed Comm Elect Upgrades | - /19.113 | - 17.614 | - 141.840 | - /28.745 | 1 - | - /28.745 | - 1 - | - 1- | - 1- | - 1 - | - 1 - | 197.312 |
| Subtotal: Procurement, All Modification Items | - /19.113 | - 17.614 | - /41.840 | - /28.745 | - 1- | - /28.745 | - 1 - | - / - | - / - | 1 - | - / - | 197.312 |
| Support (All Modification Items) |  |  |  |  |  |  |  |  |  |  |  |  |
| A\&AS | - 10.064 | - 10.091 | - 10.080 | - 10.075 | $1-$ | - 10.075 | 1. | $1-$ | $1-$ | 1. | - 1 - | - 10.310 |
| FFRDC | - 10.041 | - 10.047 | - 10.041 | - 10.055 | - 1. | - 10.055 | - 1 - | - 1 - | - 1 | - 1 - | - 1 - | - 10.184 |
| OTHER GOVT | - 10.034 | - 10.327 | - 10.290 | - 10.350 | - 1- | - 10.350 | $1-$ | $1-$ | 1 - | 1 | - 1- | - 11.001 |
| Subtotal: Support | - 10.139 | 10.465 | - 10.411 | - 10.480 | -1. | - 10.480 | - 1 - | - 1- | - 1- | - 1. | - 1. | /1.495 |
| Installation |  |  |  |  |  |  |  |  |  |  |  |  |
| Modification Item 1 of 1: SBIRS Mobile Sys \& Fixed Comm Elect Upgrades | 1/0.000 | 1/0.000 | 1/0.000 | 1/0.000 | 1. | 1/0.000 | 1. | 1. | 1. | 1. | - 1 - | $4 / 0.000$ |
| Subtotal: Installation | 1/0.000 | 1/0.000 | 1/0.000 | 1/0.000 | - 1 - | 1/0.000 | - 1 - | - 1 - | - 1 - | - 1 - | - 1 - | 4/0.000 |
| Total |  |  |  |  |  |  |  |  |  |  |  |  |
| Total Cost (Procurement + Support + Installation) | 19.252 | 8.079 | 42.251 | 29.225 | 0.000 | 29.225 | 0.000 | 0.000 | - | $\cdot$ | $\cdot$ | 98.807 |



UNCLASSIFIED

| Exhibit P-40, Budget Line Item Justification: PB 2024 Air Force |  |  |  |  |  |  |  |  | Date: March 2023 |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: <br> 3022F: Procurement, Space Force / BA 01: Space Procurement, SF / BSA 10: Space Programs |  |  |  |  | P-1 Line Item Number / Title: MSSPAC / Special Space Activities |  |  |  |  |  |  |  |
| ID Code (A=Service Ready, B=Not Service Ready): A |  |  | Program Elements for Code B Items: N/A |  |  |  |  | Other Related Program Elements: N/A |  |  |  |  |
| Line Item MDAP/MAIS Code: N/A |  |  |  |  |  |  |  |  |  |  |  |  |
| Resource Summary | Prior Years | FY 2022 | FY 2023 | $\begin{gathered} \text { FY } 2024 \\ \text { Base } \end{gathered}$ | $\begin{gathered} \text { FY } 2024 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \text { FY } 2024 \\ \text { Total } \end{gathered}$ | FY 2025 | FY 2026 | FY 2027 | FY 2028 | To Complete | Total |
| Procurement Quantity (Units in Each) | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Cost (\$ in Millions) | - | 131.488 | 871.054 | 840.913 | - | 840.913 | 442.006 | 522.822 | 728.790 | 735.296 | - | 4,272.369 |
| Less PY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Net Procurement (P-1) (\$ in Millions) | - | 131.488 | 871.054 | 840.913 | - | 840.913 | 442.006 | 522.822 | 728.790 | 735.296 | - | 4,272.369 |
| Plus CY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Total Obligation Authority (\$ in Millions) | - | 131.488 | 871.054 | 840.913 | - | 840.913 | 442.006 | 522.822 | 728.790 | 735.296 | - | 4,272.369 |
| (The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.) |  |  |  |  |  |  |  |  |  |  |  |  |
| Initial Spares (\$ in Milions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Flyaway Unit Cost (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Unit Cost (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Description: |  |  |  |  |  |  |  |  |  |  |  |  |
| Justification: <br> This program is reported in accordance with Title 10, United States Code, Section 119(a)(1) in the Special Access Program Annual Report to Congress. |  |  |  |  |  |  |  |  |  |  |  |  |

## THIS PAGE INTENTIONALLY LEFT BLANK

Appropriation / Budget Activity / Budget Sub Activity:
3022F: Procurement, Space Force / BA 01: Space Procurement, SF / BSA 10: Space Programs

Program Elements for Code B Items: 1203109SF

## P-1 Line Item Number / Title:

MUOS00 / Mobile User Objective System

ID Code (A=Service Ready, B=Not Service Ready): A
Line Item MDAP/MAIS Code: 345

| Resource Summary | Prior <br> Years | FY 2022 | FY 2023 | $\text { FY } 2024$ Base | $\begin{gathered} \text { FY } 2024 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \text { FY } 2024 \\ \text { Total } \end{gathered}$ | FY 2025 | FY 2026 | FY 2027 | FY 2028 | To Complete | Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Procurement Quantity (Units in Each) | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Cost (\$ in Millions) | - | 45.371 | 46.833 | 101.147 | - | 101.147 | 48.912 | 49.876 | 51.142 | 52.215 | - | 395.496 |
| Less PY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Net Procurement (P-1) (\$ in Millions) | - | 45.371 | 46.833 | 101.147 | - | 101.147 | 48.912 | 49.876 | 51.142 | 52.215 | - | 395.496 |
| Plus CY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Total Obligation Authority (\$ in Millions) | - | 45.371 | 46.833 | 101.147 | - | 101.147 | 48.912 | 49.876 | 51.142 | 52.215 | - | 395.496 |
| (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:


 (UFO) system, which is currently beyond its design life. MUOS consists of Space, Ground, and User Entry Segments. MUOS reached full operational capability October 2019.


 the six MUOS ground sites within each given year. The MUOS Ground Segment upgrades address cybersecurity and lifecycle management issues at each of the six MUOS ground sites.


 (SF). All four RAFs and two Satellite Control Facilities are considered Ground Sites.

 terminal certification testing.
 deficiencies.




Exhibit P-40, Budget Line Item Justification: PB 2024 Air Force
Date: March 2023

## Appropriation / Budget Activity / Budget Sub Activity:

3022F: Procurement, Space Force / BA 01: Space Procurement, SF / BSA 10: Space Programs

|  |  | ID Code (A=Service Ready, B=Not Service Ready): A | Program Elements for Code B Items: 1203109SF |
| :--- | :--- | :--- | :--- |

Line Item MDAP/MAIS Code: 345

| Exhibits Schedule |  |  |  |  | Prior Years | FY 2022 | FY 2023 | FY 2024 Base | FY 2024 OCO | FY 2024 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 / Mobile User Objective System (Other) |  | A |  | - 1 - | - /45.371 | - /46.833 | - / 101.147 | - 10.000 | - / 101.147 |
| P-40 | Total Gross/Weapon System Cost |  |  |  | - 1 - | - / 45.371 | - /46.833 | - / 101.147 | - 1 | - / 101.147 |
| Exhibits Schedule |  |  |  |  | FY 2025 | FY 2026 | FY 2027 | FY 2028 | To Complete | 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 / Mobile User Objective System (Other) |  | A |  | - / 48.912 | - 149.876 | - / 51.142 | - / 52.215 | - 1 - | - / 395.496 |
| P-40 | Total Gross/Weapon System Cost |  |  |  | - 148.912 | - 149.876 | - / 51.142 | - 152.215 | - 1- | - 1395.496 |

*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:











 Solaris OS based components, and Redhat/LINUX OS-based components. Addressing software obsolescence may also include hardware replacement to support the new OS.


## Description:

MUOS Ground System Updates are to correct functional and cyber defects as well as address hardware and software obsolescence. Configuration updates are deployed as modification kits which are variable in scope and require significant non-recurring engineering and integration testing to ensure hardware and software system updates do not adversely impact ongoing operations. A specific modification kit's scope depends primarily on the magnitude and severity of the functional defects, cybersecurity defects and vulnerabilities, and obsolescence.

Funding is for five Ground System updates for each of the four Radio Access Facilities and three Ground System updates for each of the two Satellite Control Facilities in each fiscal year through the FYDP. The Ground System updates address hardware and software defect resolution as well as hardware degradation. The hardware/software updates are installed at each ground site as part of the MUOS operational end item requirements; ground system defect resolution includes associated engineering, integration, test, and delivery efforts to address cybersecurity vulnerabilities, and corrects issues to ensure readiness levels support the warfighter narrowband SATCOM requirements. To address hardware degradation, obsolete items will be replaced in phases in each fiscal year and can include GPS-based Timing and Frequency Distribution System, data back-up and recovery, and Earth Terminal Antenna components. Obsolete software components include Microsoft OS-based workstations and servers, Solaris OS based components, and Redhat/LINUX OS-based components. Addressing software obsolescence may also include hardware replacement to support the new OS.

Additionally, funding is for integration and testing of the necessary hardware and software upgrade options which address system deficiencies.
Milestone/Development Status
Development is on-track to meet system update targets and timelines.

Exhibit P-3a, Individual Modification: PB 2024 Air Force

## Appropriation / Budget Activity / Budget Sub Activity:

 3022F / 01 / 10ID Code (A=Service Ready, B=Not Service Ready) : A

| Models of Systems Affected: None |  | Modification Type: Other |  |  | Related RDT\&E PEs: 1203109SF |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Financial Plan | Prior Years | FY 2022 | FY 2023 | $\begin{gathered} \text { FY } 2024 \\ \text { Base } \end{gathered}$ | $\begin{gathered} \text { FY } 2024 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \text { FY } 2024 \\ \text { Total } \end{gathered}$ | FY 2025 | FY 2026 | FY 2027 | FY 2028 | To Complete | Total |
|  | Qty (Each) I <br> Total Cost (\$ M) | $\begin{array}{\|c\|} \hline \text { Qty (Each) I } \\ \text { Total Cost (\$ M) } \\ \hline \end{array}$ | $\begin{array}{\|c\|} \hline \text { Qty (Each) I } \\ \text { Total Cost (\$ M) } \end{array}$ | 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) | Qty (Each) I Total Cost (\$ M) | Qty (Each) I Total Cost (\$ M) | Qty (Each) I Total Cost (\$ M) |
| RDT\&E PE \# |  |  |  |  |  |  |  |  |  |  |  |  |
| 1203109SF | 1 - | - / 110.493 | - / 110.142 | - 1230.785 | 1 - | - 1230.785 | - 1435.486 | - 1595.552 | - 1676.140 | - 1604.844 | - 1- | - 12,763.442 |
| Procurement |  |  |  |  |  |  |  |  |  |  |  |  |
| Modification Item 1 of 6: 10 SOPS OL-D (Schriever SFB) |  |  |  |  |  |  |  |  |  |  |  |  |
| A Kits |  |  |  |  |  |  |  |  |  |  |  |  |
| Recurring |  |  |  |  |  |  |  |  |  |  |  |  |
| 10 SOPS OL-D (Schriever SFB):INSTALL KITS Group A (Active) | 1 - | 5/0.829 | $3 / 0.857$ | 3/1.899 | - 1- | 3/1.899 | 3/0.896 | 3/0.913 | 3/0.937 | $3 / 0.956$ | 1 | $23 / 7.287$ |
| Subtotal: Recurring | / - | - 10.829 | - 10.857 | - /1.899 | - / - | - /1.899 | - 10.896 | - 10.913 | - 10.937 | - 10.956 | / - | - 17.287 |
| Subtotal: 10 SOPS OL-D (Schriever SFB) | 1 - | - 10.829 | - 10.857 | - /1.899 | 1 | - /1.899 | - 10.896 | - 10.913 | - 10.937 | - 10.956 | 1 | - 17.287 |
| Modification Item 2 of 6: Geraldton Ground Site |  |  |  |  |  |  |  |  |  |  |  |  |
| A Kits |  |  |  |  |  |  |  |  |  |  |  |  |
| Recurring |  |  |  |  |  |  |  |  |  |  |  |  |
| Geraldton Ground Site:INSTALL KITS Group A (Active) | - 1 - | 5/6.287 | 5/6.494 | 5/14.394 | - 1 - | 5/14.394 | 5/6.790 | 5/6.924 | 5/7.101 | 5/7.250 | - 1 - | 35/55.240 |
| Subtotal: Recurring | - 1 - | - /6.287 | - 16.494 | - /14.394 | - 1 | - /14.394 | - 16.790 | - 16.924 | - /7.101 | - 17.250 | 1 - | - /55.240 |
| Subtotal: Geraldton Ground Site | 1 | - /6.287 | - /6.494 | - /14.394 | 1 | - /14.394 | - /6.790 | - /6.924 | - /7.101 | - 17.250 | - 1 - | - /55.240 |
| Modification Item 3 of 6: HQ (Port Hueneme) 10 SOPS |  |  |  |  |  |  |  |  |  |  |  |  |
| A Kits |  |  |  |  |  |  |  |  |  |  |  |  |
| Recurring |  |  |  |  |  |  |  |  |  |  |  |  |
| HQ (Port Hueneme) 10 SOPS:INSTALL KITS Group A (Active) | - 1- | 5/0.932 | $3 / 0.963$ | 3/2.134 | 1 - | 3/2.134 | 3/1.007 | 3/1.027 | $3 / 1.053$ | 3/1.075 | 1 - | $23 / 8.191$ |
| Subtotal: Recurring | - 1 - | - 10.932 | - 10.963 | - 12.134 | 1 - | - /2.134 | - /1.007 | - /1.027 | - /1.053 | - /1.075 | 1 - | - /8.191 |
| Subtotal: HQ (Port Hueneme) 10 SOPS | - 1 - | - 10.932 | - 10.963 | - 12.134 | - 1 | - /2.134 | - /1.007 | - /1.027 | - /1.053 | - /1.075 | - 1 | /8.191 |
| Modification Item 4 of 6: Niscemi Ground Site |  |  |  |  |  |  |  |  |  |  |  |  |
| A Kits |  |  |  |  |  |  |  |  |  |  |  |  |
| Recurring |  |  |  |  |  |  |  |  |  |  |  |  |
| Niscemi Ground Site:INSTALL KITS Group A (Active) | - 1- | 5/6.337 | 5/6.545 | 5/14.509 | - 1- | 5/14.509 | 5/6.845 | 5/6.979 | 5/7.157 | 5/7.307 | 1 | 35/55.679 |
| Subtotal: Recurring | 1 - | - /6.337 | - 16.545 | - /14.509 | 1 - | - /14.509 | - 16.845 | - /6.979 | - /7.157 | - 17.307 | 1 - | - / 55.679 |
| Subtotal: Niscemi Ground Site | - / - | - /6.337 | - /6.545 | - /14.509 | - 1- | - /14.509 | - /6.845 | - /6.979 | - /7.157 | - 17.307 | - 1- | - /55.679 |

Modification Item 5 of 6: Northwest (VA) Ground Site

Exhibit P-3a, Individual Modification: PB 2024 Air Force

## Appropriation / Budget Activity / Budget Sub Activity:

 3022F / 01 / 10ID Code (A=Service Ready, B=Not Service Ready) : A

Date: March 2023

## Modification Number / Title:

1 / Mobile User Objective System

MDAP/MAIS Code:

| Models of Systems Affected: None | Modification Type: Other |  |  |  |  |  | Related RDT\&E PEs: 1203109SF |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Financial Plan | Prior Years | FY 2022 | FY 2023 | $\begin{gathered} \text { FY } 2024 \\ \text { Base } \end{gathered}$ | $\begin{gathered} \text { FY } 2024 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \text { FY } 2024 \\ \text { Total } \end{gathered}$ | FY 2025 | FY 2026 | FY 2027 | FY 2028 | To Complete | 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) | $\begin{gathered} \hline \text { Qty (Each) I } \\ \text { Total Cost (\$ M) } \end{gathered}$ | $\begin{array}{\|c\|} \hline \text { Qty (Each) I } \\ \text { Total Cost (\$ M) } \\ \hline \end{array}$ | $\begin{array}{\|c\|} \hline \text { Qty (Each) I } \\ \text { Total Cost (\$ M) } \end{array}$ | $\begin{gathered} \hline \text { Qty (Each) I } \\ \text { Total Cost (\$ M) } \end{gathered}$ | Qty (Each) I Total Cost (\$ M) | Qty (Each) I Total Cost (\$ M) | Qty (Each) I Total Cost (\$ M) | $\begin{gathered} \text { Qty (Each) I } \\ \text { Total Cost }(\$ M) \\ \hline \end{gathered}$ |
| A Kits |  |  |  |  |  |  |  |  |  |  |  |  |
| Recurring |  |  |  |  |  |  |  |  |  |  |  |  |
| Northwest (VA) Ground Site:INSTALL KITS Group A (Active) | 1 | 5/8.638 | 5/8.922 | 5/19.777 | - 1 - | 5/19.777 | 5/9.330 | 5/9.513 | 5/9.756 | 5/9.961 | 1 | $35 / 75.897$ |
| Subtotal: Recurring | / - | - 18.638 | - 18.922 | - /19.777 | / - | - /19.777 | - 19.330 | - 19.513 | - 19.756 | - /9.961 | - / - | - /75.897 |
| Subtotal: Northwest (VA) Ground Site | 1 | - 18.638 | 18.922 | - /19.777 | 1 | - /19.777 | - 19.330 | - /9.513 | - 19.756 | - /9.961 | / | 175.897 |
| Modification Item 6 of 6: Wahiawa Ground Site |  |  |  |  |  |  |  |  |  |  |  |  |
| A Kits |  |  |  |  |  |  |  |  |  |  |  |  |
| Recurring |  |  |  |  |  |  |  |  |  |  |  |  |
| Wahiawa Ground Site:INSTALL KITS Group A (Active) | - 1 - | 5/20.194 | 5/20.855 | 5/46.228 | - 1- | 5/46.228 | 5/21.806 | 5/22.237 | 5/22.806 | 5/23.285 | - 1- | $35 / 177.411$ |
| Subtotal: Recurring | - / - | - /20.194 | - /20.855 | - /46.228 | - / - | - /46.228 | - /21.806 | - /22.237 | - /22.806 | - /23.285 | 1 | - /177.411 |
| Subtotal: Wahiawa Ground Site | 1 | - /20.194 | - /20.855 | - /46.228 | 1 | - /46.228 | - /21.806 | - /22.237 | - /22.806 | - /23.285 | - / - | - /177.411 |
| Subtotal: Procurement, All Modification Items | 1 | - /43.217 | - /44.636 | - /98.941 | - 1 - | - /98.941 | - /46.674 | - /47.593 | - /48.810 | - /49.834 | / - | - /379.705 |
| Installation |  |  |  |  |  |  |  |  |  |  |  |  |
| Modification Item 1 of 6: 10 SOPS OL-D (Schriever SFB) | - 1 - | $5 / 0.234$ | $3 / 0.239$ | $3 / 0.235$ | - 1 - | $3 / 0.235$ | $3 / 0.240$ | $3 / 0.245$ | $3 / 0.250$ | $3 / 0.255$ | 1 | 23/1.698 |
| Modification Item 2 of 6: Geraldton Ground Site | 1 | 5/0.449 | 5/0.458 | 5/0.463 | - 1 - | 5/0.463 | 5/0.458 | 5/0.468 | 5/0.477 | 5/0.488 | 1 | 35/3.261 |
| Modification Item 3 of 6: HQ (Port Hueneme) 10 SOPS | 1 | 5/0.232 | $3 / 0.236$ | $3 / 0.237$ | 1 | $3 / 0.237$ | $3 / 0.240$ | 310.245 | $3 / 0.250$ | $3 / 0.255$ | - 1- | 23/1.695 |
| Modification Item 4 of 6: Niscemi Ground Site | 1 | 5/0.423 | 5/0.431 | 5/0.437 | 1 | 5/0.437 | 5/0.436 | 5/0.444 | 5/0.454 | 5/0.464 | 1 | $35 / 3.089$ |
| Modification Item 5 of 6: Northwest (VA) Ground Site | - 1 - | 5/0.285 | 5/0.291 | 5/0.292 | 1 | 5/0.292 | 5/0.301 | 5/0.306 | 5/0.314 | 5/0.320 | 1 | 35/2.109 |
| Modification Item 6 of 6: Wahiawa Ground Site | 1 | 5/0.531 | 5/0.542 | 5/0.542 | 1 | 5/0.542 | 5/0.563 | 5/0.575 | 5/0.587 | 5/0.599 | 1 | $35 / 3.939$ |
| Subtotal: Installation | - / - | 30/2.154 | 26/2.197 | 26/2.206 | 1 | 26/2.206 | 26/2.238 | 26/2.283 | 26/2.332 | 26/2.381 | / - | 186/15.791 |
| Total |  |  |  |  |  |  |  |  |  |  |  |  |
| Total Cost (Procurement + Support + Installation) | - | 45.371 | 46.833 | 101.147 | 0.000 | 101.147 | 48.912 | 49.876 | 51.142 | 52.215 | - | 395.496 |

Exhibit P-3a, Individual Modification: PB 2024 Air Force Appropriation / Budget Activity / Budget Sub Activity: 3022F / 01 / 10
ID Code (A=Service Ready, B=Not Service Ready) : A
Modification Item 1 of 6: 10 SOPS OL-D (Schriever SFB)

## Manufacturer Information

| Manufacturer Name: General Dynamics |  |  |  | Manufacturer Location: Scottsdale, AZ |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Administrative Leadtime (in Months): 1 |  |  |  | Production Leadtime (in Months): 2 |  |  |  |
| Dates | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | FY 2027 | FY 2028 |
| Contract Dates | Nov 2021 | Nov 2022 | Nov 2023 | Nov 2024 | Nov 2025 | Nov 2026 | Nov 2027 |
| Delivery Dates | Jan 2022 | Jan 2023 | Jan 2024 | Jan 2025 | Jan 2026 | Jan 2027 | Jan 2028 |

## Installation Information

Method of Implementation: Contract Field Team

|  | Prior Years | FY 2022 | FY 2023 | $\begin{gathered} \text { FY } 2024 \\ \text { Base } \end{gathered}$ | $\begin{gathered} \text { FY } 2024 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \text { FY } 2024 \\ \text { Total } \end{gathered}$ | FY 2025 | FY 2026 | FY 2027 | FY 2028 | To Complete | 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) | $\begin{aligned} & \text { Qty (Each) I } \\ & \text { Total Cost (\$ M) } \end{aligned}$ | 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) | Qty (Each) I Total Cost (\$ M) |
| Prior Years | - 1 - | - 1 - | - 1 - | - 1 - | - 1- | - 1 - | - 1 - | - 1 - | - 1 - | - 1 - | - 1 | - 1 - |
| FY 2022 | - 1 - | 5/0.234 | - 1 - | - 1 - | 1 - | - 1 - | - 1 | - 1 | - 1 - | - 1 | - 1 | 5/0.234 |
| FY 2023 | 1 - | - 1 - | $3 / 0.239$ | 1 - | 1 | 1 - | 1 | - 1 | - 1 | - 1 | 1 | 310.239 |
| FY 2024 | 1 - | - 1 - | - 1 - | 3/0.235 | 1 | 3/0.235 | 1 | 1 | - 1 - | - 1 | 1 | 310.235 |
| FY 2025 | 1 - | 1 - | - 1 - | - 1 - | 1 | - 1 | $3 / 0.240$ | 1 - | - 1 | - 1 | - 1 | $3 / 0.240$ |
| FY 2026 | 1 - | 1 | -1 | - 1 - | 1 | 1 | - 1 | $3 / 0.245$ | 1 | - 1 | 1 | 3/0.245 |
| FY 2027 | 1 - | - 1 - | - 1 | - 1 - | 1 - | 1 | 1 | 1 | $3 / 0.250$ | - 1 | 1 | $3 / 0.250$ |
| FY 2028 | 1 - | 1 - | - 1 - | - 1 - | 1 - | 1 | 1 | 1 | - 1 | 3/0.255 | 1 | 3/0.255 |
| To Complete | 1 - | 1 | - 1 - | 1 - | 1 - | 1 | 1 | 1 | 1 | - 1 | 1 | 1 |
| Total | - 1- | 5/0.234 | $3 / 0.239$ | 3/0.235 | - 1- | 3/0.235 | 3/0.240 | $3 / 0.245$ | 3/0.250 | $3 / 0.255$ | - 1- | 23/1.698 |

Installation Schedule


Exhibit P-3a, Individual Modification: PB 2024 Air Force Appropriation / Budget Activity / Budget Sub Activity: 3022F / 01 / 10
ID Code (A=Service Ready, B=Not Service Ready) : A
Modification Item 2 of 6: Geraldton Ground Site

## Manufacturer Information

| Manufacturer Name: General Dynamics |  |  |  | Manufacturer Location: Scottsdale, AZ |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Administrative Leadtime (in Months): 1 |  |  |  | Production Leadtime (in Months): 2 |  |  |  |
| Dates | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | FY 2027 | FY 2028 |
| Contract Dates | Nov 2021 | Nov 2022 | Nov 2023 | Nov 2024 | Nov 2025 | Nov 2026 | Nov 2027 |
| Delivery Dates | Jan 2022 | Jan 2023 | Jan 2024 | Jan 2025 | Jan 2026 | Jan 2027 | Jan 2028 |


| Installation Information |
| :--- |
| Method of Implementation: Contract Field Team |


|  | Prior Years | FY 2022 | FY 2023 | $\begin{gathered} \text { FY } 2024 \\ \text { Base } \end{gathered}$ | $\begin{gathered} \text { FY } 2024 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \text { FY } 2024 \\ \text { Total } \end{gathered}$ | FY 2025 | FY 2026 | FY 2027 | FY 2028 | To Complete | 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) | 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 - | - 1 - | - 1 - | 1- | - 1 - | - 1 - | - 1 - | - 1 - | - 1 - | - 1 | - 1 - |
| FY 2022 | 1 - | 5/0.449 | - 1 - | - 1 - | 1 - | 1 | - 1 | - 1 - | - 1 - | - 1 | 1 | 5/0.449 |
| FY 2023 | 1 | 1 - | 5/0.458 | 1 - | 1 | 1 | - 1 | - 1 | - 1 | - 1 | 1 | 5/0.458 |
| FY 2024 | 1 | 1 | - 1 - | 5/0.463 | - 1 - | 5/0.463 | 1 | 1 | - 1 | - 1 | 1 | 5/0.463 |
| FY 2025 | 1 - | 1 - | - 1 - | - 1 - | 1 | 1 | 5/0.458 | - 1 - | - 1 | - 1 | 1 | 5/0.458 |
| FY 2026 | 1 - | - 1 - | - 1 - | - 1 - | 1 - | 1 | 1 | 5/0.468 | 1 | - 1 - | 1 | 5/0.468 |
| FY 2027 | - 1 - | - 1 - | - 1 - | - 1 - | 1 - | - 1 - | - 1 - | - 1 | 5/0.477 | - 1 - | 1 - | 5/0.477 |
| FY 2028 | 1 - | - 1 - | - 1 - | - 1- | 1 - | 1 - | - 1 - | - 1 - | - 1 - | 5/0.488 | 1 - | 5/0.488 |
| To Complete | 1 - | 1 - | - 1- | - 1- | 1 - | 1 - | 1 - | 1 - | - 1- | - 1 - | 1 - | - 1 - |
| Total | - 1- | 5/0.449 | 5/0.458 | 5/0.463 | - 1- | 5/0.463 | 5/0.458 | 5/0.468 | 5/0.477 | 5/0.488 | - 1- | 35/3.261 |

Installation Schedule


Exhibit P-3a, Individual Modification: PB 2024 Air Force Appropriation / Budget Activity / Budget Sub Activity: 3022F / 01 / 10
ID Code (A=Service Ready, B=Not Service Ready) : A
Modification Item 3 of 6: HQ (Port Hueneme) 10 SOPS


Exhibit P-3a, Individual Modification: PB 2024 Air Force

## Appropriation / Budget Activity / Budget Sub Activity:

 3022F / 01 / 10ID Code (A=Service Ready, B=Not Service Ready) : A
Modification Item 4 of 6: Niscemi Ground Site

## Manufacturer Information

| Manufacturer Name: General Dynamics |  |  |  | Manufacturer Location: Scottsdale, AZ |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Administrative Leadtime (in Months): 1 |  |  |  | Production Leadtime (in Months): 2 |  |  |  |
| Dates | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | FY 2027 | FY 2028 |
| Contract Dates | Nov 2021 | Nov 2022 | Nov 2023 | Nov 2024 | Nov 2025 | Nov 2026 | Nov 2027 |
| Delivery Dates | Jan 2022 | Jan 2023 | Jan 2024 | Jan 2025 | Jan 2026 | Jan 2027 | Jan 2028 |

## Installation Information

Method of Implementation: Contract Field Team

| Installation Cost | Prior Years | FY 2022 | FY 2023 | $\begin{gathered} \text { FY } 2024 \\ \text { Base } \end{gathered}$ | $\begin{gathered} \text { FY } 2024 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \text { FY } 2024 \\ \text { Total } \end{gathered}$ | FY 2025 | FY 2026 | FY 2027 | FY 2028 | To Complete | 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) | 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 - | - 1 - | - 1 - | 1 - | - 1 - | - 1 - | - 1 - | - 1 - | - 1 | 1 | 1 |
| FY 2022 | 1 | 5/0.423 | - 1 - | 1 - | 1 - | 1 - | 1 - | - 1 - | - 1- | -1 | 1 | 5/0.423 |
| FY 2023 | 1 | - 1 - | 5/0.431 | 1 - | 1 | 1 - | 1 | - 1 - | - 1 - | - 1 - | 1 | 5/0.431 |
| FY 2024 | 1 - | - 1- | - 1 - | 5/0.437 | 1 | 5/0.437 | 1 | - 1 - | - 1- | - 1 - | 1 - | 5/0.437 |
| FY 2025 | 1 - | - 1 - | - 1 - | - 1 - | - 1 - | - 1 - | 5/0.436 | - 1 - | - 1 - | - 1 - | 1 - | 5/0.436 |
| FY 2026 | 1 - | - 1 - | - 1 - | - 1 - | - 1 - | - 1 - | - 1 - | 5/0.444 | - 1 - | - 1 | - 1 - | 5/0.444 |
| FY 2027 | - 1 - | - 1 - | - 1 - | - 1 - | 1 - | - 1 - | - 1 - | - 1 | 5/0.454 | - 1 - | - 1 - | 5/0.454 |
| FY 2028 | 1 - | - 1 | - 1 - | - 1- | 1 - | 1 | - 1 | - 1 | - 1 - | 5/0.464 | - 1 - | 5/0.464 |
| To Complete | - 1 - | - 1 - | - 1 - | - 1 - | - 1 - | - 1 - | - 1 - | - 1 - | - 1 - | - 1 - | 1 - | 1 - |
| Total | 1 - | 5/0.423 | 5/0.431 | 5/0.437 | 1 - | 5/0.437 | 5/0.436 | 5/0.444 | 5/0.454 | 5/0.464 | - 1 | 35/3.089 |

Installation Schedule


Exhibit P-3a, Individual Modification: PB 2024 Air Force Appropriation / Budget Activity / Budget Sub Activity: 3022F / 01 / 10
ID Code (A=Service Ready, B=Not Service Ready) : A
Modification Item 5 of 6: Northwest (VA) Ground Site

## Manufacturer Information

| Manufacturer Name: General Dynamics |  |  |  | Manufacturer Location: Scottsdale, AZ |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Administrative Leadtime (in Months): 1 |  |  |  | Production Leadtime (in Months): 2 |  |  |  |
| Dates | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | FY 2027 | FY 2028 |
| Contract Dates | Nov 2021 | Nov 2022 | Nov 2023 | Nov 2024 | Nov 2025 | Nov 2026 | Nov 2027 |
| Delivery Dates | Jan 2022 | Jan 2023 | Jan 2024 | Jan 2025 | Jan 2026 | Jan 2027 | Jan 2028 |

## Installation Information

Method of Implementation: Contract Field Team

|  | Prior Years | FY 2022 | FY 2023 | $\begin{gathered} \text { FY } 2024 \\ \text { Base } \end{gathered}$ | $\begin{gathered} \text { FY } 2024 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \text { FY } 2024 \\ \text { Total } \end{gathered}$ | FY 2025 | FY 2026 | FY 2027 | FY 2028 | To Complete | Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Installation Cost | 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) | Qty (Each) I <br> 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 <br> Total Cost (\$ M) | Qty (Each) I Total Cost (\$ M) | Qty (Each) I <br> Total Cost (\$ M) | Qty (Each) I Total Cost (\$ M) |
| Prior Years | 1 - | 1 - | - 1 - | - 1 - | 1 - | - 1 - | - 1 | - 1 - | - 1 - | - 1 | 1 | 1 |
| FY 2022 | 1 | 5/0.285 | - 1 - | 1 - | 1 - | 1 - | 1 - | 1 - | - 1- | -1 | 1 | 5/0.285 |
| FY 2023 | 1 | - 1 - | 5/0.291 | 1 - | 1 | 1 | 1 | - 1 - | - 1 - | - 1 | - 1 - | 5/0.291 |
| FY 2024 | 1 - | - 1- | - 1 - | 5/0.292 | 1 | 5/0.292 | 1 | - 1 - | - 1 - | - 1- | 1 - | 5/0.292 |
| FY 2025 | 1 - | - 1 - | - 1 - | - 1 - | 1 - | - 1 - | 5/0.301 | - 1 - | - 1 - | - 1 - | 1 - | 5/0.301 |
| FY 2026 | 1 - | - 1 - | - 1 - | - 1 - | - 1 - | - 1 - | - 1 | 5/0.306 | - 1 - | - 1 | - 1 | 5/0.306 |
| FY 2027 | - 1 - | - 1 - | - 1 - | - 1 - | 1 - | - 1 - | - 1 | - 1 | 5/0.314 | - 1 - | - 1 | 5/0.314 |
| FY 2028 | 1 - | - 1 | - 1 - | - 1- | 1 - | 1 | - 1 | - 1 | - 1 - | 5/0.320 | 1 | 5/0.320 |
| To Complete | 1 - | - 1 - | - 1 - | - 1 - | 1 - | - 1 - | - 1 - | - 1 - | - 1 - | - 1 - | - 1 - | 1 - |
| Total | 1 - | 5/0.285 | 5/0.291 | 5/0.292 | 1 - | 5/0.292 | 5/0.301 | 5/0.306 | 5/0.314 | 5/0.320 | - 1 | 35/2.109 |

Installation Schedule


Exhibit P-3a, Individual Modification: PB 2024 Air Force Appropriation / Budget Activity / Budget Sub Activity: 3022F / 01 / 10
ID Code (A=Service Ready, B=Not Service Ready) : A
Modification Item 6 of 6: Wahiawa Ground Site

## Manufacturer Information

| Manufacturer Name: General Dynamics |  |  |  | Manufacturer Location: Scottsdale, AZ |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Administrative Leadtime (in Months): 1 |  |  |  | Production Leadtime (in Months): 2 |  |  |  |
| Dates | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | FY 2027 | FY 2028 |
| Contract Dates | Nov 2021 | Nov 2022 | Nov 2023 | Nov 2024 | Nov 2025 | Nov 2026 | Nov 2027 |
| Delivery Dates | Jan 2022 | Jan 2023 | Jan 2024 | Jan 2025 | Jan 2026 | Jan 2027 | Jan 2028 |


| Installation Information |
| :--- |
| Method of Implementation: Contract Field Team |


| Installation Cost | Prior Years | FY 2022 | FY 2023 | $\begin{gathered} \text { FY } 2024 \\ \text { Base } \end{gathered}$ | $\begin{gathered} \text { FY } 2024 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \text { FY } 2024 \\ \text { Total } \end{gathered}$ | FY 2025 | FY 2026 | FY 2027 | FY 2028 | To Complete | 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) | 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 - | - 1 - | - 1 - | - 1- | - 1 - | - 1 - | - 1 - | - 1 - | - 1 - | - 1 - | - 1 - |
| FY 2022 | 1 - | 5/0.531 | - 1 - | - 1 - | - 1- | - 1 - | - 1- | - 1 - | - 1 - | - 1 - | 1 | 5/0.531 |
| FY 2023 | 1 - | - 1 - | 5/0.542 | - 1- | 1 - | - 1 - | -1 | - 1 | - 1 | - 1 | 1 | 5/0.542 |
| FY 2024 | 1 - | - 1 - | - 1 - | 5/0.542 | 1 | 5/0.542 | - 1 - | - 1 | - 1 | -1 | 1 | 5/0.542 |
| FY 2025 | - 1 - | - 1 - | - 1 - | - 1 - | - 1 - | - 1 - | 5/0.563 | - 1 - | - 1 | - 1 | - 1 | 5/0.563 |
| FY 2026 | 1 - | - 1 - | - 1 - | - 1 - | - 1 - | - 1 | - 1 - | 5/0.575 | - 1 | - 1 | 1 | 5/0.575 |
| FY 2027 | 1 | - 1 | - 1 - | - 1 - | 1 | 1 | - 1 | - 1 - | 5/0.587 | - 1 - | 1 | 5/0.587 |
| FY 2028 | 1 - | 1 | - 1 - | - 1- | 1 - | 1 | 1 | 1 - | - 1 - | 5/0.599 | 1 | 5/0.599 |
| To Complete | 1 - | 1 - | - 1 - | - 1- | 1 - | 1 | 1 | 1 | - 1 - | - 1 - | - 1 | - 1- |
| Total | 1 - | 5/0.531 | 5/0.542 | 5/0.542 | 1 - | 5/0.542 | 5/0.563 | 5/0.575 | 5/0.587 | 5/0.599 | - 1- | 35/3.939 |

Installation Schedule


Appropriation / Budget Activity / Budget Sub Activity:
3022F: Procurement, Space Force / BA 01: Space Procurement, SF / BSA 10: Space Programs
ID Code (A=Service Ready, B=Not Service Ready): A
Program Elements for Code B Items: N/A

## P-1 Line Item Number / Title:

NSSLOO / National Security Space Launch

Other Related Program Elements: N/A
Line Item MDAP/MAIS Code: 176

| Resource Summary | Prior Years | FY 2022 | FY 2023 | $\text { FY } 2024$ Base | $\begin{gathered} \text { FY } 2024 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \text { FY } 2024 \\ \text { Total } \end{gathered}$ | FY 2025 | FY 2026 | FY 2027 | FY 2028 | To Complete | Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Procurement Quantity (Units in Each) | 3 | 5 | 3 | 10 | - | 10 | 8 | 7 | 8 | 7 | - | 51 |
| Gross/Weapon System Cost (\$ in Millions) | 978.671 | 1,287.347 | 1,024.803 | 2,142.846 | - | 2,142.846 | 2,187.077 | 2,066.860 | 2,194.791 | 2,222.690 | 1,301.206 | 15,406.291 |
| Less PY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Net Procurement (P-1) (\$ in Millions) | 978.671 | 1,287.347 | 1,024.803 | 2,142.846 | - | 2,142.846 | 2,187.077 | 2,066.860 | 2,194.791 | 2,222.690 | 1,301.206 | 15,406.291 |
| Plus CY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Total Obligation Authority (\$ in Millions) | 978.671 | 1,287.347 | 1,024.803 | 2,142.846 | - | 2,142.846 | 2,187.077 | 2,066.860 | 2,194.791 | 2,222.690 | 1,301.206 | 15,406.291 |
| (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) | 326.224 | 257.469 | 341.601 | 214.285 | - | 214.285 | 273.385 | 295.266 | 274.349 | 317.527 | - | 302.084 |

## Description:



 certified Launch Vehicle (LV) providers.


 unique capabilities for NSS requirements that are beyond the scope of current commercial capability. "To Complete" projections include only known requirements at this time.


 certified provider can service the required orbit.


 and other efforts to develop new or repurpose existing capabilities.

Exhibit P-40, Budget Line Item Justification: PB 2024 Air Force
Appropriation / Budget Activity / Budget Sub Activity:
3022F: Procurement, Space Force / BA 01: Space Procurement, SF / BSA 10:

## P-1 Line Item Number / Title:

NSSL00 / National Security Space Launch Space Programs

| ID Code (A=Service Ready, B=Not Service Ready): A |  |  | Program Elements for Code B Items: N/A |  |  |  | Other Related Program Elements: N/A |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Line Item MDAP/MAIS Code: 176 |  |  |  |  |  |  |  |  |  |  |
| Exhibits Schedule |  |  |  |  | Prior Years | FY 2022 | FY 2023 | FY 2024 Base | FY 2024 OCO | FY 2024 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-5 | National Security Space Launch | P-5a, P-21 | A |  | 3/978.671 | 5/1,287.347 | 3/1,024.803 | 10/2,142.846 | - 1 - | 10/2,142.846 |
| P-40 | Total Gross/Weapon System Cost |  |  |  | 3/978.671 | 5/1,287.347 | 3/1,024.803 | 10/2,142.846 | 1 | 10/2,142.846 |

${ }^{*}$ 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 2024 NSSL procurement funding will acquire launch services to provide critical space support required to satisfy Department of Defense (DoD) warfighter, national security, and other US Government space lift missions while leveraging commercial innovation. Launch services include, but are not limited to, launch vehicle manufacturing, launch operations (tasks such as systems and factory engineering, program management, launch and range activities, and infrastructure), mission success incentives, recurring costs for Orbital Debris Mitigation Standard Practice, secondary payload adapters (i.e. multi-mission manifest adapters) and integration onto NSS or other USG agency procured launch services, launch propellants, independent mission assurance, evaluation and certification of potential New Entrants, early integration activities, studies and analysis, program office support and any other related activities to support mission requirements to rapidly respond to implement system resiliency and situational awareness necessary to operate in the contested space domain.

Launch services will be ordered under the Phase 2 contracts. Launch Service Support (LSS) is part of the Phase 2 contracts and will include NSS readiness, fleet surveillance, fleet mission assurance, and unique NSS infrastructure requirements (vertical integration, classified facilities, etc).

The Space Force is responsible for funding its own missions. Space Development Agency (SDA) launch services are procured under a separate Program Element. Generally, non-Space Force launch services are funded within their respective entities (e.g. NRO, Navy).

The Space Vehicle (SV) Program offices and other partners are responsible for funding mission unique requirements including hardware, integration and testing. Funding for mission unique requirements that span across NSSL and the SV Program Office will be shared between both organizations.

Funding for this exhibit is contained in PE 1203953SF.

## UNCLASSIFIED

Exhibit P-5, Cost Analysis: PB 2024 Air Force

## Appropriation / Budget Activity / Budget Sub Activity

3022F / 01 / 10
ID Code (A=Service Ready, B=Not Service Ready) : A

Date: March 2023
Item Number / Title [DODIC]:
National Security Space Launch


Remarks:


UNCLASSIFIED

| Exhibit P-5a, Procurement History and Planning: PB 2024 Air Force |  |  |  |  |  |  |  | Date: March 2023 |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity:$3022 F / 01 / 10$ |  |  |  | P-1 Line Item Number / Title: NSSLOO / National Security Space Launch |  |  |  | Item Number / Title [DODIC]: <br> National Security Space Launch |  |  |  |  |
| Cost Elements | 0 <br> c <br> O | FY | Contractor and Location | Method/Type or Funding Vehicle | Location of PCO | Award Date | Date of First Delivery | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Unit Cost (\$ M) | Specs Avail Now? | Date Revision Available | RFP Issue Date |
| Launch Services ${ }^{(\dagger)}$ |  | 2021 | SpaceX/ULA / CA/CO | Various | SSC, LA AFB, CA | Mar 2021 | Apr 2024 | 3 | 171.364 | Y |  | May 2019 |
| Launch Services ${ }^{(\dagger)}$ |  | 2022 | SpaceX/ULA / CA/CO | Various | SSC, LA AFB, CA | May 2022 | May 2024 | 5 | 151.904 | Y |  | May 2019 |
| Launch Services ${ }^{(\dagger)}$ |  | 2023 | SpaceX/ULA / CA/CO | Various | SSC, LA AFB, CA | May 2023 | May 2025 | 3 | 173.768 | Y |  | May 2019 |
| Launch Services ${ }^{(\dagger)}$ |  | 2024 | SpaceX/ULA / CA/CO | Various | SSC, LA AFB, CA | Jan 2024 | Jan 2026 | 10 | 163.256 | Y |  | May 2019 |

$\left.{ }^{( }\right)$) indicates the presence of a P-21

UNCLASSIFIED

| Exhibit P-21, Production Schedule: PB 2024 Air Force |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Date: March 2023 <br> Item Number / Title [DODIC]: <br> National Security Space Launch |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity:$3022 F / 01 / 10$ |  |  |  |  |  |  |  |  |  |  | P-1 Line Item Number / Title: NSSLOO / National Security Space Launch |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Cost Elements (Units in Each) |  |  |  |  |  | Fiscal Year 2021 |  |  |  |  |  |  |  |  |  |  |  | Fiscal Year 2022 |  |  |  |  |  |  |  |  |  |  |  | $\begin{aligned} & \text { B } \\ & \text { A } \\ & \text { L } \\ & \text { A } \\ & \text { C } \\ & \text { E } \end{aligned}$ |
|  |  |  |  | ACCEPT |  |  |  |  | Calendar Year 2021 |  |  |  |  |  |  |  |  |  |  |  | Calendar Year 2022 |  |  |  |  |  |  |  |  |  |
|  | FY | SERVICE | ${ }^{\text {PROC }}$ QTY | TO 1 OCT 2020 | $\begin{aligned} & \text { DUE } \\ & \text { DS OF } \\ & \text { ASOF } \end{aligned}$ | $\begin{aligned} & \mathrm{o} \\ & \mathrm{c} \\ & \mathrm{~T} \end{aligned}$ | N | D E C | $\begin{aligned} & \mathrm{J} \\ & \text { A } \\ & \mathrm{N} \end{aligned}$ | F E B | $\begin{aligned} & \text { M } \\ & A \\ & R \end{aligned}$ | A <br>  <br> P <br> R | M A Y | $\begin{aligned} & \mathrm{J} \\ & \mathrm{U} \\ & \mathrm{~N} \end{aligned}$ | J | A | $\begin{aligned} & \mathrm{s} \\ & \mathrm{E} \\ & \mathrm{P} \end{aligned}$ | O c T | $\begin{aligned} & \text { N } \\ & \text { O } \\ & \text { V } \end{aligned}$ | $\begin{aligned} & \mathrm{D} \\ & \mathrm{E} \\ & \mathrm{C} \end{aligned}$ | $\begin{aligned} & \text { J } \\ & \text { A } \\ & \text { N } \end{aligned}$ | $\begin{aligned} & \mathrm{F} \\ & \mathrm{E} \\ & \mathrm{~B} \end{aligned}$ | $\begin{aligned} & \text { M } \\ & \text { A } \\ & R \end{aligned}$ | A <br>  <br> $\mathbf{P}$ <br> R | M ${ }_{\text {M }}^{\text {A }}$ | J | J u L | A | $\underset{\text { en }}{\substack{\text { E } \\ \text { P }}}$ |  |
| Laun | Servic |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1 | 2021 | AF | 3 | 0 | 3 |  |  |  |  |  | A - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 3 |
| 1 | 2022 | AF | 5 | 0 | 5 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | A - | - | - | - | - | 5 |
| 1 | 2023 | AF | 3 | 0 | 3 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 3 |
| 1 | 2024 | AF | 10 | 0 | 10 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 10 |
|  |  |  |  |  |  | O c T | N | D E C | J A N | $\stackrel{\mathrm{F}}{\mathrm{E}}$ | M A R | A <br>  <br> $\mathbf{P}$ <br> R | M A Y | J U N | $\mathrm{J}_{\mathrm{J}}^{\mathrm{u}}$ | A | S E P | O c T | $\begin{aligned} & \hline \mathrm{N} \\ & \mathrm{O} \\ & \mathrm{~V} \end{aligned}$ | $\begin{aligned} & \hline \mathrm{D} \\ & \mathrm{E} \\ & \mathrm{C} \end{aligned}$ | J A N | $\begin{aligned} & \hline \mathrm{F} \\ & \mathrm{E} \\ & \mathrm{~B} \end{aligned}$ | M <br>  <br> R | A $\mathbf{p}$ R | M A Y | J N | ${ }_{\text {J }}^{\text {J }}$ | A G G | S E P |  |

UNCLASSIFIED

| Exhibit P-21, Production Schedule: PB 2024 Air Force |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Date: March 2023 <br> Item Number / Title [DODIC]: <br> National Security Space Launch |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3022F / 01 / 10 |  |  |  |  |  |  |  |  |  |  | P-1 Line Item Number / Title: NSSLOO / National Security Space Launch |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Cost Elements (Units in Each) |  |  |  |  |  | Fiscal Year 2023 |  |  |  |  |  |  |  |  |  |  |  | Fiscal Year 2024 |  |  |  |  |  |  |  |  |  |  |  | $\begin{aligned} & B \\ & A \\ & A \\ & A \\ & A \\ & N \\ & C \\ & E \end{aligned}$ |
|  |  |  |  | ACCEPT |  |  |  |  | Calendar Year 2023 |  |  |  |  |  |  |  |  |  |  |  | Calendar Year 2024 |  |  |  |  |  |  |  |  |  |
|  | FY | SERVICE | PROC QTY | $\begin{gathered} \text { TO } \\ \text { TOCT } \\ \text { OCT } \\ 2022 \end{gathered}$ | $\begin{gathered} \text { BAL } \\ \text { DUE } \\ \text { AS OF } \\ 1 \text { OCT } \end{gathered}$ | o c T | N O v | $\begin{aligned} & \mathrm{D} \\ & \mathrm{E} \\ & \mathrm{C} \end{aligned}$ | J A N | F E B | $\begin{aligned} & \text { M } \\ & A \\ & \text { R } \end{aligned}$ | A <br>  <br> R <br> R | M A Y | J U N | J | A | S E P | O c T | N | $\begin{aligned} & \mathrm{D} \\ & \mathrm{E} \\ & \mathrm{C} \end{aligned}$ | $\begin{aligned} & \text { J } \\ & \text { A } \end{aligned}$ | F E B | $\begin{aligned} & \text { M } \\ & \text { A } \\ & \text { R } \end{aligned}$ | $\begin{aligned} & \mathrm{A} \\ & \mathrm{P} \\ & \mathrm{P} \end{aligned}$ | M A Y | J | J u L | A U G | $\begin{aligned} & \mathrm{s} \\ & \mathrm{E} \\ & \mathrm{P} \end{aligned}$ |  |
| Laun | Servic |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1 | 2021 | AF | 3 | 0 | 3 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 |  | - | - | - | 1 | 0 |
| 1 | 2022 | AF | 5 | 0 | 5 | - | - | - | - | - | - | - | - | - | - |  |  | - | - | - | - | - | - | - |  |  |  |  | - | 3 |
| 1 | 2023 | AF | 3 | 0 | 3 |  |  |  |  |  |  |  | A - | - | - | - | - | - | - | - | - | - | - | . | - |  |  | - | - | 3 |
| 1 | 2024 | AF | 10 | 0 | 10 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | A - | - | - | - |  | - | - | - | - | 10 |
|  |  |  |  |  |  | O c T | N | D E c | J A N | F E B | $\begin{aligned} & \hline M \\ & \hline \\ & \hline \end{aligned}$ | A <br>  <br> P <br> R | ${ }_{\text {M }}^{\text {M }}$ | J U N | $\stackrel{\mathrm{J}}{\mathrm{u}}$ | A | S E P | O c T | N | $\begin{aligned} & \hline \mathrm{D} \\ & \mathrm{E} \\ & \mathrm{C} \end{aligned}$ | $\begin{aligned} & \hline J \\ & \text { A } \\ & \text { N } \end{aligned}$ | F | M <br>  <br> R | A <br>  <br> P <br> R | M A Y | J | J | A U G | S E P |  |

UNCLASSIFIED


UNCLASSIFIED

| Exhibit P-21, Production Schedule: PB 2024 Air Force |  |  |  |  |  |  |  |  |  | Date: March 2023 |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3022F / 01 / 10 |  |  |  |  | P-1 Line Item Number / Title: <br> NSSLOO / National Security Space Launch |  |  |  |  | Item Number / Title [DODIC]: <br> National Security Space Launch |  |  |
| $\begin{gathered} \text { MFR } \\ \text { Ref } \\ \# \\ \hline \end{gathered}$ | Manufacturer Name - Location | Production Rates (Each / Year) |  |  | Procurement Leadtime (Months) |  |  |  |  |  |  |  |
|  |  | MSR For 2024 | 1-8-5 For 2024 | MAX For 2024 | Initial |  |  |  | Reorder |  |  |  |
|  |  |  |  |  | ALT Prior to Oct 1 | $\begin{gathered} \text { ALT } \\ \text { After Oct } 1 \end{gathered}$ | Manufacturing PLT | Total After Oct 1 | $\begin{gathered} \text { ALT } \\ \text { Prior to Oct } 1 \end{gathered}$ | ALT <br> After Oct 1 | Manufacturing PLT | Total After Oct 1 |
| 1 | SpaceX/ULA - CA/CO | 10 | 10 | 10 | 1 | 4 | 24 | 28 | 0 |  | 0 | 0 |

"A" in the Delivery Schedule indicates the Contract Award Date.
Note: Due to space limitations, quantities in the Exhibit P-21 delivery calendar are truncated and rounded based on the maximum quantity in the calendar as follows. If the maximum quantity is less than or equal to than 9,999 , all quantities are shown as each. If the maximum quantity is between 10,000 and 999,999 all quantities are shown in thousands. If the maximum quantity is between $1,000,000$ and $999,999,999$ all quantities are shown in millions (rounded to the nearest thousand).If the maximum quantity is equal or greater than $1,000,000,000$ all quantities are shown in billions (rounded to the nearest million).

## THIS PAGE INTENTIONALLY LEFT BLANK

Appropriation / Budget Activity / Budget Sub Activity:
3022F: Procurement, Space Force / BA 01: Space Procurement, SF / BSA 10: Space Programs
ID Code (A=Service Ready, B=Not Service Ready): B
Program Elements for Code B Items: 1203913SF

## P-1 Line Item Number / Title:

NUDETS / NUDET Detection System

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

| Resource Summary | Prior <br> Years | FY 2022 | FY 2023 | $\text { FY } 2024$ <br> Base | $\begin{gathered} \text { FY } 2024 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \text { FY } 2024 \\ \text { Total } \end{gathered}$ | FY 2025 | FY 2026 | FY 2027 | FY 2028 | To Complete | Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Procurement Quantity (Units in Each) | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Cost (\$ in Millions) | - | 6.690 | 7.062 | 0.000 | - | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | - | 13.752 |
| Less PY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Net Procurement (P-1) (\$ in Millions) | - | 6.690 | 7.062 | 0.000 | - | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | - | 13.752 |
| Plus CY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Total Obligation Authority (\$ in Millions) | - | 6.690 | 7.062 | 0.000 | - | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | - | 13.752 |
| (The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.) |  |  |  |  |  |  |  |  |  |  |  |  |
| Initial Spares (\$ in Millions) | - | - | - | - | - | $\square$ | $\square$ | - | - | - | - | - |
| Flyaway Unit Cost (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Unit Cost (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |

## Description:




 and a classified mission.


 control segments. The AF directly funds the procurement of the USNDS 6 ground segment (described below).
 Maintenance dollars. USNDS payload integration onto GPS satellites is funded in the GPS Space Segment PE 1203265 SF for GPS III SVs and PE 1203269 SF for GPS IIIF SVs.




 authorities, commands, and forward users as well as Department of State for the Treaty Monitoring and Verification mission.
 meet information assurance requirements and hardware/software technology refreshes.


## Justification:

No FY 2024 funding requested.

## Appropriation / Budget Activity / Budget Sub Activity:

3022F: Procurement, Space Force / BA 01: Space Procurement, SF / BSA 10: Space Programs
ID Code (A=Service Ready, B=Not Service Ready): A
Program Elements for Code B Items: N/A
Other Related Program Elements: N/A
Line Item MDAP/MAIS Code: N/A

| Resource Summary | Prior <br> Years | FY 2022 | FY 2023 | $\text { FY } 2024$ Base | $\begin{gathered} \text { FY } 2024 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \text { FY } 2024 \\ \text { Total } \end{gathered}$ | FY 2025 | FY 2026 | FY 2027 | FY 2028 | To Complete | Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Procurement Quantity (Units in Each) | - | - | 6 | 12 | - | 12 | 12 | - | - | - | - | 30 |
| Gross/Weapon System Cost (\$ in Millions) | - | 7.406 | 42.464 | 56.482 | - | 56.482 | 56.052 | 11.846 | 0.000 | 0.000 | - | 174.250 |
| Less PY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Net Procurement (P-1) (\$ in Millions) | - | 7.406 | 42.464 | 56.482 | - | 56.482 | 56.052 | 11.846 | 0.000 | 0.000 | - | 174.250 |
| Plus CY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Total Obligation Authority (\$ in Millions) | - | 7.406 | 42.464 | 56.482 | - | 56.482 | 56.052 | 11.846 | 0.000 | 0.000 | - | 174.250 |
| (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) | - | - | 7.077 | 4.707 | - | 4.707 | 4.671 | - | - | - | - | 5.808 |

## Description:




 SATCOM (PTS) system.

 by international partners.


 Modem (A3M), and other stakeholders rely on PTES to provide PTW ground infrastructure. At FOC, PTES will provide worldwide PTW operations using up to all WGS satellites.

 etc.), equipment installation, and equipment testing.
 will reach FOC in FY 2028 providing robust PTW operations using commercial satellites in various orbits, to include GEO and Medium Earth Orbit (MEO).



## UNCLASSIFIED

Page 1 of 4
P-1 Line \#20
Volume 1-99

| Exhibit P-40, Budget Line Item Justification: PB 2024 Air Force |  |  |  | Date: March 2023 |
| :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3022F: Procurement, Space Force / BA 01: Space Procur Space Programs | rement, SF / BSA 10: | P-1 Line Item Number / Title: PTES00 / PTES HUB |  |  |
| ID Code (A=Service Ready, B=Not Service Ready): A $\quad$ Proser | Program Elements for Code B Items: N/A Ot |  |  | rogram Elements: N/A |
| Line Item MDAP/MAIS Code: N/A |  |  |  |  |
| PTES WGS capability at FOC. In FY 2025, 6 JHs were added to for the PTW Over Commercial efforts beginning in FY 2023 to support PTW over GEO commercial satellites and integration with the PTES system. |  |  |  |  |
| Procurement funds will also be used for Interim Contractor Support (ICS), to include purchase of initial spares and support equipment, to enable seamless RP transition into sustainmen |  |  |  |  |
| Space acquisition must respond with speed and agility to pacing and emerging adversary threats. Space Systems Command (SSC) has transformed the organization and implementation of space acquisition to an enterprise approach, maximizing innovation and resiliency, leveraging international, commercial, and mission partnerships, and managing program/project priorities according to an integrated unclassified/ classified enterprise space architecture. Expanding the appropriate acquisition authorities and contract mechanisms to deliver capability sooner, SSC will strategically execute experimentation, prototyping, risk reduction, and other efforts to develop new or repurpose existing capabilities. |  |  |  |  |
| Funding for this exhibit is contained in PE 1206760SF. This program has associated Research Development Test and Evaluation funding in PE 1206760SF. |  |  |  |  |

Exhibit P-40, Budget Line Item Justification: PB 2024 Air Force
Date: March 2023

## Appropriation / Budget Activity / Budget Sub Activity:

3022F: Procurement, Space Force / BA 01: Space Procurement, SF / BSA 10: Space Programs
ID Code (A=Service Ready, B=Not Service Ready): A $\quad$ Program Elements for Code B Items: N/A $\quad$ Other Related Program Elements: N/A
Line Item MDAP/MAIS Code: N/A

| Exhibits Schedule |  |  |  |  | Prior Years | FY 2022 | FY 2023 | FY 2024 Base | FY 2024 OCO | FY 2024 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 <br> (Each) I (\$ M) | 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) |
| P-40a | PTES HUB |  |  |  | - 1 - | - 17.406 | - 142.464 | - $/ 56.482$ | 1 | - 156.482 |
| P-40 | Total Gross/Weapon System Cost |  |  |  | - 1 - | - 17.406 | $6 / 42.464$ | 12 / 56.482 | - 1 - | 12 / 56.482 |

 Note: Totals in this Exhibit P-40 set may not be exact or sum exactly due to rounding.

## Justification:



 may include, but are not limited to, program office support, studies, technical analysis, etc.
 2025 quantity, 6 JHs were added for the PTW Over Commercial efforts beginning in FY 2023 to support PTW over GEO commercial satellites and integration with the PTES system.

UNCLASSIFIED

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Date: March 2023 <br> Aggregated Items Title: <br> PTES HUB |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity:$3022 \mathrm{~F} / 01 / 10$ |  |  |  |  |  |  |  | P-1 Line Item Number / Title: PTES00 / PTES HUB |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  | ior Yea |  | FY 2022 |  |  | FY 2023 |  |  | FY 2024 Base |  |  | FY 2024 OCO |  |  | FY 2024 Total |  |  |
| Item Number / Title [DODIC] | $\begin{aligned} & \text { ID } \\ & \text { CD } \end{aligned}$ | $\begin{aligned} & \text { MDAP/ } \\ & \text { MAIS } \\ & \text { Code } \end{aligned}$ | Unit Cost (\$ M) | $\underset{\text { (Each) }}{\text { Qty }}$ | Total Cost <br> (\$M) | Unit Cost (\$ M) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost (\$M) | Unit Cost (\$ M) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost <br> (\$ M) | Unit Cost (\$M) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost <br> (\$ M) | Unit Cost (\$ M) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost <br> (\$ M) | Unit Cost (\$ M) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost (\$M) |
| PTES HUB |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| PTES Ground | A |  | - | - | - | - | - | 7.406 | 7.077 | 6 | 42.464 | 4.707 | 12 | 56.482 | - | - |  | 4.707 | 12 | 56.482 |
| Subtotal: PTES HUB |  |  | - | - | - | - | - | 7.406 | - | - | 42.464 | - | - | 56.482 | - | - | - | - | - | 56.482 |
| Total |  |  | - | - | - | - | - | 7.406 | - | - | 42.464 | - | - | 56.482 | - | - | - | - | - | 56.482 |

Exhibit P-40, Budget Line Item Justification: PB 2024 Air Force
Date: March 2023

## Appropriation / Budget Activity / Budget Sub Activity:

3022F: Procurement, Space Force / BA 01: Space Procurement, SF / BSA 10: Space Programs

Program Elements for Code B Items: N/A

## P-1 Line Item Number / Title:

RSLP00 / Rocket Systems Launch Program

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

| Resource Summary | Prior <br> Years | FY 2022 | FY 2023 | $\text { FY } 2024$ Base | $\begin{gathered} \text { FY } 2024 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \text { FY } 2024 \\ \text { Total } \end{gathered}$ | FY 2025 | FY 2026 | FY 2027 | FY 2028 | To Complete | Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Procurement Quantity (Units in Each) | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Cost (\$ in Millions) | - | 30.429 | 39.145 | 74.848 | - | 74.848 | 72.840 | 67.589 | 69.305 | 70.759 | - | 424.915 |
| Less PY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Net Procurement (P-1) (\$ in Millions) | - | 30.429 | 39.145 | 74.848 | - | 74.848 | 72.840 | 67.589 | 69.305 | 70.759 | - | 424.915 |
| Plus CY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Total Obligation Authority (\$ in Millions) | - | 30.429 | 39.145 | 74.848 | - | 74.848 | 72.840 | 67.589 | 69.305 | 70.759 | - | 424.915 |

(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:


 Production Document approved 31 May 2016 supports the requirement for small spacelift capability (less than 8,000 Ibs to low Earth through geostationary transfer orbit).

 launch services and allows the Space Force the flexibility to manage dynamic manifest requirements as new launch service providers emerge.


 develop new or repurpose existing capabilities.

 specific launch vehicle. The requirements for small launch services are derived from multiple spacecraft requirements.

Funding for this exhibit is contained in PE 1206860SF.

| Exhibit P-40, Budget Line Item Justification: PB 2024 Air Force |  |  |  |  |  |  |  |  | Date: March 2023 |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: <br> 3022F: Procurement, Space Force / BA 01: Space Procurement, SF / BSA 10: Space Programs |  |  |  |  |  | P-1 Line Item Number / Title: <br> RSLP00 / Rocket Systems Launch Program |  |  |  |  |  |
| ID Cod | (A=Service Ready, B=Not Service Ready) | Program Elements for Code B Items: N/A |  |  |  |  | Other Related Program Elements: 1206860SF |  |  |  |  |
| Line Item MDAP/MAIS Code: N/A |  |  |  |  |  |  |  |  |  |  |  |
| Exhibits Schedule |  |  |  |  | Prior Years | FY 2022 | FY 2023 | FY 2024 Base |  | FY 2024 OCO | FY 2024 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 | Rocket Systems Launch Program |  |  |  | - 1- | - 130.429 |  | - 174.848 |  | - 1- | - 174.848 |
| P-40 | Total Gross/Weapon System Cost |  |  |  | - 1- | - 130.429 | $-\quad / 39.145$ |  | 174.848 | - 1- | - 174.848 |

 Note: Totals in this Exhibit P-40 set may not be exact or sum exactly due to rounding.

## Justification:


 to operate in the contested space domain. Activities may include, but are not limited to, program office support, studies, technical analysis, etc.

UNCLASSIFIED

| Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2024 Air Force ${ }^{\text {a }}$ D |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Date: March 2023 <br> Aggregated Items Title: <br> Rocket Systems Launch Program |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3022F / 01 / 10 |  |  |  |  |  |  |  | P-1 Line Item Number / Title: <br> RSLP00 / Rocket Systems Launch Program |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  | ior Years |  | FY 2022 |  |  | FY 2023 |  |  | FY 2024 Base |  |  | FY 2024 OCO |  |  | FY 2024 Total |  |  |
| Item Number / Title [DODIC] |  | $\begin{aligned} & \text { MDAPI/ } \\ & \text { MAIS } \\ & \text { Code } \end{aligned}$ | Unit Cost (\$ M) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | Total Cost (\$ M) | Unit Cost (\$ M) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | Total Cost (\$ M) | Unit Cost (\$ M) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | Total Cost <br> (\$ M) | Unit Cost (\$ M) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | Total Cost <br> (\$ M) | Unit Cost (\$ M) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost <br> (\$M) | $\begin{array}{\|c} \substack{\text { Unit Cost } \\ (\$ M)} \\ \hline \end{array}$ | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | Total Cost <br> (\$ M) |
| Small Launch Services |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Small Launch Services | A |  | - | - | - |  | - | 1.052 | - | - | 29.696 | - | - | 62.990 | - | - | - | - | - | 62.990 |
| Congressional Add | A |  | - | - | - | - | - | 20.000 | - | - | - | - | - | - | - | - | - | - | - | - |
| Subtotal: Small Launch Services |  |  | $\cdot$ | - | - | $\cdot$ | - | 21.052 | - | - | 29.696 | - | - | 62.990 | - | $\cdot$ | - | $\cdot$ | - | 62.990 |
| Mission Assurance |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Mission Assurance | A |  | - | - | - | - | - | 2.652 | - | - | 2.700 | - | - | 4.858 | - | - | - | - | - | 4.858 |
| Subtotal: Mission Assurance |  |  | - | - | - | - | - | 2.652 | - | - | 2.700 | - | - | 4.858 | - | - | - | - | - | 4.858 |
| Launch Support |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Launch Support | A |  | - | - | - | - | - | 6.725 | - | - | 6.749 | - | - | 7.000 | - | - | - | - | - | 7.000 |
| Subtotal: Launch Support |  |  | - | - | - | - | - | 6.725 | - | - | 6.749 | - | - | 7.000 | - | - | - | $\cdot$ | - | 7.000 |
| Total |  |  | - | - | - | - | - | 30.429 | - | - | 39.145 | - | - | 74.848 | - | - | - | - | - | 74.848 |

## THIS PAGE INTENTIONALLY LEFT BLANK

Exhibit P-40, Budget Line Item Justification: PB 2024 Air Force

## Appropriation / Budget Activity / Budget Sub Activity:

3022F: Procurement, Space Force / BA 01: Space Procurement, SF / BSA 10: Space Programs

| ID Code (A=Service Ready, B=Not Service Ready): |  |  | Program Ele | nts for Cod | B Items: |  |  | Other Relat | Program E | ments: N/A |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Line Item MDAP/MAIS Code: N/A |  |  |  |  |  |  |  |  |  |  |  |  |
| Resource Summary | Prior <br> Years | FY 2022 | FY 2023 | FY 2024 Base | $\begin{gathered} \text { FY } 2024 \\ \text { OCO } \end{gathered}$ | $\text { FY } 2024$ Total | FY 2025 | FY 2026 | FY 2027 | FY 2028 | To Complete | Total |
| Procurement Quantity (Units in Each) | - | - | 7 | 5 | - | 5 | 4 | 3 | 2 | 2 | - | 23 |
| Gross/Weapon System Cost (\$ in Millions) | - | 0.000 | 746.288 | 529.468 | - | 529.468 | 498.405 | 412.147 | 241.559 | 246.626 | - | 2,674.493 |
| Less PY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Net Procurement (P-1) (\$ in Millions) | - | 0.000 | 746.288 | 529.468 | - | 529.468 | 498.405 | 412.147 | 241.559 | 246.626 | - | 2,674.493 |
| Plus CY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Total Obligation Authority (\$ in Millions) | - | 0.000 | 746.288 | 529.468 | - | 529.468 | 498.405 | 412.147 | 241.559 | 246.626 | - | 2,674.493 |
| (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) | - | - | 106.613 | 105.894 | - | 105.894 | 124.601 | 137.382 | 120.780 | 123.313 | - | 116.282 |

## Description:

The Space Development Agency (SDA), established in 2019, has a mission that begins and ends with the war-fighter. SDA orchestrates the development, fielding, and operation of the Department of Defense's (DoD's) future threat-driven Proliferated Warfighter Space Architecture (PWSA) and uses novel approaches to accelerate the delivery of military space capabilities necessary to ensure U.S. technological and military advantage in space for national defense. SDA will deliver capabilities to joint war-fighting forces in two-year tranches. SDA began to procure launch services for Tranche 1 satellites in Fiscal Year (FY) 2022 for data transport capability and will procure launch services in FY 2023 - FY 2027 for Tranche 1 and future Tranche capabilities.

Exhibit P-40, Budget Line Item Justification: PB 2024 Air Force

## Appropriation / Budget Activity / Budget Sub Activity: <br> 3022F: Procurement, Space Force / BA 01: Space Procurement, SF I BSA 10:

## P-1 Line Item Number / Title:

SDALCH / Space Development Agency Launch

## Space Programs

| ID Code (A=Service Ready, B=Not Service Ready): A |  |  | Program Elements for Code B Items: N/A |  |  |  | Other Related Program Elements: N/A |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Line Item MDAP/MAIS Code: N/A |  |  |  |  |  |  |  |  |  |  |
| Exhibits Schedule |  |  |  |  | Prior Years | FY 2022 | FY 2023 | FY 2024 Base | FY 2024 OCO | FY 2024 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-5 | Space Development Agency Launch |  | A |  | - 1 - | - 10.000 | 7/746.288 | 5/529.468 | - 1 - | 5/529.468 |
| P-40 | Total Gross/Weapon System Cost |  |  |  | - 1 - | - 10.000 | 7/746.288 | 5/529.468 | 1 | 5/529.468 |

${ }^{*}$ 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:

 Tranche 1 capabilities. SDALCH was also increased by $\$ 216.000$ million as a result of Congressional Directed Transfer from SDA's RDT\&E PE 1206448SF.

FY 2022 funded one launch service for Tranche 1 under the United States Space Force (USSF) National Security Space Launch (NSSL) program for Tranche 1 capabilities.
FY 2023 funding procures launch services for seven launches under the USSF NSSL program for delivery of Tranche 1 capabilities.
FY 2024 funding will procure launch services for five launches under the USSF NSSL program for delivery of Tranche 1 and Tranche 2 capabilities.



 operations.

## UNCLASSIFIED



Remarks:
SDA will utilize the United States Space Force (USSF) National Security Space Launch (NSSL) services. The funding represents SDA's contribution to the cost of those services.

## THIS PAGE INTENTIONALLY LEFT BLANK

Exhibit P-40, Budget Line Item Justification: PB 2024 Air Force
Date: March 2023

## Appropriation / Budget Activity / Budget Sub Activity:

3022F: Procurement, Space Force / BA 01: Space Procurement, SF / BSA 10: Space Programs
ID Code (A=Service Ready, B=Not Service Ready):
Program Elements for Code B Items: 1203906SF
Other Related Program Elements: 1203699SF
Line Item MDAP/MAIS Code: N/A

| Resource Summary | Prior <br> Years | FY 2022 | FY 2023 | $\begin{gathered} \text { FY } 2024 \\ \text { Base } \end{gathered}$ | $\begin{gathered} \text { FY } 2024 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \text { FY } 2024 \\ \text { Total } \end{gathered}$ | FY 2025 | FY 2026 | FY 2027 | FY 2028 | To Complete | Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Procurement Quantity (Units in Each) | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Cost (\$ in Millions) | 11.852 | 56.325 | 68.257 | 166.596 | - | 166.596 | 78.191 | 53.598 | 46.883 | 47.831 | - | 529.533 |
| Less PY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Net Procurement (P-1) (\$ in Millions) | 11.852 | 56.325 | 68.257 | 166.596 | - | 166.596 | 78.191 | 53.598 | 46.883 | 47.831 | - | 529.533 |
| Plus CY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Total Obligation Authority (\$ in Millions) | 11.852 | 56.325 | 68.257 | 166.596 | - | 166.596 | 78.191 | 53.598 | 46.883 | 47.831 | - | 529.533 |
| (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 budget line covers both new and on-going modification efforts for space equipment and systems. Modification installation funding is budgeted in the year the installation occurs.


 and other efforts to develop new or repurpose existing capabilities.

The following Program Elements are represented in this Budget Line Item:
PE 1203160SF DEFENSE METEOROLOGICAL SATELLITE PROGRAM (DMSP):





 is intended to ensure the DC3GS remains viable and serviceable to support DMSP while it remains in flight.

PE 1203165SF NAVSTAR GPS (SPACE AND CONTROL SEGMENTS):

## Appropriation / Budget Activity / Budget Sub Activity: <br> 3022F: Procurement, Space Force / BA 01: Space Procurement, SF I BSA 10:

 Space ProgramsID Code (A=Service Ready, B=Not Service Ready):
Program Elements for Code B Items: 1203906SF
Other Related Program Elements: 1203699SF

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






 Military GPS User Equipment (MGUE).

## PE 1203699SF Shared Early Warning System (SEWS):






 Defense Instruction 8500.1 (DODI 8500.1).

PE 1203873SF Ballistic Missile Defense Radars (BMD Radars):

 detected by most other SSN tracking assets.







 difficult to maintain on a 45-year-old radar due to non-availability of replacement parts. Subsystems are no longer supported by the original

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

PE 1203906SF Cheyenne Mountain Complex:

## Appropriation / Budget Activity / Budget Sub Activity: <br> 3022F: Procurement, Space Force / BA 01: Space Procurement, SF / BSA 10:

 Space ProgramsID Code (A=Service Ready, B=Not Service Ready):
Program Elements for Code B Items: 1203906SF
Other Related Program Elements: 1203699SF

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





 and missile defense missions. It provides Nuclear C2 and detonation detection.

PE 1203909SF Ballistic Missile Early Warning System (BMEWS):



 Center, and the National Air and Space Intelligence Center mitigating the significantly increasing potential for collisions with national assets, including manned space platforms.


 unacceptable mission downtime in order to troubleshoot and repair. Funding may be used to address Diminishing Manufacturing Sources (DMS) issues.

PE 1203912 SF SEA-LAUNCHED BALLISTIC MISSILE (SLBM) RADAR WARNING SYSTEM:


 Center, Alternate Space Control Center, and the Joint Intelligence Center. The sensors have an operational availability requirement of 98 percent.




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

PE 1203940SF Space Situation Awareness Operations (SSAO):







## Appropriation / Budget Activity / Budget Sub Activity: <br> 3022F: Procurement, Space Force / BA 01: Space Procurement, SF / BSA 10:

## P-1 Line Item Number / Title: <br> SPCMOD / Space Mods

## Space Programs

ID Code (A=Service Ready, B=Not Service Ready): Program Elements for Code B Items: 1203906SF Other Related Program Elements: 1203699SF

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

PE 1203940SF Space Situation Awareness Operations (SSAO):



 management. This solar data is also used in the prediction of increases or decreases in solar activity.

PE 1203940SF Space Situation Awareness Operations (SSAO):


 Application Layer consists of a series of Threat Warning and C2 applications at multiple classification levels which enable monitoring, and tactical command and control of the network.

PE 1205111SF Weather Service:


 (AFWWS).

Exhibit P-40, Budget Line Item Justification: PB 2024 Air Force
Date: March 2023

## Appropriation / Budget Activity / Budget Sub Activity:

3022F: Procurement, Space Force / BA 01: Space Procurement, SF I BSA 10: Space Programs

|  |  |  | ID Code (A=Service Ready, B=Not Service Ready): |
| :--- | :--- | :--- | :--- |
| Program Elements for Code B Items: 1203906SF | Other Related Program Elements: 1203699SF |  |  |

Line Item MDAP/MAIS Code: N/A

| Exhibits Schedule |  |  |  |  | Prior Years | FY 2022 | FY 2023 | FY 2024 Base | FY 2024 OCO | FY 2024 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 | NAVSTAR Global Positioning |  |  |  | - 10.000 | - 10.081 | - 11.379 | - 10.000 | - 10.000 | - 10.000 |
| P-40a | Shared Early Warning System (SEWS) |  |  |  | - 1 - | - 10.363 | - 10.384 | - 10.385 | - 1 | - 10.385 |
| P-40a | Ballistic Missile Defense Radars |  |  |  | 1 | - 136.622 | - /18.116 | - 1 - | - 1 | 1 |
| P-3a | 1 / Ballistic Missile Defense Radars (Reliability \& Maintainability) |  | A |  | - 1 - | - 10.000 | - 10.000 | - 151.779 | - 10.000 | - 151.779 |
| P-40a | Cheyenne Mountain Complex |  |  |  | - 12.115 | - 10.587 | - 10.000 | - 10.000 | - 10.000 | - 10.000 |
| P-40a | Cheyenne Mountain Complex |  |  |  | 1 | - 1 - | - 10.104 | - 10.103 | - 1 | - 10.103 |
| P-40a | Ballistic Missile Early Warning |  |  |  | - 18.439 | - 10.000 | - 10.000 | - 14.946 | - 10.000 | - 14.946 |
| P-3a | 1 / Ballistic Missile Early Warning (Reliability \& Maintainability) |  | A |  | 1 - | - 10.000 | - 10.000 | - /11.829 | - 10.000 | - /11.829 |
| P-3a | 2 / Ballistic Missile Early Warning (Reliability \& Maintainability) |  | A |  | 1 - | - 10.000 | - 10.000 | - 120.544 | - 10.000 | - 120.544 |
| P-40a | Ballistic Missile Early Warning |  |  |  | 1 - | - /18.066 | - 129.119 | - 164.470 | - 1 | - 164.470 |
| P-40a | Submarine-Launched Ballistic Missile |  |  |  | - 10.798 | - 10.000 | - 10.000 | - 10.000 | - 10.000 | - 10.000 |
| P-3a | 1/PARCS Block 02 (Reliability \& Maintainability) |  | A |  | 10.500 | - 10.606 | - 13.995 | - 16.466 | - 10.000 | - 16.466 |
| P-40a | Space Situational Awareness Operations |  |  |  | - 1- | - 1- | - / 13.888 | - 15.300 | - 1 | - 15.300 |
| P-40a | Weather Service |  |  |  | 1 | 1 - | - /1.272 | - / 0.774 | - 1 | - 10.774 |
| P-40 | Total Gross/Weapon System Cost |  |  |  | - / 11.852 | - 156.325 | - 168.257 | - /166.596 | - 1 | - /166.596 |
| Exhibits Schedule |  |  |  |  | FY 2025 | FY 2026 | FY 2027 | FY 2028 | To Complete | 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 | NAVSTAR Global Positioning |  |  |  | - 10.000 | - 10.000 | - 10.000 | - 10.000 | - 10.000 | - 11.460 |
| P-40a | Shared Early Warning System (SEWS) |  |  |  | 1 | 1 | - 1 | - 1 | - 1 | - 1 |
| P-40a | Ballistic Missile Defense Radars |  |  |  | 1 | 1 - | - 1 - | - 1 - | - 1 | - 1 - |
| P-3a | 1 / Ballistic Missile Defense Radars (Reliability \& Maintainability) |  | A |  | - / 30.121 | - 17.865 | - 10.000 | - 10.000 | - 1 | - 189.765 |
| P-40a | Cheyenne Mountain Complex |  |  |  | - 10.000 | - 10.000 | - 10.000 | - 10.000 | - 10.000 | - 12.702 |
| P-40a | Cheyenne Mountain Complex |  |  |  | 1 | 1 | - $/$ - | - 1 - | - 1 - | - 1 |
| P-40a | Ballistic Missile Early Warning |  |  |  | - /18.000 | - /14.438 | - 121.803 | - / 36.801 | - 10.000 | - / 104.427 |
| P-3a | 1 / Ballistic Missile Early Warning (Reliability \& Maintainability) |  | A |  | - 10.100 | - 10.300 | - 10.000 | - 10.000 | - 1 | - 112.229 |
| P-3a | 2 / Ballistic Missile Early Warning (Reliability \& Maintainability) |  | A |  | - /19.269 | - 120.705 | - /14.545 | - 10.300 | - 1 | - 175.363 |
| P-40a | Ballistic Missile Early Warning |  |  |  | - 1 - | - 1 - | - 1 - | - 1 - | - 1 - | - 1 - |
| P-40a | Submarine-Launched Ballistic Missile |  |  |  | - 10.000 | - 10.000 | - 10.000 | - 10.000 | - 10.000 | - 10.798 |
| P-3a | 1 / PARCS Block 02 (Reliability \& Maintainability) |  | A |  | - 16.330 | - 15.797 | - 15.919 | - 16.018 | - 1 | - / 35.631 |
| P-40a | Space Situational Awareness Operations |  |  |  | 1 | - 1 | - 1 | - 1 | - | 1 |
| P-40a | Weather Service |  |  |  | - 1 | - 1 - | - 1 - | - 1 - | - 1 | - 1 - |
| P-40 | Total Gross/Weapon System Cost |  |  |  | - 178.191 | - 153.598 | - /46.883 | - / 47.831 | - 1 - | - 1529.533 |

## Appropriation / Budget Activity / Budget Sub Activity: <br> 3022F: Procurement, Space Force / BA 01: Space Procurement, SF I BSA 10:

 Space Programs| ID Code (A=Service Ready, B=Not Service Ready): | Program Elements for Code B Items: 1203906SF | Other Related Program Elements: 1203699SF |
| :---: | :---: | :---: |
| Line Item MDAP/MAIS Code: N/A |  |  |
|  |  |  |

 Note: Totals in this Exhibit P-40 set may not be exact or sum exactly due to rounding.

## Justification:

This program, Space Mods P-40A Category BPP Block 01 Update Item Array Group Drivers, is a new start.
This program, Space Mods P-40A Category Thule A8 Repair Item J-Plant HEMP Shielding, is a new start.
This program, Space Mods P-40A Category Thule A8 Repair Item Power Generation and Distro System, is a new start.
This program, 1203909SF, P-3A Mod BMEWS-UEWR-Block-04, Ballistic Missile Early Warning, is a new start
This program, 1203909SF, P-3A Mod BMEWS-UEWR-Block-05, Ballistic Missile Early Warning (BMEWS), is a new start.
This program, 1203909SF, P-3A Mod BMEWS-UEWR-Block-06, Ballistic Missile Early Warning, is a new start.
Defense Meteorological Satellite Program (SPACE):
PE 1203160SF: No FY 2024 funding requested.
NAVSTAR Global Positioning (P-40a):
FY 2023 funding procures GPS Architecture Evolution Plan (AEP), GPS Information Network (GIN), and Launch Anomaly Resolution and Disposal Operations (LADO) commercial equipment that has become obsolete/unsupportable or requires upgrades. Funding will procure equipment for the OCS ground sites including the Master Control Station (MCS), Alternate Master Control Station (AMCS), four Ground Antennas (GAs), six Monitor Stations (MSs), a contractor lab facility, and the Telecommunications Simulator Test Set (TSTS). Modifications include required procurement, nonrecurring engineering, installation, testing, configuration management, security, quality assurance and technical documentation. Funding also procures cybersecurity enhancements to mitigate shortfalls in the legacy system. Funding sustains OCS until OCX transitions to operations, to include support for GPS III and fielding of MGUE. Rapidly respond to implement system resiliency and situational awareness necessary to operate in the contested space domain. Activities may include, but are not limited to, program office support, studies, technical analysis, etc.

This effort is funded in PE 1203165SF NAVSTAR GPS (Space and Control Segments).

* "NAVSTAR GPS: PE 1203165SF: No FY 2024 funding requested."

Shared Early Warning System (SEWS) (P-40a):
FY 2024 will fund ongoing program support costs for SEWS modification efforts and will fund capital equipment replacement to replace outdated components such as, but not limited to, virtual processors, routers, intrusion detection software, network logging software, and other material solutions required for operational and cybersecurity continuity. Due to the limited spares demand rates, and indefinite system lifespan, life-of-type buys may be required to support this weapon system. SEWS utilizes both COTS and Government Off-the-Shelf (GOTS) equipment to comply with emerging threat capability requirements. Rapidly respond to implement system resiliency and situational awareness necessary to operate in the contested space domain. Activities may include, but are not limited to, program office support, studies, technical analysis, etc.

This effort is funded in PE 1203699 S Shared Early Warning System (SEWS).
Ballistic Missile Defense Radars (P-40a):

## Appropriation / Budget Activity / Budget Sub Activity: <br> 3022F: Procurement, Space Force / BA 01: Space Procurement, SF / BSA 10:

 Space ProgramsID Code (A=Service Ready, B=Not Service Ready):
Program Elements for Code B Items: 1203906SF
Other Related Program Elements: 1203699SF

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





 to operate in the contested space domain. Activities may include, but are not limited to, program office support, studies, technical analysis, etc.

This Effort is funded in PE 1203873SF - Ballistic Missile Defense Radars (BMDR)
Cheyenne Mountain Complex (P-40a):



 resiliency and situational awareness necessary to operate in the contested space domain. Activities may include, but are not limited to, program office support, studies, technical analysis, etc.

This effort is funded in PE 1203906SF - Cheyenne Mountain Complex.
Ballistic Missile Early Warning System (BMEWS)/PAVE PHASED ARRAY WARNING SYSTEM (PAVE PAWS) (BPP) Block 00, Block 01, Block 03, Block 04 , Block 05 and Block 06 (P-40a):


 support, studies, technical analysis, etc.







 support, studies, technical analysis, etc.


 situational awareness necessary to operate in the contested space domain. Activities may include, but are not limited to, program office support, studies, technical analysis, etc.

## Appropriation / Budget Activity / Budget Sub Activity: <br> 3022F: Procurement, Space Force / BA 01: Space Procurement, SF I BSA 10:

 Space ProgramsID Code (A=Service Ready, B=Not Service Ready):
Program Elements for Code B Items: 1203906SF
Other Related Program Elements: 1203699SF

## P-1 Line Item Number / Title: <br> SPCMOD / Space Mods

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




 domain. Activities may include, but are not limited to, program office support, studies, technical analysis, etc.




 awareness necessary to operate in the contested space domain. Activities may include, but are not limited to, program office support, studies, technical analysis, etc.

This effort is funded in PE 1203909SF Ballistic Missile Early Warning System (BMEWS) and PE 1203912SF Sea Launched Ballistic Missile (SLBM) Detection and Warning System.
Perimeter Acquisition Radar Attack Characterization System (PARCS) Block 02 (P-3a):






 etc.

The effort is funded in PE 1203912SF Sea Launched Ballistic Missile (SLBM) Detection and Warning System.
Thule A8 Repair (P-40a):
Thule A8 Repair: FY 2024 funding will upgrade the Thule radar power generation and distribution system to ensure power stability of the UEWR radar.
This effort is funded in PE 1203909SF Ballistic Missile Early Warning System (BMEWS).
Ionospheric Ground Sensors (IGS) (P-40a):
IGS: FY 2024 funding will complete one NEXION site feasibility survey and procurement/installation of one NEXION sensor to support space domain awareness (SDA).
The effort is funded in PE 1203940 SF Space Situation Awareness Operations (SSAO).
TAPOUT (P-40a):

| Appropriation / Budget Activity / Budget Sub Activity: | P-1 Line Item Number / Title: |
| :--- | :--- |
| 3022F: Procurement, Space Force / BA 01: Space Procurement, SF / BSA 10: | SPCMOD / Space Mods |
| Space Programs |  |


| ID Code (A=Service Ready, $B=$ Not Service Ready $):$ | Program Elements for Code B Items: 1203906SF | Other Related Program Elements: 1203699SF |
| :--- | :--- | :--- |

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

TAPOUT: FY 2024 funding will procure spares, site-preparation, leasing expenses and shipping of peripheral Information Technology (IT) and optical equipment.
The effort is funded in PE 1203940SF Space Situation Awareness Operations.
Solar Electro-Optical Network (SEON) (P-40a):
SEON: FY 2024 funding will start the work required to remote the operations and the analysis of the RSTN data to decrease the manpower required at each solar site and modernize the RSTN technology. Continued work on the installation and transportation of the new RIMS pedestals. Funding enables rapid response to implement system resiliency and situational awareness necessary to operate in the contested space domain. Activities may include, but are not limited to program office support, studies, technical analysis, prototyping, etc.

The effort is funded in PE 1203940SF Space Situation Awareness Operations.
AN/UMQ-13 Meteorological Data Station (MARK IV-B) (P-40a):
MARK IV-B: FY 2024 funding will procure one radome to protect MARK IV-B assets at Kapaun Air Base (AB), Germany, from adverse weather and corrosive elements. It will also fund installation of the procured radome as well as installing another previously-stored radome which had been purchased in 2021. The current radomes at Kapaun AB are over 20 years old and are approaching end of life.

The effort is funded in PE 1205111SF Weather Service.
PE 1208736SF STARCOM Range and Aggressors:
This effort is a new start in FY23. Funding in this program provides realistic and relevant threat replication, through Commercial off-the-shelf (COTS) GPS and SATCOM equipment. Current equipment is over 10 years old, failing, antiquated and therefore does not accurately replicate existing adversary threats due to system limitations. Procurement funding will provide a $166 \%$ increase SATCOM availability and $120 \%$ increase in GPC electronic attack assets used to replicate adversary counter-space operations in support of Joint training audiences. Funds provide recapitalization of five SATCOM equipment assets and eight GPS assets within FY23-25; FY26 and beyond provides a steady-state sustainment and replacement cycle for both SATCOM and GPS assets. Without funding, the space aggressors are at risk of significant degradation in their threat replication capabilities. Aging equipment will prevent the space aggressors from providing a realistic threat environment and degrade our ability to train joint and coalition partners in a contested, degraded, operationally-limited space environment.

Efforts with funding starting in FY 2025 through FY 2028 are summarized on the P-40. Not all details of this funding are included in this P-40 exhibit set. A summary of the excepted details is as follows:
${ }^{(a)}$ FY 2025 Cost Delta: 4.371 million
${ }^{(b)}$ FY 2026 Cost Delta: 4.493 million
${ }^{\text {(c) }}$ FY 2027 Cost Delta: 4.616 million
${ }^{\text {(d) }}$ FY 2028 Cost Delta: 4.712 million
${ }^{(e)}$ FY Total Cost Delta: 207.158 million

UNCLASSIFIED

| Exhibit P-40a, Budget Item Justification For Aggregated Modification Items: PB 2024 Air Force |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Date: March 2023 |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3022F / 01 / 10 |  |  |  |  |  |  |  | P-1 Line Item Number / Title: <br> SPCMOD / Space Mods |  |  |  |  |  |  |  | Aggregated Modification Items Title: NAVSTAR Global Positioning |  |  |  |  |
|  | $\begin{aligned} & \mathrm{ID} \\ & \mathrm{CD} \end{aligned}$ | MDAP/ MAIS Code | Prior Years |  |  | FY 2022 |  |  | FY 2023 |  |  | FY 2024 Base |  |  | FY 2024 OCO |  |  | FY 2024 Total |  |  |
| Item Number / Title |  |  | Unit Cost (\$ M) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost (\$ M) | Unit Cost (\$ M) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost <br> (\$ M) | Unit Cost (\$ M) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost <br> (\$ M) | Unit Cost (\$ M) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost <br> (\$ M) | Unit Cost (\$ M) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost <br> (\$ M) | Unit Cost (\$ M) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost <br> (\$ M) |
| NAVSTAR-1 / NAVSTAR GPS-OCS COTS UPGRADE |  |  | - | - | - | - - | - | 0.081 | - | - | 1.379 | - | - | - | - | - | - | - | - | - |
| Total |  |  | - | - | 0.000 | - | - | 0.081 | - | - | 1.379 | - | - | 0.000 | - | - | 0.000 | - | - | 0.000 |
|  |  |  | FY 2025 |  |  | FY 2026 |  |  | FY 2027 |  |  | FY 2028 |  |  | To Complete |  |  | Total Cost |  |  |
| Item Number / Title | $\begin{aligned} & \text { ID } \\ & \mathrm{CD} \end{aligned}$ | MDAP/ <br> MAIS <br> Code | Unit Cost (\$ M) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost (\$ M) | Unit Cost (\$ M) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost <br> (\$ M) | Unit Cost (\$ M) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost <br> (\$ M) | Unit Cost (\$ M) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost (\$ M) | Unit Cost (\$ M) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost <br> (\$ M) | Unit Cost (\$ M) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost <br> (\$M) |
| NAVSTAR-1 / NAVSTAR GPS-OCS COTS UPGRADE |  |  | - | - | - | - - | - | - . | - | - | - | - - | - | - | - | - | - | - | - | 1.460 |
| Total |  |  | - | - | 0.000 | - | - | - 0.000 | - | - | 0.000 | - | - | 0.000 | - | - | 0.000 | - | - | 1.460 |

Note: Subtotals or Totals in this Exhibit P-40a may not be exact or sum exactly, due to rounding.

## Modification Information:

| Item Number / Title | Models of Systems Affected | Modification Type |
| :--- | :--- | :--- |
| NAVSTAR-1 / NAVSTAR GPS-OCS <br> COTS UPGRADE | Blackhawk and IIR Flight Nav Systems | Capability Improvement |

UNCLASSIFIED

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Date: March 2023 <br> Aggregated Items Title: <br> Shared Early Warning System (SEWS) |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3022F / 01 / 10 |  |  |  |  |  |  |  | P-1 Line Item Number / Title: SPCMOD / Space Mods |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  | ior Yea |  | FY 2022 |  |  | FY 2023 |  |  | FY 2024 Base |  |  | FY 2024 OCO |  |  | FY 2024 Total |  |  |
| Item Number / Title [DODIC] | $\begin{aligned} & \mathrm{ID} \\ & \mathrm{CD} \end{aligned}$ | $\begin{array}{\|l\|} \text { MDAP/I } \\ \text { MAIS } \\ \text { Code } \end{array}$ | Unit Cost (\$ M) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | Total Cost (\$ M) | Unit Cost (\$ M) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | Total Cost (\$ M) | Unit Cost <br> (\$ M) | $\begin{gathered} \text { Qty } \\ (\text { (Each) } \end{gathered}$ | Total <br> Cost <br> (\$ M) | Unit Cost (\$ M) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | Total Cost <br> (\$ M) | Unit Cost (\$ M) | $\begin{gathered} \text { Qty } \\ (\text { (Each) } \end{gathered}$ | Total Cost <br> (\$ M) | Unit Cost (\$ M) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | Total Cost <br> (\$ M) |
| SEWS |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Outdated Component Replacement Modification | A |  | - | - | - | 0.363 |  | 10.363 | 0.384 | 1 | 0.384 | 0.385 | 1 | 0.385 | - | - | - | 0.385 | 1 | 0.385 |
| Subtotal: SEWS |  |  | - | - | - | - | - | 0.363 | - | - | 0.384 | - | - | 0.385 | - | - | - | - | - | 0.385 |
| Total |  |  | - | - | - | - |  | 0.363 | - | $\cdot$ | 0.384 | - | - | 0.385 | - | - | $\cdot$ | - | - | 0.385 |

UNCLASSIFIED


Note: Subtotals or Totals in this Exhibit P-40a may not be exact or sum exactly, due to rounding.

Exhibit P-3a, Individual Modification: PB 2024 Air Force

## Appropriation / Budget Activity / Budget Sub Activity:

## 3022F / 01 / 10

## Date: March 2023

## Modification Number / Title:

1 / Ballistic Missile Defense Radars

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

P-1 Line Item Number / Title: SPCMOD / Space Mods

MDAP/MAIS Code:

| Resource Summary | Prior <br> Years | FY 2022 | FY 2023 | FY 2024 Base | $\begin{gathered} \text { FY } 2024 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \text { FY } 2024 \\ \text { Total } \end{gathered}$ | FY 2025 | FY 2026 | FY 2027 | FY 2028 | To Complete | Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Procurement Quantity (Units in Each) | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Cost (\$ in Millions) | - | 0.000 | 0.000 | 51.779 | 0.000 | 51.779 | 30.121 | 7.865 | 0.000 | 0.000 | - | 89.765 |
| Less PY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Net Procurement (P-1) (\$ in Millions) | - | 0.000 | 0.000 | 51.779 | 0.000 | 51.779 | 30.121 | 7.865 | 0.000 | 0.000 | - | 89.765 |
| Plus CY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Total Obligation Authority (\$ in Millions) | - | 0.000 | 0.000 | 51.779 | 0.000 | 51.779 | 30.121 | 7.865 | 0.000 | 0.000 | - | 89.765 |

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

## Initial Spares (\$ in Millions) <br> Gross/Weapon System Unit Cost (\$ in Millions)

## Description:

PE 1203873 SF Ballistic Missile Defense Radars (BMD Radars):
For transparency budget exhibit moved from P-40A to P-3A to provide lower-level detail.
COBRA DANE is the most powerful, sensitive, and accurate Ground-based Midcourse Defense (GMD) radar and the premier Ballistic Missile Defense (BMD) radar. At the same time, it is the most accurate and capable phased array available to the Space Surveillance Network (SSN) for cataloging hazardous and difficult-to-track satellites and space debris objects that clutter the near-earth orbital regime that cannot be detected by most other SSN tracking assets.

COBRA DANE has two primary missions. One is to support US Strategic Command's (USSTRATCOM) BMD mission by providing midcourse coverage for the Ballistic Missile Defense System (BMDS). COBRA DANE detects Intercontinental Ballistic Missiles (ICBMs) and Sea-Launched Ballistic Missiles (SLBMs), classifies reentry vehicles (RVs) and other missile objects, provides real-time information to the GMD Fire Control (GFC), and provides tracking of threat ballistic missiles with sufficient accuracy to commit the launch of interceptors and to update the target tracks to the interceptor while the interceptor is in flight.

COBRA DANE's other primary mission is to support US Space Command's (USSPACECOM) Space Domain Awareness (SDA) mission by detecting, tracking, correlating, and characterizing man-made resident space objects, primarily in the Low-Earth Orbit (LEO) regime, including space debris and early observation of New Foreign Launches (NFLs). It operates as part of the larger SSN and provides metric observation data to its command-and-control nodes: the Combined Space Operations Center (CSpOC) and the Distributed Space Command and Control - Dahlgren (DSC2-D). COBRA DANE also supports USSPACECOM's Space Object Identification (SOI) mission by providing narrowband radar data of man-made resident space objects in the LEO regime. SOI information is used to ascertain the mission and operational status of various payloads and aids in forecasting maneuvers or deorbits. COBRA DANE mission equipment and associated sustainment suites consist of a mix of unique, custom-built components that are increasingly difficult to maintain on a 45 -year-old radar due to non-availability of replacement parts. Subsystems are no longer supported by the original
equipment manufacturers. In addition, transmitter groups, traveling wave tubes, time delay units and all associated components and spares require replacement. Due to the limited demand rates for spares, and indefinite system lifespan, life-of-type buys may be required to support this weapon system. Without these replacements, there is a high risk that equipment failures will cause unacceptable mission downtime. Funding may be used to address Diminishing Manufacturing Sources (DMS) issues.

Milestone/Development Status
N/A

Exhibit P-3a, Individual Modification: PB 2024 Air Force

## Appropriation / Budget Activity / Budget Sub Activity:

 3022F / 01 / 10ID Code (A=Service Ready, B=Not Service Ready) : A

Date: March 2023

## P-1 Line Item Number / Title:

 SPCMOD / Space Mods
## Modification Number / Title:

1 / Ballistic Missile Defense Radars

MDAP/MAIS Code:

| Models of Systems Affected: NA |  | Modification Type: Reliability \& Maintainability |  |  |  |  | Related RDT\&E PEs: |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Financial Plan | Prior Years | FY 2022 | FY 2023 | $\begin{gathered} \text { FY } 2024 \\ \text { Base } \end{gathered}$ | $\begin{gathered} \text { FY } 2024 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \text { FY } 2024 \\ \text { Total } \end{gathered}$ | FY 2025 | FY 2026 | FY 2027 | FY 2028 | To Complete | 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) | Qty (Each) I Total Cost (\$ M) | $\begin{array}{\|c\|} \hline \text { Qty (Each) I } \\ \text { Total Cost (\$ M) } \end{array}$ | 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 3: Radio Frequency Level Sensor |  |  |  |  |  |  |  |  |  |  |  |  |
| B Kits |  |  |  |  |  |  |  |  |  |  |  |  |
| Recurring |  |  |  |  |  |  |  |  |  |  |  |  |
| Radio Frequency Level Sensor:EQUIPMENT Group B (Active) | 1 - | 1 - | 1 - | 1/0.239 | 1 - | 1/0.239 | 2/0.608 | - 1 - | - 1- | 1 - | 1 - | 3/0.847 |
| Subtotal: Recurring | - 1- | 1 - | / - | - 10.239 | / - | - 10.239 | - 10.608 | - 1- | - 1 - | / - | / - | - 10.847 |
| Subtotal: Radio Frequency Level Sensor | - 1 - | 1 - | 1 - | - 10.239 | 1 - | - 10.239 | - 10.608 | - 1 - | - 1 - | - 1 - | / - | - 10.847 |
| Modification Item 2 of 3: Transmitter Group |  |  |  |  |  |  |  |  |  |  |  |  |
| B Kits |  |  |  |  |  |  |  |  |  |  |  |  |
| Recurring |  |  |  |  |  |  |  |  |  |  |  |  |
| Transmitter Group:EQUIPMENT Group B (Active) | - 1- | 1 - | 1 - | $2 / 15.293$ | 1 - | $2 / 15.293$ | 1/9.084 | - 1- | - 1- | 1 - | 1 - | 3/24.377 |
| Subtotal: Recurring | - 1- | 1 - | 1 | - /15.293 | / - | - /15.293 | - 19.084 | - 1- | - 1 - | / - | / - | - /24.377 |
| Subtotal: Transmitter Group | / - | 1 | - / - | - /15.293 | 1 - | - /15.293 | - 19.084 | - 1 | - 1 | - 1 - | / - | - /24.377 |
| Modification Item 3 of 3: Traveling Wave Tubes |  |  |  |  |  |  |  |  |  |  |  |  |
| B Kits |  |  |  |  |  |  |  |  |  |  |  |  |
| Recurring |  |  |  |  |  |  |  |  |  |  |  |  |
| Traveling Wave Tubes:EQUIPMENT Group B (Active) | 1 - | 1 - | - 1- | 4/27.887 | 1 - | 4/27.887 | 1/10.735 | 1 - | 1 - | 1 - | 1 | 5/38.622 |
| Subtotal: Recurring | 1 - | 1 | - / - | - /27.887 | 1 | - /27.887 | - /10.735 | - 1 | - 1 | / - | / - | - /38.622 |
| Subtotal: Traveling Wave Tubes | - 1- | - 1 - | 1 | - /27.887 | 1 - | - /27.887 | - /10.735 | - 1- | - 1 - | / - | / - | - /38.622 |
| Subtotal: Procurement, All Modification Items | / - | 1 - | 1 | - /43.419 | - / - | - /43.419 | - /20.427 | - $/$ - | - / - | / - | / - | - 163.846 |
| Support (All Modification Items) |  |  |  |  |  |  |  |  |  |  |  |  |
| A\&AS | - 1 - | - 1 - | - 1 - | - 12.300 | - 1 - | - 12.300 | - 12.400 | - 12.532 | - 1 - | 1 - | 1 | - 17.232 |
| OTHER GOVT | - 1 - | 1 - | 1 - | - 16.039 | 1 - | - 16.039 | - 16.220 | - 14.368 | 1 - | 1 - | 1 - | - /16.627 |
| Subtotal: Support | 1 - | 1 - | 1 | - /8.339 | 1 | - 18.339 | - 18.620 | - 16.900 | 1 | 1 - | 1 | - /23.859 |
| Installation |  |  |  |  |  |  |  |  |  |  |  |  |
| Modification Item 1 of 3: Radio Frequency Level Sensor | - 1- | 1 - | 1 | 1/0.021 | 1 | 1/0.021 | 210.042 | - 1 - | - 1- | 1 - | 1 | $3 / 0.063$ |
| Modification Item 2 of 3: Transmitter Group | 1 | 1 | 1 | 1 | 1 | 1 | 210.832 | 1/0.665 | 1 | - 1 - | - 1 - | $3 / 1.497$ |
| Modification Item 3 of 3: Traveling Wave Tubes | - 1 - | 1 - | - 1 | 1 - | - 1 | 1 | 210.200 | 310.300 | 1 - | 1 | 1 | 5/0.500 |
| Subtotal: Installation | - 1 - | - 1 - | - 1 - | 1/0.021 | - 1 - | 1/0.021 | 6/1.074 | 4/0.965 | - 1 - | - 1 - | - 1 - | 11/2.060 |

UNCLASSIFIED


Exhibit P-3a, Individual Modification: PB 2024 Air Force Appropriation / Budget Activity / Budget Sub Activity: 3022F / 01 / 10
ID Code (A=Service Ready, B=Not Service Ready) : A

Date: March 2023

## Modification Number / Title:

1 / Ballistic Missile Defense Radars

## P-1 Line Item Number / Title:

 SPCMOD / Space ModsMDAP/MAIS Code:
Modification Item 1 of 3: Radio Frequency Level Sensor

## Manufacturer Information

| Manufacturer Name: Diversified Technologies, Inc |  |  |  | Manufacturer Location: Bedford, MA |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Administrative Leadtime (in Months): 1 |  |  |  | Production Leadtime (in Months): 6 |  |  |  |
| Dates | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | FY 2027 | FY 2028 |
| Contract Dates |  |  | Jan 2024 | Jan 2025 |  |  |  |
| Delivery Dates |  |  | Jul 2024 | Jul 2025 |  |  |  |

## Installation Information

Method of Implementation: Contractor Facility

|  | Prior Years | FY 2022 | FY 2023 | $\begin{gathered} \text { FY } 2024 \\ \text { Base } \end{gathered}$ | $\begin{gathered} \text { FY } 2024 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \text { FY } 2024 \\ \text { Total } \end{gathered}$ | FY 2025 | FY 2026 | FY 2027 | FY 2028 | To Complete | 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) | 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) | Qty (Each) I Total Cost (\$ M) | Qty (Each) I Total Cost (\$ M) |
| Prior Years | - 1 - | - 1 - | - 1- | - 1 - | - 1- | - 1 - | - 1 - | - 1 - | - 1 - | - 1 - | - 1 | - 1 - |
| FY 2022 | - 1 - | - 1 - | - 1- | - 1 - | - 1 - | - 1 - | - 1 | - 1 - | - 1 - | - 1 - | - 1 | - 1 |
| FY 2023 | 1 - | - 1 - | - 1 - | - 1 - | 1 - | - 1 - | - 1 - | - 1 - | - 1 - | - 1 | 1 | 1 |
| FY 2024 | 1 - | - 1 - | - 1 - | 1/0.021 | 1 | 1/0.021 | 1 - | - 1 - | - 1 - | - 1 | - 1 | 1/0.021 |
| FY 2025 | 1 - | - 1 - | - 1 - | - 1 - | 1 | - 1 | 210.042 | - 1 - | - 1 - | - 1 | - 1 | $2 / 0.042$ |
| FY 2026 | 1 - | - 1 - | - 1 - | - 1 - | 1 | 1 | - 1 - | - 1 - | - 1 - | - 1 - | 1 | - 1 - |
| FY 2027 | 1 - | - 1 - | - 1 - | - 1 - | 1 - | 1 | 1 | 1 - | 1 - | - 1 - | 1 - | - 1 - |
| FY 2028 | 1 - | - 1 - | - 1 - | - 1 - | 1 - | 1 - | 1 - | 1 - | - 1 - | - 1 - | 1 | 1 |
| To Complete | 1 - | 1 - | - 1- | 1 - | 1 - | 1 | 1 | 1 - | - 1 - | - 1 - | 1 | 1 |
| Total | - 1- | - 1- | - 1- | 1/0.021 | - 1- | 1/0.021 | $2 / 0.042$ | - 1- | - 1 - | - 1- | - 1- | 3/0.063 |

Installation Schedule

|  | PYS | FY 2022 |  |  |  | FY 2023 |  |  |  | FY 2024 |  |  |  | FY 2025 |  |  |  | FY 2026 |  |  |  | FY 2027 |  |  |  | FY 2028 |  |  |  | TC | Tot |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Q1 | Q2 | Q3 | Q4 | Q1 | Q2 | Q3 | Q4 | Q1 | Q2 | Q3 | Q4 | Q1 | Q2 | Q3 | Q4 | Q1 | Q2 | Q3 | Q4 | Q1 | Q2 | Q3 | Q4 | Q1 | Q2 | Q3 | Q4 |  |  |
| In | 0 | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | 2 | - | - | - | - | - | - | - | - | - | - | - | - | - | 0 | 3 |
| Out | 0 | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | 2 | - | - | - | - | - | - | - | - | - | - | - | - | - | 0 | 3 |

Exhibit P-3a, Individual Modification: PB 2024 Air Force Appropriation / Budget Activity / Budget Sub Activity: 3022F / 01 / 10
ID Code (A=Service Ready, B=Not Service Ready) : A

Date: March 2023

## Modification Number / Title:

1 / Ballistic Missile Defense Radars

## P-1 Line Item Number / Title:

 SPCMOD / Space ModsMDAP/MAIS Code:
Modification Item 2 of 3: Transmitter Group

## Manufacturer Information

| Manufacturer Name: : Diversified Technologies, Inc |  |  |  | Manufacturer Location: Bedford, MA |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Administrative Leadtime (in Months): 1 |  |  |  | Production Leadtime (in Months): 20 |  |  |  |
| Dates | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | FY 2027 | FY 2028 |
| Contract Dates |  |  | Jan 2024 | Jan 2025 |  |  |  |
| Delivery Dates |  |  | Sep 2025 | Sep 2026 |  |  |  |

## Installation Information

Method of Implementation: Contract Field Team

|  | Prior Years | FY 2022 | FY 2023 | $\begin{gathered} \text { FY } 2024 \\ \text { Base } \end{gathered}$ | $\begin{gathered} \text { FY } 2024 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \text { FY } 2024 \\ \text { Total } \end{gathered}$ | FY 2025 | FY 2026 | FY 2027 | FY 2028 | To Complete | 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) | 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 - | - 1- | - 1 - | - 1- | - 1- | - 1 - | - 1 - | - 1 - | - 1 - | - 1 - | - 1 - |
| FY 2022 | - 1 - | - 1 - | - 1- | - 1 - | - 1 - | - 1 - | - 1 | - 1 - | - 1 - | - 1 - | - 1 | - 1 |
| FY 2023 | 1 - | - 1 - | - 1 - | 1 - | 1 - | 1 - | 1 - | - 1 | - 1 - | - 1 | 1 | 1 |
| FY 2024 | 1 - | - 1 - | - 1 - | - 1 - | 1 | 1 | 2/0.832 | 1 - | - 1 - | - 1 | 1 | $2 / 0.832$ |
| FY 2025 | 1 - | - 1 - | - 1 - | - 1 - | 1 - | 1 | - 1 - | 1/0.665 | - 1 - | - 1 | - 1 | 1/0.665 |
| FY 2026 | 1 - | - 1 - | - 1 - | - 1 - | 1 | 1 | 1 - | - 1 - | - 1 - | - 1 - | 1 | - 1 - |
| FY 2027 | 1 - | - 1 - | - 1 - | - 1 - | 1 - | 1 | 1 | - 1 - | 1 - | - 1 - | 1 - | - 1 - |
| FY 2028 | 1 - | - 1 - | - 1 - | - 1 - | 1 - | 1 - | 1 - | 1 - | - 1 - | - 1 - | 1 | 1 |
| To Complete | 1 - | 1 - | - 1- | 1 - | 1 - | 1 | 1 | 1 | 1 - | - 1 - | 1 | 1 |
| Total | - 1- | - 1- | - 1- | - 1- | - 1- | - 1 - | $2 / 0.832$ | 1/0.665 | - 1 - | - 1- | - 1- | 3/1.497 |

Installation Schedule

|  | PYS | FY 2022 |  |  |  | FY 2023 |  |  |  | FY 2024 |  |  |  | FY 2025 |  |  |  | FY 2026 |  |  |  | FY 2027 |  |  |  | FY 2028 |  |  |  | TC | Tot |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Q1 | Q2 | Q3 | Q4 | Q1 | Q2 | Q3 | Q4 | Q1 | Q2 | Q3 | Q4 | Q1 | Q2 | Q3 | Q4 | Q1 | Q2 | Q3 | Q4 | Q1 | Q2 | Q3 | Q4 | Q1 | Q2 | Q3 | Q4 |  |  |
| In | 0 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 2 | - | - | - | 1 | - | - | - | - | - | - | - | - | - | 0 | 3 |
| Out | 0 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 2 | - | - | - | 1 | - | - | - | - | - | - | - | - | - | 0 | 3 |

Exhibit P-3a, Individual Modification: PB 2024 Air Force Appropriation / Budget Activity / Budget Sub Activity: 3022F / 01 / 10
ID Code (A=Service Ready, B=Not Service Ready) : A

Date: March 2023

## Modification Number / Title:

1 / Ballistic Missile Defense Radars

## P-1 Line Item Number / Title: SPCMOD / Space Mods

MDAP/MAIS Code:
Modification Item 3 of 3: Traveling Wave Tubes

## Manufacturer Information

| Manufacturer Name: Raytheon Company |  |  |  | Manufacturer Location: Colorado Springs, CO |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Administrative Leadtime (in Months): 1 |  |  |  | Production Leadtime (in Months): 20 |  |  |  |
| Dates | FY 2022 | FY 2023 | FY 2024 | FY 2025 | FY 2026 | FY 2027 | FY 2028 |
| Contract Dates |  |  | Jan 2024 | Jan 2025 |  |  |  |
| Delivery Dates |  |  | Sep 2025 | Sep 2026 |  |  |  |


| Installation Information |
| :--- |
| Method of Implementation: Contract Field Team |


| Installation Cost | Prior Years | FY 2022 | FY 2023 | $\begin{gathered} \text { FY } 2024 \\ \text { Base } \end{gathered}$ | $\begin{gathered} \text { FY } 2024 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \text { FY } 2024 \\ \text { Total } \end{gathered}$ | FY 2025 | FY 2026 | FY 2027 | FY 2028 | To Complete | Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Qty (Each) I <br> 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 <br> 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 <br> Total Cost (\$ M) | Qty (Each) I Total Cost (\$ M) | Qty (Each) I <br> Total Cost (\$ M) | Qty (Each) I Total Cost (\$ M) |
| Prior Years | 1 - | - 1 - | - 1 - | - 1 - | - 1 - | - 1 - | - 1 - | - 1 - | - 1 - | - 1 | - 1 | - 1 |
| FY 2022 | 1 - | - 1- | - 1- | - 1- | 1 - | - 1- | - 1- | - 1- | - 1- | - 1- | 1 | 1 |
| FY 2023 | 1 - | - 1- | - 1- | - 1- | 1 - | 1- | - 1 - | - 1- | - 1 - | - 1- | 1 - | 1- |
| FY 2024 | 1 - | - 1- | - 1- | - 1- | 1- | - 1 - | 210.200 | 210.200 | - 1- | - 1- | 1- | 4/0.400 |
| FY 2025 | - 1 - | - 1 - | - 1 - | - 1- | - 1 - | - 1- | - 1 - | 1/0.100 | - 1 - | - 1 - | - 1 - | 1/0.100 |
| FY 2026 | - 1 - | - 1 - | - 1 - | - 1 - | - 1 - | - 1 - | - 1 - | - 1 - | - 1 - | - 1 - | - 1 - | - 1 - |
| FY 2027 | - 1 - | - 1 - | - 1 - | - 1 - | - 1 - | - 1 - | - 1 - | - 1 - | - 1 - | - 1 - | - 1 - | - 1 - |
| FY 2028 | - 1 - | - 1 - | - 1- | - 1- | - 1- | - 1- | - 1 - | - 1- | - 1 - | - 1 - | - 1 - | - 1- |
| To Complete | - 1 - | - 1 - | - 1 - | - 1- | - 1 - | - 1 - | - 1 - | - 1 - | - 1 - | - 1 - | 1 - | 1 |
| Total | 1 - | - 1 - | - 1 - | - 1- | 1 - | 1 - | 210.200 | $3 / 0.300$ | - 1 - | - 1- | - 1 - | 5/0.500 |

Installation Schedule

|  |  | FY 2022 |  |  |  | FY 2023 |  |  |  | FY 2024 |  |  |  | FY 2025 |  |  |  | FY 2026 |  |  |  | FY 2027 |  |  |  | FY 2028 |  |  |  | TC | Tot |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | PYS | Q1 | Q2 | Q3 | Q4 | Q1 | Q2 | Q3 | Q4 | Q1 | Q2 | Q3 | Q4 | Q1 | Q2 | Q3 | Q4 | Q1 | Q2 | Q3 | Q4 | Q1 | Q2 | Q3 | Q4 | Q1 | Q2 | Q3 | Q4 |  |  |
| In | 0 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | 1 | 1 | 1 | 1 | - | - | - | - | - | - | - | - | - | 0 | 5 |
| Out | 0 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | 1 | 1 | 1 | 1 | - | - | - | - | - | - | - | - | - | 0 | 5 |

UNCLASSIFIED

| Exhibit P-40a, Budget Item Justification For Aggregated Modification Items: PB 2024 Air Force |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Date: March 2023 |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3022F / 01 / 10 |  |  |  |  |  |  |  | P-1 Line Item Number / Title: SPCMOD / Space Mods |  |  |  |  |  |  | Aggregated Modification Items Title: Cheyenne Mountain Complex |  |  |  |  |  |
|  | $\begin{aligned} & \mathrm{ID} \\ & \mathrm{CD} \end{aligned}$ | MDAP/ <br> MAIS <br> Code | Prior Years |  |  | FY 2022 |  |  | FY 2023 |  |  | FY 2024 Base |  |  | FY 2024 OCO |  |  | FY 2024 Total |  |  |
| Item Number / Title |  |  | Unit Cost (\$ M) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost (\$ M) | Unit Cost (\$ M) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost (\$ M) | Unit Cost (\$ M) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost (\$ M) | Unit Cost (\$ M) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost (\$ M) | Unit Cost (\$ M) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost (\$ M) | Unit Cost (\$ M) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost (\$ M) |
| NCMCB4 / NORAD Cheyenne Mountain Complex Block 04 |  |  | - | - | 2.115 | - | - | 0.200 | - | - | - | - | - | - | - |  | - | - |  | - |
| NCMCB5 / Block 05 |  |  | - | - | - | - | - | 0.387 | - |  | - | - |  | - | - |  | - | - |  | - |
| Total |  |  | - | - | 2.115 | - | - | 0.587 | - | - | 0.000 | - | - | 0.000 | - |  | 0.000 | - |  | 0.000 |
|  |  |  | FY 2025 |  |  | FY 2026 |  |  | FY 2027 |  |  | FY 2028 |  |  | To Complete |  |  | Total Cost |  |  |
| Item Number / Title | $\begin{aligned} & \mathrm{ID} \\ & \mathrm{CD} \end{aligned}$ | MDAP/ MAIS Code | Unit Cost (\$ M) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost <br> (\$ M) | Unit Cost (\$ M) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost <br> (\$ M) | Unit Cost (\$ M) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost (\$ M) | Unit Cost (\$ M) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | Total Cost <br> (\$ M) | Unit Cost (\$ M) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost (\$ M) | Unit Cost (\$ M) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost <br> (\$ M) |
| NCMCB4 / NORAD Cheyenne Mountain Complex Block 04 |  |  | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |  | 2.315 |
| NCMCB5 / Block 05 |  |  | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 0.387 |
| Total |  |  | - | - | 0.000 | - | $\cdot$ | 0.000 | - | - | 0.000 | - | - | 0.000 | - | - | 0.000 | - | - | 2.702 |

Note: Subtotals or Totals in this Exhibit P-40a may not be exact or sum exactly, due to rounding.

## Modification Information:

MOdification Information:

| Item Number / Title | Models of Systems Affected | Modification Type |
| :--- | :--- | :--- |
| NCMCB4 / NORAD Cheyenne Mountain <br> Complex Block 04 | NORADCheyenneMountainComplex | Reliability \& Maintainability |
| NCMCB5 / Block 05 | NORADCheyenneMountainComplex | Reliability \& Maintainability |

UNCLASSIFIED

| Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2024 Air Force |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Date: March 2023 <br> Aggregated Items Title: Cheyenne Mountain Complex |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3022F / 01 / 10 |  |  |  |  |  |  |  | P-1 Line Item Number / Title: SPCMOD / Space Mods |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  | ior Yea |  | FY 2022 |  |  | FY 2023 |  |  | FY 2024 Base |  |  | FY 2024 OCO |  |  | FY 2024 Total |  |  |
| Item Number / Title [DODIC] | $\begin{aligned} & \mathrm{ID} \\ & \mathrm{CD} \end{aligned}$ | $\begin{array}{\|c} \text { MDAPI } \\ \text { MAIS } \\ \text { code } \end{array}$ | Unit Cost (\$ M) | $\begin{gathered} \text { Qty } \\ (\text { (Each) } \end{gathered}$ | Total Cost (\$ M) | Unit Cost (\$ M) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \\ \hline \end{gathered}$ | Total Cost <br> (\$ M) | Unit Cost <br> (\$ M) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | Total Cost <br> (\$ M) | Unit Cost <br> (\$ M) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | Total Cost <br> (\$ M) | Unit Cost (\$ M) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | Total <br> Cost <br> (\$ M) | Unit Cost (\$ M) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | Total Cost <br> (\$ M) |
| NCMC |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Hardware | A |  | - | - | - | - | - | - | 0.104 | 1 | 0.104 | 0.103 | 1 | 0.103 | - | - | - | 0.103 | 1 | 0.103 |
| Subtotal: NCMC |  |  | - | - | - | - | - | - | - | - | 0.104 | - | - | 0.103 | - | - | - | - | - | 0.103 |
| Total |  |  | - | - | - | - | - | - | - | - | 0.104 | - | - | 0.103 | - | - | - | - | - | 0.103 |

Note: Subtotals or Totals in this Exhibit P-40a may not be exact or sum exactly, due to rounding.

UNCLASSIFIED

| Exhibit P-40a, Budget Item Justification For Aggregated Modification Items: PB 2024 Air Force |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Date: March 2023 |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity:$3022 \mathrm{~F} / 01 / 10$ |  |  |  |  |  |  |  | P-1 Line Item Number / Title: SPCMOD / Space Mods |  |  |  |  |  |  |  | Aggregated Modification Items Title: Ballistic Missile Early Warning |  |  |  |  |
|  | $\begin{aligned} & \text { ID } \\ & \text { CD } \end{aligned}$ | MDAP/ <br> MAIS <br> Code | Prior Years |  |  | FY 2022 |  |  | FY 2023 |  |  | FY 2024 Base |  |  | FY 2024 OCO |  |  | FY 2024 Total |  |  |
| Item Number / Title |  |  | Unit Cost (\$ M) | $\underset{\text { (Each) }}{\text { Qty }}$ | Total Cost (\$ M) | Unit Cost (\$ M) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost <br> (\$ M) | Unit Cost (\$ M) | Qty (Each) | Total Cost <br> (\$ M) | Unit Cost (\$ M) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost (\$ M) | Unit Cost (\$ M) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost (\$ M) | Unit Cost (\$ M) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost <br> (\$ M) |
| BMEWS-UEWR- <br> Block-05 / Ballistic Missile Early Warning (BMEWS) |  |  | - | - | - | - | - | - | - | - | - | - | - | 0.668 | - | - | - | - | - | 0.668 |
| BMEWS-UEWR- <br> Block-06 / Ballistic Missile Early Warning |  |  | - | - | - | - | - | - - | - | - | - | - | - | 4.278 | - | - | - | - | - | 4.278 |
| BMEWS-1 / BPP Block 02 |  |  | - | - | 4.439 | - | - | - - | - | - | - | - | - | - | - | - | - | - | - | - |
| BMEWS-3 / DPSP |  |  | - | - | 4.000 | - | - | - - | - | - | - | - | - | - | - | - | - | - | - | - |
| Total |  |  | - | - | 8.439 | - | - | 0.000 | - | - | 0.000 | - | - | 4.946 | - | - | 0.000 | - | - | 4.946 |
|  |  |  |  | FY 2025 |  |  | Y 2026 |  |  | FY 2027 |  |  | FY 2028 |  |  | Compl |  |  | tal Cost |  |
| Item Number / Title | $\begin{aligned} & \text { ID } \\ & \text { CD } \end{aligned}$ | $\begin{gathered} \text { MDAP/ } \\ \text { MAIS } \\ \text { Code } \end{gathered}$ | Unit Cost (\$ M) | $\underset{\text { (Each) }}{\text { Qty }}$ | Total Cost (\$ M) | Unit Cost (\$ M) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | Total Cost <br> (\$ M) | Unit Cost (\$ M) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost <br> (\$ M) | Unit Cost (\$ M) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | Total Cost (\$ M) | Unit Cost (\$ M) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | Total Cost <br> (\$ M) | Unit Cost (\$ M) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost (\$ M) |
| BMEWS-UEWR- <br> Block-05 / Ballistic Missile Early Warning (BMEWS) |  |  | - | - | 8.981 | - |  | - 10.617 | - | - | 21.803 | - | - | 36.801 | - | - | - | - | - | 78.870 |
| BMEWS-UEWR- <br> Block-06 / Ballistic Missile Early Warning |  |  | - | - | 9.019 | - | - | - 3.821 | - | - | - | - | - | - | - | - | - | - | - | 17.118 |
| BMEWS-1 / BPP Block 02 |  |  | - | - | - | - | - | - - | - | - | - | - | - | - | - | - | - | - | - | 4.439 |
| BMEWS-3 / DPSP |  |  | - | - | - | - | - | - - | - | - | - | - | - | - | - | - | - | - | - | 4.000 |
| Total |  |  | - | - | 18.000 | - |  | - 14.438 | - | - | 21.803 | - | - | 36.801 | - | - | 0.000 | - | - | 104.427 |

Note: Subtotals or Totals in this Exhibit P-40a may not be exact or sum exactly, due to rounding.

## Modification Information:

| Item Number / Title | Models of Systems Affected |  |
| :--- | :--- | :--- |
| BMEWS-UEWR-Block-05 / Ballistic <br> Missile Early Warning (BMEWS) | NA | Reliability \& Maintainability |
| BMEWS-UEWR-Block-06 / Ballistic <br> Missile Early Warning | NA | Reliability \& Maintainability |
| BMEWS-1 / BPP Block 02 | NA | Reliability \& Maintainability |
| BMEWS-3 / DPSP | TBD | Reliability \& Maintainability |

UNCLASSIFIED

| Exhibit P-3a, Individual Modification: PB 2024 Air Force |  |  |  |  |  |  |  |  | Date: March 2023 |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity:$3022 \mathrm{~F} / 01 / 10$ |  |  |  | P-1 Line Item Number / Title: SPCMOD / Space Mods |  |  |  |  | Modification Number / Title: <br> 1 / Ballistic Missile Early Warning |  |  |  |
| ID Code (A=Service Ready, B=Not Service Ready) : A |  |  |  |  |  | MDAP/MAIS Code: |  |  |  |  |  |  |
| Resource Summary | Prior <br> Years | FY 2022 | FY 2023 | FY 2024 Base | $\begin{gathered} \text { FY } 2024 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \text { FY } 2024 \\ \text { Total } \end{gathered}$ | FY 2025 | FY 2026 | FY 2027 | FY 2028 | To Complete | Total |
| Procurement Quantity (Units in Each) | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Cost (\$ in Millions) | - | 0.000 | 0.000 | 11.829 | 0.000 | 11.829 | 0.100 | 0.300 | 0.000 | 0.000 | - | 12.229 |
| Less PY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Net Procurement (P-1) (\$ in Millions) | - | 0.000 | 0.000 | 11.829 | 0.000 | 11.829 | 0.100 | 0.300 | 0.000 | 0.000 | - | 12.229 |
| Plus CY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Total Obligation Authority (\$ in Millions) | - | 0.000 | 0.000 | 11.829 | 0.000 | 11.829 | 0.100 | 0.300 | 0.000 | 0.000 | - | 12.229 |
| (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 03: FY 2024 will fund ongoing program support costs for UEWR modification efforts and will initiate procurement of Capital Equipment Replacement of unsupportable mission and support equipment, initial spares, and lifetime buys of spares to include, but not limited to, Frequency Timing Standards (FTS) and associated components. The Department of Defense (DoD)/Chief Information Officer (CIO) mandated timing transition to the Defense Information Systems Agency (DISA) Timing \& Synchronization (TSSC) system. This project will replace the current GPS antennas utilized for timing and synchronization of UEWR by integrating the UEWR FTS with the recently deployed TSSC system. Due to the limited spares, demand rates, and indefinite system lifespan, life-of-type buys may be required to support this weapon system. Funding will allow rapid response to implement system resiliency and situational awareness necessary to operate in the contested space domain. Activities may include, but are not limited to, program office support, studies, technical analysis, testing, and deployment of the required capabilities and interfaces, associated hardware, software, firmware, etc.

For transparency budget exhibit moved from P-40A to P3A to provide lower level detail.
Milestone/Development Status
N/A

## UNCLASSIFIED



## UNCLASSIFIED



UNCLASSIFIED

| Exhibit P-3a, Individual Modification: PB 2024 Air Force |  |  |  |  |  |  |  |  | Date: March 2023 |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity 3022F / 01 / 10 | Budget | ub Activit | P-1 Line Item Number / Title: SPCMOD / Space Mods |  |  |  |  |  | Modification Number / Title: <br> 2 / Ballistic Missile Early Warning |  |  |  |
| ID Code (A=Service Ready, B=Not Service Ready) : A |  |  |  |  |  | MDAP/MAIS Code: |  |  |  |  |  |  |
| Resource Summary | Prior Years | FY 2022 | FY 2023 | $\begin{gathered} \text { FY } 2024 \\ \text { Base } \end{gathered}$ | $\begin{gathered} \text { FY } 2024 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \text { FY } 2024 \\ \text { Total } \end{gathered}$ | FY 2025 | FY 2026 | FY 2027 | FY 2028 | To Complete | Total |
| Procurement Quantity (Units in Each) | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Cost (\$ in Millions) | - | 0.000 | 0.000 | 20.544 | 0.000 | 20.544 | 19.269 | 20.705 | 14.545 | 0.300 | - | 75.363 |
| Less PY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Net Procurement (P-1) (\$ in Millions) | - | 0.000 | 0.000 | 20.544 | 0.000 | 20.544 | 19.269 | 20.705 | 14.545 | 0.300 | - | 75.363 |
| Plus CY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Total Obligation Authority (\$ in Millions) | - | 0.000 | 0.000 | 20.544 | 0.000 | 20.544 | 19.269 | 20.705 | 14.545 | 0.300 | - | 75.363 |
| (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, 1203909SF, P-3A Mod BMEWS - UEWR - Block 04, Ballistic Missile Early Warning, is a new start


 situational awareness necessary to operate in the contested space domain. Activities may include, but are not limited to, program office support, studies, technical analysis, etc.

For transparency budget exhibit moved from P-40A to P3A to provide lower level detail.
Milestone/Development Status
N/A

## UNCLASSIFIED




UNCLASSIFIED

| Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2024 Air Force |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Date: March 2023 <br> Aggregated Items Title: Ballistic Missile Early Warning |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity:$\text { 3022F / } 01 / 10$ |  |  |  |  |  |  |  | P-1 Line Item Number / Title: SPCMOD / Space Mods |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  | Prior Years |  |  | FY 2022 |  |  |  | FY 2023 |  |  | FY 2024 Base |  |  | FY 2024 OCO |  |  | FY 2024 Total |  |  |
| Item Number / <br> Title [DODIC] | $\begin{aligned} & \text { ID } \\ & \text { CD } \end{aligned}$ |  | Unit Cost $(\$ M)$ (\$ M) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | Total Cost (\$ M) | Unit Cost (\$ M) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ |  | Total Cost (\$ M) | $\underset{(\$ M)}{\text { Unit Cost }}$ | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost <br> (\$ M) | Unit Cost (\$ M) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost (\$ M) | Unit Cost (\$ M) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost <br> (\$ M) | Unit Cost (\$ M) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost (\$ M) |
| BPP Block 00 Update |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Subarray Power | A |  | - | - | - | 18.066 |  | 1 | 18.066 | 14.138 | 1 | 14.138 | 0.293 | 1 | 0.293 | - | - | - | 0.293 | 1 | 0.293 |
| Subtotal: BPP Block 00 Update |  |  | - | - | - | - | - | - | 18.066 | - | - | 14.138 | - | - | 0.293 | - | - | - | - | - | 0.293 |
| BPP Block 01 Update |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Array Group Drivers | A |  | - | - | - | - | - | - | - | - | - | - | 0.600 | 1 | 0.600 | - | - | - | 0.600 | 1 | 0.600 |
| Subtotal: BPP Block 01 Update |  |  | - | - | - | - | - | - | - | - | - | - | - | - | 0.600 | - | - | - | - | - | 0.600 |
| Thule A8 Repair |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| J-Plant HEMP Shielding | A |  | - | - | - | - | - | - | - | - | - | - | - | - | 21.577 | - | - | - | - | - | 21.577 |
| Power Generation and Distro System | A |  | - | - | - | - | - | - | - | - | - | - | - | - | 42.000 | - | - | - | - | - | 42.000 |
| Subtotal: Thule A8 Repair |  |  | - | - | - | - | - | - | - | - | - | $\bullet$ | - | - | 63.577 | $\cdot$ | - | - | $\bullet$ | - | 63.577 |
| BPP Block 03 Update |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| FTS | A |  | - | - | - | - | - | - | 0.000 | 14.981 | 1 | 14.981 | - | - | - | - | - | - | - | - | - |
| Subtotal: BPP Block 03 Update |  |  | - | - | - | - | - | - | 0.000 | - | - | 14.981 | - | - | - | - | - | - | - | - | - |
| Total |  |  | - | - | - | - | - | - | 18.066 | $\cdot$ | - | 29.119 | - | - | 64.470 | - | - | - | - | - | 64.470 |

UNCLASSIFIED

| Exhibit P-40a, Budget Item Justification For Aggregated Modification Items: PB 2024 Air Force |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Date: March 2023 |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity:$3022 \mathrm{~F} / 01 / 10$ |  |  |  |  |  |  |  | P-1 Line Item Number / Title: SPCMOD / Space Mods |  |  |  |  |  |  |  | Aggregated Modification Items Title: Submarine-Launched Ballistic Missile |  |  |  |  |
|  | $\begin{aligned} & \text { ID } \\ & \text { CD } \end{aligned}$ | MDAP/ MAIS Code | Prior Years |  |  | FY 2022 |  |  | FY 2023 |  |  | FY 2024 Base |  |  | FY 2024 OCO |  |  | FY 2024 Total |  |  |
| Item Number / Title |  |  | Unit Cost (\$ M) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost (\$ M) | Unit Cost (\$ M) | $\underset{\text { (Each) }}{\text { Qty }}$ | Total Cost (\$ M) | Unit Cost (\$ M) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost (\$ M) | Unit Cost (\$ M) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | Total Cost (\$ M) | Unit Cost (\$ M) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost (\$ M) | Unit Cost (\$ M) | $\underset{(\text { (Each) }}{\text { Qty }}$ | Total Cost (\$ M) |
| PARCSB1 / PARCS Block 01 |  |  | - | - | 0.798 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Total |  |  | - |  | 0.798 | - | - | 0.000 | - | - | 0.000 | - | - | 0.000 | - |  | 0.000 | - | - | 0.000 |
|  |  |  | FY 2025 |  |  | FY 2026 |  |  | FY 2027 |  |  | FY 2028 |  |  | To Complete |  |  | Total Cost |  |  |
| Item Number / Title | $\begin{aligned} & \text { ID } \\ & \text { CD } \end{aligned}$ | MDAP/ <br> MAIS Code | $\begin{gathered} \text { Unit Cost } \\ (\$ M) \\ \hline \end{gathered}$ | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost (\$ M) | Unit Cost (\$ M) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost <br> (\$ M) | Unit Cost (\$ M) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost (\$ M) | Unit Cost (\$ M) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost (\$ M) | Unit Cost (\$ M) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost (\$ M) | Unit Cost (\$ M) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | Total Cost (\$ M) |
| PARCSB1 / PARCS Block 01 |  |  | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 0.798 |
| Total |  |  | - | - | 0.000 | - | - | 0.000 | - | - | 0.000 | - | - | 0.000 | - | - | 0.000 | - | - | 0.798 |

Note: Subtotals or Totals in this Exhibit P-40a may not be exact or sum exactly, due to rounding.

## Modification Information:

| Item Number / Title | Models of Systems Affected | Modification Type |
| :--- | :--- | :--- |
| PARCSB1 / PARCS Block 01 | NA | Reliability \& Maintainability |


| Exhibit P-3a, Individual Modification: PB 2024 Air Force |  |  |  |  |  |  |  |  | Date: March 2023 |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3022F / 01 / 10 |  |  | P-1 Line Item Number / Title: SPCMOD / Space Mods |  |  |  |  |  | Modification Number / Title: <br> 1 / PARCS Block 02 |  |  |  |
| ID Code (A=Service Ready, B=Not Service Ready) : A |  |  |  |  |  | MDAP/MAIS Code: |  |  |  |  |  |  |
| Resource Summary | Prior <br> Years | FY 2022 | FY 2023 | FY 2024 Base | $\begin{gathered} \text { FY } 2024 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \text { FY } 2024 \\ \text { Total } \end{gathered}$ | FY 2025 | FY 2026 | FY 2027 | FY 2028 | To Complete | Total |
| Procurement Quantity (Units in Each) | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Cost (\$ in Millions) | 0.500 | 0.606 | 3.995 | 6.466 | 0.000 | 6.466 | 6.330 | 5.797 | 5.919 | 6.018 | - | 35.631 |
| Less PY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Net Procurement (P-1) (\$ in Millions) | 0.500 | 0.606 | 3.995 | 6.466 | 0.000 | 6.466 | 6.330 | 5.797 | 5.919 | 6.018 | - | 35.631 |
| Plus CY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Total Obligation Authority (\$ in Millions) | 0.500 | 0.606 | 3.995 | 6.466 | 0.000 | 6.466 | 6.330 | 5.797 | 5.919 | 6.018 | - | 35.631 |
| (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:



 components of the subsystems.

This program was previously funded out of Air Force Appropriation 3021 Space Procurement, PEC: 1203912F, BPAC: 23 SMOD.
Perimeter Acquisition Radar Attack Characterization System (PARCS) Block 02 (P-3a):





 operate in the contested space domain. Activities may include, but are not limited to, program office support, studies, technical analysis, etc.

The effort is funded in PE 1203912SF Sea Launched Ballistic Missile (SLBM) Detection and Warning System.
Milestone/Development Status
N/A

## UNCLASSIFIED

| Exhibit P-3a, Individual Modification: PB 2024 Air Force |  |  |  |  |  |  |  |  | Date: March 2023 |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3022F / 01 / 10 |  |  | P-1 Line Item Number / Title: SPCMOD / Space Mods |  |  |  |  |  | Modification Number / Title: 1 / PARCS Block 02 |  |  |  |
| ID Code (A=Service Ready, B=Not Service Ready) : A |  |  | MDAP/MAIS Code: |  |  |  |  |  |  |  |  |  |
| Models of Systems Affected: NA |  | Modification Type: Reliability \& Maintainability |  |  |  |  | Related RDT\&E PEs: |  |  |  |  |  |
|  | Prior Years | FY 2022 | FY 2023 | $\begin{gathered} \hline \text { FY } 2024 \\ \text { Base } \end{gathered}$ | $\begin{gathered} \hline \text { FY } 2024 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \hline \text { FY } 2024 \\ \text { Total } \end{gathered}$ | FY 2025 | FY 2026 | FY 2027 | FY 2028 | To Complete | Total |
| Financial Plan | $\begin{gathered} \text { Oty (Each) I } \\ \text { Total Cost (\$ M) } \end{gathered}$ | $\begin{array}{\|c\|} \hline \text { Qty (Each) I } \\ \text { Total Cost (\$M) } \\ \hline \end{array}$ | $\begin{gathered} \text { Qty (Each) I } \\ \text { Total Cost (\$ M) } \end{gathered}$ | $\begin{array}{\|c\|} \hline \text { Qty (Each) I } \\ \text { Total Cost }(\$ M) \\ \hline \end{array}$ | $\begin{gathered} \text { Oty (Each) I } \\ \text { Total Cost (\$ M) } \\ \hline \end{gathered}$ | $\begin{array}{\|c\|} \hline \text { Qty (Each) I } \\ \text { Total Cost (\$M) } \\ \hline \end{array}$ | $\begin{array}{\|c\|} \hline \text { Qty (Each) I } \\ \text { Total Cost (\$ M) } \\ \hline \end{array}$ | $\begin{array}{\|c\|} \hline \text { Qty (Each) I } \\ \text { Total Cost (\$ M) } \\ \hline \end{array}$ | $\begin{array}{\|c\|} \hline \text { Qty (Each) I } \\ \text { Total Cost }(\$ \mathrm{M}) \\ \hline \end{array}$ | $\begin{array}{\|c\|} \hline \text { Qty (Each)I } \\ \text { Total Cost (\$M) } \\ \hline \end{array}$ | $\begin{gathered} \text { Oty (Each) I } \\ \text { Total Cost (\$M) } \\ \hline \end{gathered}$ | $\begin{gathered} \text { Qty (Each) I } \\ \text { Total Cost (\$M) } \\ \hline \end{gathered}$ |
| Procurement |  |  |  |  |  |  |  |  |  |  |  |  |
| Modification Item 1 of 2: COMMON: Install Kits (2) |  |  |  |  |  |  |  |  |  |  |  |  |
| A Kits |  |  |  |  |  |  |  |  |  |  |  |  |
| Recurring |  |  |  |  |  |  |  |  |  |  |  |  |
| COMMON: Install Kits:INSTALL KITS Group A (Active) | - 1 - | - 1 | - 10.100 | - 10.100 | 1 - | - 10.100 | - 10.100 | - 10.100 | - 10.100 | - 10.100 | 1 | - 10.600 |
| Subtotal: Recurring | - 1 - | 1 | - 10.100 | - 10.100 | 1 | - 10.100 | - 10.100 | - 10.100 | - 10.100 | - 10.100 | - 1 - | - 10.600 |
| Subtotal: COMMON: Install Kits (2) | - / - | - / - | - 10.100 | - 10.100 | - 1- | - 10.100 | - 10.100 | - 10.100 | - 10.100 | - 10.100 | - 1 - | - 10.600 |
| Modification Item 2 of 2: PARCS: EQUIPMENT (2) |  |  |  |  |  |  |  |  |  |  |  |  |
| B Kits |  |  |  |  |  |  |  |  |  |  |  |  |
| Recurring |  |  |  |  |  |  |  |  |  |  |  |  |
| PARCS: EQUIPMENT:EQUIPMENT Group B (Active) | - 1 - | - 1 - | $1 / 2.895$ | 1/3.866 | 1 - | 1/3.866 | 1/3.730 | 1/3.197 | 1/3.319 | 1/3.418 | - 1 - | 6/20.425 |
| Subtotal: Recurring | - 1 - | 1 | /2.895 | - /3.866 | -1- | - 13.866 | - 13.730 | - /3.197 | - 13.319 | - 13.418 | - 1- | - /20.425 |
| Subtotal: PARCS: EQUIPMENT (2) | - / - | - / - | - $/ 2.895$ | - 13.866 | - 1- | - 13.866 | - 13.730 | - $/ 3.197$ | - 13.319 | - 13.418 | - 1 - | - 120.425 |
| Subtotal: Procurement, All Modification Items | - | - / - | - /2.995 | - 13.966 | - | - 13.966 | - 13.830 | - / 3.297 | - 13.419 | - 13.518 | - 1 - | - 121.025 |
| Support (All Modification Items) |  |  |  |  |  |  |  |  |  |  |  |  |
| A\&AS | - 10.500 | - 10.606 | - 11.000 | - 12.500 | - 1 - | - 12.500 | - 12.500 | - 12.500 | - 12.500 | - 12.500 | - 1 - | - 114.606 |
| Subtotal: Support | - 10.500 | - 10.606 | - 11.000 | - 12.500 | - 1 - | - 12.500 | - 12.500 | - 12.500 | - 12.500 | - 12.500 | - 1 - | - 114.606 |
| Installation |  |  |  |  |  |  |  |  |  |  |  |  |
| Subtotal: Installation | - / - | - 1 - | - / - | - 1. | - 1. | / - | - 1 - | - / - | - 1 - | - 1 - | - 1 - | - 1- |
| Total |  |  |  |  |  |  |  |  |  |  |  |  |
| Total Cost (Procurement + Support + Installation) | 0.500 | 0.606 | 3.995 | 6.466 | 0.000 | 6.466 | 6.330 | 5.797 | 5.919 | 6.018 | - | 35.631 |

UNCLASSIFIED


UNCLASSIFIED


UNCLASSIFIED

| Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2024 Air Force ${ }^{\text {a }}$ D |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Date: March 2023 |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3022F / 01 / 10 |  |  |  |  |  |  | P-1 Line Item Number / Title: SPCMOD / Space Mods |  |  |  |  |  |  |  | Aggregated Items Title: <br> Space Situational Awareness Operations |  |  |  |  |
|  |  | Prior Years |  |  | FY 2022 |  |  | FY 2023 |  |  | FY 2024 Base |  |  | FY 2024 OCO |  |  | FY 2024 Total |  |  |
| Item Number / Title [DODIC] | ID MDAP/ <br> CD MAIs <br> Code  | Unit Cost $(\$ M)$ | $\begin{gathered} \text { Qty } \\ \text { (Each) } \\ \hline \end{gathered}$ | Total Cost (\$ M) | Unit Cost (\$M) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | Total Cost (\$ M) | $\begin{gathered} \text { Unit Cost } \\ (\$ M) \end{gathered}$ | $\begin{gathered} \text { Qty } \\ \text { (Each) } \\ \hline \end{gathered}$ | Total Cost <br> (\$ M) | Unit Cost (\$ M) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | Total Cost (\$ M) | Unit Cost (\$ M) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \\ \hline \end{gathered}$ | Total Cost <br> (\$M) | $\begin{array}{\|c} \substack{\text { Unit Cost } \\ (\$ M)} \\ \hline \end{array}$ | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | Total Cost <br> (\$ M) |
| Hardware-Hardware End Item Cost |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| IGS | A | - | - | - | - | - | - | 0.421 | 2 | 0.842 | 0.456 | 1 | 0.456 | - | - | - | 0.456 | 1 | 0.456 |
| SEON | A | - | - | - | - | - | - | 0.599 | 1 | 0.599 | 0.599 | 1 | 0.599 | - | - | - | 0.599 | 1 | 0.599 |
| tapout | A | - | - | - | - | - | - | 1.036 | 8 | 8.284 | - | - | - | - | - | - | - | - | - |
| SPARES-TAPOUT | A | - | - | - | - | - | - | - | - | - | 0.003 | 16 | 0.054 | - | - | - | 0.003 | 16 | 0.054 |
| Subtotal: Hardware-Hard Item Cost | ware End | - | - | - | - | - | - - | - | - | 9.725 | - | . | 1.109 | - | - | - | . | . | 1.109 |
| Support-Support End Item Cost |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| INSTALLATION-IGS | A | - | - | - | - | - | - | 2.082 | 2 | 4.163 | 2.180 | 1 | 2.180 | - | - | - | 2.180 | 1 | 2.180 |
| SHIPPING-TAPOUT | A | - | - | - | - | - | - | - | - | - | 0.026 | 16 | 0.408 | - | - | - | 0.026 | 16 | 0.408 |
| SITE CONSTRUCTION. TAPOUT | A | - | - | - | - | - | - - | - | - | - | 0.079 | 6 | 0.477 | - | - | - | 0.080 | 6 | 0.477 |
| LEASING EXPENSES-TAPOUT | A | - | - | - | - | - | - - | - | - | - | 0.070 | 16 | 1.126 | - | - | - | 0.070 | 16 | 1.126 |
| Subtotal: Support-Support End Item Cost |  | - | - | - | - | - | - - | - | - | 4.163 | - | - | 4.191 | - | - | - | - | - | 4.191 |
| Total |  | - | - | - | - | - | - | - | - | 13.888 | - | - | 5.300 | - | - | - | - | - | 5.300 |

UNCLASSIFIED

| Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2024 Air Force Da |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Date: March 2023 <br> Aggregated Items Title: <br> Weather Service |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3022F / 01 / 10 |  |  |  |  |  |  |  | P-1 Line Item Number / Title: SPCMOD / Space Mods |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  | rior Year |  | FY 2022 |  |  | FY 2023 |  |  | FY 2024 Base |  |  | FY 2024 OCO |  |  | FY 2024 Total |  |  |
| Item Number / Title [DODIC] | $\left.\begin{array}{\|l\|} \mathrm{ID} \\ \mathrm{CD} \end{array} \right\rvert\,$ | $\begin{aligned} & \text { MDAP/ } \\ & \text { MAIS } \\ & \text { Code } \end{aligned}$ | Unit Cost (\$ M) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost (\$ M) | Unit Cost (\$ M) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | Total Cost (\$ M) | Unit Cost (\$ M) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost <br> (\$ M) | Unit Cost (\$ M) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | Total Cost <br> (\$ M) | Unit Cost (\$ M) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | Total <br> Cost <br> (\$ M) | Unit Cost (\$ M) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | Total Cost (\$ M) |
| Hardware-Hardware End Item Cost |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| MARK IV-B | A |  | - | - | - | - |  | - - | 1.272 | 1 | 1.272 | 0.306 | 1 | 0.306 | - | - | - | 0.306 | 1 | 0.306 |
| Subtotal: Hardware-Hardware End Item Cost |  |  | - | - | - | - | - | - - | - | - | 1.272 | - | - | 0.306 | - | - | - | - | - | 0.306 |
| Support-Support End Item Cost |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Installation MARK IV- B | A |  | - | - | - | - | - | - - | - | - | - | 0.234 | 2 | 0.468 | - | - | - | 0.234 | 2 | 0.468 |
| Subtotal: Support-Support End Item Cost |  |  | - | - | - | - |  | - - | - | - | - | - | - | 0.468 | - | - | - | - | - | 0.468 |
| Total |  |  | - | - | - | - |  | - - | - | - | 1.272 | - | - | 0.774 | - | - | - | - | - | 0.774 |

## THIS PAGE INTENTIONALLY LEFT BLANK

Exhibit P-40, Budget Line Item Justification: PB 2024 Air Force
Date: March 2023

## Appropriation / Budget Activity / Budget Sub Activity:

3022F: Procurement, Space Force / BA 01: Space Procurement, SF / BSA 10: Space Programs

## P-1 Line Item Number / Title:

SPRNGE / Spacelift Range System Space


Line Item MDAP/MAIS Code: N/A

| Resource Summary | Prior <br> Years | FY 2022 | FY 2023 | $\text { FY } 2024$ Base | $\begin{gathered} \text { FY } 2024 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \text { FY } 2024 \\ \text { Total } \end{gathered}$ | FY 2025 | FY 2026 | FY 2027 | FY 2028 | To Complete | Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Procurement Quantity (Units in Each) | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Cost (\$ in Millions) | 14.458 | 93.773 | 71.712 | 114.505 | - | 114.505 | 108.701 | 108.477 | 111.233 | 113.568 | - | 736.427 |
| Less PY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Net Procurement (P-1) (\$ in Millions) | 14.458 | 93.773 | 71.712 | 114.505 | - | 114.505 | 108.701 | 108.477 | 111.233 | 113.568 | - | 736.427 |
| Plus CY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Total Obligation Authority (\$ in Millions) | 14.458 | 93.773 | 71.712 | 114.505 | - | 114.505 | 108.701 | 108.477 | 111.233 | 113.568 | - | 736.427 |
| (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:










 modernize the most critical mission equipment and procure replacement components.

1) LTRS Replenishment Spares Procurement: Provides peculiar and common support material, required re-procurement data, and interim supply support management.
 used for Systems Engineering and Integration (SE\&I) to ensure baseline documentation and modernization activities remain synchronized with the sustainment baseline.



 dispersed and disaggregated deployment concepts.

## Appropriation / Budget Activity / Budget Sub Activity: <br> 3022F: Procurement, Space Force / BA 01: Space Procurement, SF I BSA 10:

 Space Programs

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

4) Range Communications Facility (RCF): Relocate communications capabilities from the Eastern Range XY building to a new RCF, resolving building degradation, code non-compliance, and high risk offloading. The Space Force will either move existing equipment or procure new COTS equipment if necessary, to meet system requirements and minimize impacts to scheduled launches.
5) Range Command Destruct Modernization (RCDM): Modernizes the Eastern Range Command Destruct Systems. The Range Command Destruct modernization will provide the capability to use a new secure Command Destruct code, the Enhanced Flight Termination System (EFTS), mandated by the NSA for cyber security on the Eastern Range. The Eastern Range Command Destruct system will replace a sustainment "worst actor" that has been the cause of an expensive launch scrub as well as several near scrubs.
6) Modernization of Eastern Range Network (MEN): Upgrades the communications subsystem on the Eastern Range from outdated Asynchronous Transfer Mode (ATM) technology to Internet Protocol (IP) version $4 / 6$ (IPV4/IPV6). MEN resolves obsolescence issues facing the program, addresses high-priority sustainment issues, and provides improved cyber security for range operations. The contract was awarded as a small business set-aside.
7) Western Range Modernization of Network (WMN): Upgrades the communications subsystem on Western Range from Asynchronous Transfer Mode (ATM) technology to an IPv6 based/IPv4 compatible network, resolving obsolescence issues, numerous high-priority sustainment issues, and providing improved cyber security for range operations. The WMN contract was awarded as a small business set aside.
8) Digital Transformation (previously: Digital Edge Modernization (DEM)): Transforms Eastern Range (ER) and Western Range (WR) Launch and Test Range System (LTRS) sensors and systems providing data, video, and communications to conduct data-driven command and control (C2) of launch operations. The information-intensive transformation from siloed LTRS systems to an interconnected ecosystem integrating information, applications, and sensors will provide on-demand, automated and scalable data and operational services to meet continuously evolving government and industry launch and test requirements. Digital transformation will enable a commercial standard LTRS ecosystem, leveraging enterprise cloud services and modern software development strategies to deliver resilient capability at speed while flexibly integrating launch operations data and applications across the 12 LTRS subsystems. Digital Transformation will adapt LTRS to accommodate flexible, responsive, and affordable launch, recovery, and test and evaluation operations allowing scalability for accelerating launch capacity and cadence.

ROTF Projects will enable agile and resilient LTRS operations following full Autonomous Flight Safety System (AFSS) implementation on ER and WR. LTRS must support non-AFSS equipped Major Range and Test Facility Base (MRTFB) activities through 2030.

Space acquisition must respond with speed and agility to pacing and emerging adversary threats. Space Systems Command (SSC) has transformed the organization and implementation of space acquisition to an enterprise approach, to increase innovation and resiliency, leveraging international, commercial, and mission partnerships, and managing program/project priorities according to an integrated unclassified classified enterprise space architecture. Expanding the appropriate acquisition authorities and contract mechanisms to deliver capability sooner, SSC will strategically execute experimentation, prototyping, risk reduction, and other efforts to develop new or repurpose existing capabilities.

Funding for this exhibit is contained in PE 1203182SF.

Exhibit P-40, Budget Line Item Justification: PB 2024 Air Force
Date: March 2023

## Appropriation / Budget Activity / Budget Sub Activity:

3022F: Procurement, Space Force / BA 01: Space Procurement, SF / BSA 10: Space Programs

|  |  |  | ID Code (A=Service Ready, B=Not Service Ready): |
| :--- | :--- | :--- | :--- |
| Program Elements for Code B Items: 1203182SF | Other Related Program Elements: 1203182SF |  |  |

Line Item MDAP/MAIS Code: N/A

| Exhibits Schedule |  |  |  |  | Prior Years | FY 2022 | FY 2023 | FY 2024 Base | FY 2024 OCO | FY 2024 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-5 | Space Lift Range System Modernization |  | A |  | 1 | - 183.315 | - /61.567 | - /106.382 | - 1 | - / 106.382 |
| P-40a | Space Lift Range System Modifications |  |  |  | - 15.749 | - 14.480 | - /1.745 | - 10.023 | - 10.000 | - 10.023 |
| P-3a | 1 / Range Communications Facility (RCF) (Reliability \& Maintainability) |  | B |  | - 18.709 | - 15.978 | - 18.400 | - 18.100 | - 10.000 | - 18.100 |
| P-40 | Total Gross/Weapon System Cost |  |  |  | - /14.458 | - 193.773 | - 171.712 | - /114.505 | - | - /114.505 |
| Exhibits Schedule |  |  |  |  | FY 2025 | FY 2026 | FY 2027 | FY 2028 | To Complete | 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-5 | Space Lift Range System Modernization |  | A |  | 1 | - 1 | - 1 - | - 1 | - 1 | - 1 |
| P-40a | Space Lift Range System Modifications |  |  |  | - 10.000 | - 10.000 | - 10.000 | - 10.000 | - 10.000 | - / 11.997 |
| P-3a | $1 /$ Range Communications Facility (RCF) (Reliability \& Maintainability) |  | B |  | - 10.000 | - 10.000 | - 1 - | - 1 - | - 1 | - /31.187 |
| P-40 | Total Gross/Weapon System Cost |  |  |  | - /108.701 | - /108.477 | - /111.233 | - /113.568 | - 1 | - 1736.427 |

 Note: Totals in this Exhibit P-40 set may not be exact or sum exactly due to rounding.

## Justification:


 Range Asset/Range Item Development Integration into the Range of FY2024 delivered modernized end items.

LTRS Interim Supply Support (P-5): FY 2024 funds will continue to provide LTRS supply support to include spares, spares management support, and management support in preparation of delivering ROTF modernized systems and preparing for Digital Transformation.

LTRS Support Services (P-5): FY 2024 funds will continue FFRDC mission assurance and procurement and research and development to ensure LTRS remains technically compatible with launch mission assurance and mission safety. Funds will continue SE\&I and program management supporting LTRS system engineering baseline currency throughout modernization and Digital Transformation program acquisition and research and development activities.

Digital Transformation (previously Digital Edge Modernization (DEM)) FY 2024 funds will procure Next Gen Radar Open System Architecture (ROSA) Integration (19.134) ROSA III Operational Segment Integration; 0.134 Radar Control Segment ROSA II Upgrade, and Phase 3 Modernization of WR Operations (MOWRO) including deployment of increased voice and video data capacity.

RCDM (P-40a): No FY 2024 funding requested. RCDM completed in Oct 22 and transitioned to sustainment.
WMN (P-40a): FY 2024 funds will support DISA Leased Lines for the program. WMN will complete in FY24 and transition to sustainment.
RCF (P-3a): FY 2024 funds will complete Phase 3C to include the dispositioning of remaining mission equipment, dispositioning of general equipment, and any other pre-demolition efforts within the XY building.

UNCLASSIFIED

| Exhibit P-40, Budget Line Item Justification: PB 2024 Air Force | Date: March 2023 |
| :--- | :--- | :--- |
| Appropriation / Budget Activity / Budget Sub Activity: | P-1 Line Item Number / Title: |
| 3022F: Procurement, Space Force / BA 01: Space Procurement, SF / BSA 10: | SPRNGE / Spacelift Range System Space |
| Space Programs |  |

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

Program Elements for Code B Items: 1203182SF
Other Related Program Elements: 1203182SF

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

 not limited to, program office support, studies, technical analysis, etc.
 follows:
${ }^{(a)}$ FY 2025 Cost Delta: 108.701 million
(b) FY 2026 Cost Delta: 108.477 million
${ }^{\text {(c) }}$ FY 2027 Cost Delta: 111.233 million
(d) FY 2028 Cost Delta: 113.568 million
${ }^{(e)}$ FY Total Cost Delta: 693.243 million

## UNCLASSIFIED

Exhibit P-5, Cost Analysis: PB 2024 Air Force

## Appropriation / Budget Activity / Budget Sub Activity:

3022F / 01 / 10
ID Code (A=Service Ready, B=Not Service Ready) : A

## P-1 Line Item Number / Title:

SPRNGE / Spacelift Range System Space

Date: March 2023
Item Number / Title [DODIC]
Space Lift Range System Modernization

| Resource Summary | Prior Years | FY 2022 | FY 2023 | FY 2024 Base | FY 2024 OCO | FY 2024 Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Procurement Quantity (Units in Each) | - | - | - | - | - | - |
| Gross/Weapon System Cost (\$ in Millions) | - | 83.315 | 61.567 | 106.382 | - | 106.382 |
| Less PY Advance Procurement (\$ in Millions) | - | - | - | - | - | - |
| Net Procurement (P-1) (\$ in Millions) | - | 83.315 | 61.567 | 106.382 | - | 106.382 |
| Plus CY Advance Procurement (\$ in Millions) | - | - | - | - | - | - |
| Total Obligation Authority (\$ in Millions) | - | 83.315 | 61.567 | 106.382 | - | 106.382 |
| (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) | - | - | - | - | - | - |

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

|  | Prior Years |  |  | FY 2022 |  |  | FY 2023 |  |  | FY 2024 Base |  |  | FY 2024 OCO |  |  | FY 2024 Total |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Cost Elements | Unit Cost (\$ M) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | Total Cost <br> (\$M) | Unit Cost (\$ M) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost <br> (\$ M) | Unit Cost <br> (\$ M) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost <br> (\$ M) | Unit Cost (\$ M) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | Total Cost <br> (\$ M) | Unit Cost (\$ M) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | Total Cost <br> (\$ M) | Unit Cost (\$ M) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost <br> (\$ M) |
| Hardware - Spacelift Range System Space Cost |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Non Recurring Cost |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Commodities Procurement | - | - | - | 46.132 | 1 | 46.132 | - | - | 23.742 | 67.374 | 1 | 67.374 | - | - | - | 67.374 | 1 | 67.374 |
| Subtotal: Non Recurring Cost | - | - | - | - | - | 46.132 | - | - | 23.742 | - | - | 67.374 | - | - | - | - | - | 67.374 |
| Subtotal: Hardware Spacelift Range System Space Cost | - | - | - | - | - | 46.132 | - | - | 23.742 | - | - | 67.374 | - | - | - | - | - | 67.374 |

Logistics - Spacelift Range System Space Cost

| Interim Supply Support <br> Material (Parts/ <br> Supplies) | - | - | - | - | - | 5.076 | - | - | 6.898 | - | - | 7.451 | - | - | - | - | - | 7.451 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Technical Mission Analysis | - | - | - | - | - | 4.756 | - | - | 4.342 | - | - | 4.473 | - | - | - | - | - | 4.473 |
| Enterprise Systems Engineering and Integration | - | - | - | - | - | 15.960 | - | - | 15.800 | - | - | 15.900 | - | - | - | - | - | 15.900 |
| Subtotal: Recurring Cost | - | - | - | - | - | 25.792 | - | - | 27.040 | - | - | 27.824 | - | - | - | - | - | 27.824 |
| Subtotal: Logistics - Spacelift Range System Space Cost | - | - | - | - | - | 25.792 | - | - | 27.040 | - | - | 27.824 | - | - | - | - | - | 27.824 |
| Support - Spacelift Range System Space Cost |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| FFRDC | - | - | - | - | - | 0.000 | - | - | 0.000 | - | - | - | - | - | - | - | - | - |
| Advisory and Assistance Services (A\&AS) | - | - | - | - | - | 6.471 | - | - | 6.600 | - | - | 6.554 | - | - | - | - | - | 6.554 |

UNCLASSIFIED

| Exhibit P-5, Cost Analysis: PB 2024 Air Force |  |  |  |  |  |  |  |  |  |  |  |  |  | Date: March 2023 |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3022F / 01 / 10 |  |  |  |  |  | P-1 Line Item Number / Title: SPRNGE / Spacelift Range System Space |  |  |  |  |  |  |  | Item Number / Title [DODIC]: <br> Space Lift Range System Modernization |  |  |  |  |
| ID Code (A=Service Ready, $\mathrm{B}=$ Not Service Ready) : A |  |  |  |  |  |  |  |  |  | MDAP/MAIS Code: |  |  |  |  |  |  |  |  |
| Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding. |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | Prior Years |  |  | FY 2022 |  |  | FY 2023 |  |  | FY 2024 Base |  |  | FY 2024 OCO |  |  | FY 2024 Total |  |  |
| Cost Elements | Unit Cost (\$ M) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost (\$ M) | Unit Cost $(\$ M)$ | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | Total Cost <br> (\$ M) | Unit Cost (\$ M) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | Total Cost <br> (\$ M) | Unit Cost $(\$ M)$ | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | Total Cost <br> (\$ M) | Unit Cost (\$ M) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost (\$ M) | Unit Cost (\$ M) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | Total Cost <br> (\$ M) |
| Other Support | - | - | - | - | - | 4.920 | - | - | 4.185 | - | - | 4.630 | - | - | - | - | - | 4.630 |
| Subtotal: Support - Spacelift Range System Space Cost | - | - | - | - | - | 11.391 | - | - | 10.785 | - | - | 11.184 | - | - | - | - | - | 11.184 |
| Gross/Weapon System Cost | - | - | - | - | - | 83.315 | - | - | 61.567 | - | - | 106.382 | - | - | - | - | - | 106.382 |

## Remarks:

- Unit quantities and costs vary widely for multiple types and configurations of equipment being procured under modernization and sustainment project cost elements each fiscal year.

UNCLASSIFIED

| Exhibit P-40a, Budget Item Justification For Aggregated Modification Items: PB 2024 Air Force |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Date: March 2023 |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3022F / 01 / 10 |  |  |  |  |  |  |  | P-1 Line Item Number / Title: <br> SPRNGE / Spacelift Range System Space |  |  |  |  |  |  |  | Aggregated Modification Items Title: Space Lift Range System Modifications |  |  |  |  |
|  | $\begin{aligned} & \text { ID } \\ & \text { CD } \end{aligned}$ | MDAP/ MAIS Code | Prior Years |  |  | FY 2022 |  |  | FY 2023 |  |  | FY 2024 Base |  |  | FY 2024 OCO |  |  | FY 2024 Total |  |  |
| Item Number / Title |  |  | Unit Cost (\$ M) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | Total Cost (\$ M) | Unit Cost (\$ M) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost <br> (\$ M) | Unit Cost (\$ M) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost (\$ M) | Unit Cost (\$ M) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | Total Cost (\$ M) | Unit Cost (\$ M) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost <br> (\$ M) | Unit Cost (\$ M) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost <br> (\$ M) |
| 02-WMN / Western Range Modernization of Network (WMN) |  |  | - | - | 1.981 | - | - | 3.409 | - | - | 1.745 | - | . | 0.023 | - | - | - | - | - | 0.023 |
| 03-RCDM / Range Command Destruct Modernization (RCDM) |  |  | - | - | 3.768 | - | - | 1.071 | - | - | - | - | - | - | - | - | - | - | - | - |
| Total |  |  | - | - | 5.749 | - | - | 4.480 | - | - | 1.745 | - | - | 0.023 | - | - | 0.000 | - | - | 0.023 |
|  |  |  | FY 2025 |  |  | FY 2026 |  |  | FY 2027 |  |  | FY 2028 |  |  | To Complete |  |  | Total Cost |  |  |
| Item Number / Title | $\begin{aligned} & \text { ID } \\ & \text { CD } \end{aligned}$ | MDAP/ <br> MAIS <br> Code | Unit Cost (\$ M) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost (\$ M) | Unit Cost (\$ M) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost <br> (\$ M) | Unit Cost (\$ M) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost (\$M) | Unit Cost (\$ M) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost (\$ M) | Unit Cost (\$ M) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost <br> (\$ M) | Unit Cost (\$ M) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost <br> (\$ M) |
| 02-WMN / Western Range Modernization of Network (WMN) |  |  | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 7.158 |
| 03-RCDM / Range Command Destruct Modernization (RCDM) |  |  | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 4.839 |
| Total |  |  | - | - | 0.000 | - | - | 0.000 | - | - | 0.000 | - | - | 0.000 | - | - | 0.000 | - | - | 11.997 |

Note: Subtotals or Totals in this Exhibit P-40a may not be exact or sum exactly, due to rounding.
Modification Information:

| Item Number / Title | Models of Systems Affected | Modification Type |
| :--- | :--- | :--- |
| 02-WMN / Western Range <br> Modernization of Network (WMN) | WMN | Capability Improvement |
| 03-RCDM / Range Command Destruct <br> Modernization (RCDM) | RCDM | Capability Improvement |

UNCLASSIFIED

| Exhibit P-3a, Individual Modification: PB 2024 Air Force |  |  |  |  |  |  |  |  | Date: March 2023 |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity:$3022 \mathrm{~F} / 01 / 10$ |  |  |  | P-1 Line Item Number / Title: SPRNGE I Spacelift Range System Space |  |  |  |  | Modification Number / Title: <br> 1 / Range Communications Facility (RCF) |  |  |  |
| ID Code (A=Service Ready, B=Not Service Ready) : B |  |  |  |  |  | MDAP/MAIS Code: |  |  |  |  |  |  |
| Resource Summary | Prior Years | FY 2022 | FY 2023 | FY 2024 Base | $\begin{gathered} \hline \text { FY } 2024 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \text { FY } 2024 \\ \text { Total } \end{gathered}$ | FY 2025 | FY 2026 | FY 2027 | FY 2028 | To Complete | Total |
| Procurement Quantity (Units in Each) | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Cost (\$ in Millions) | 8.709 | 5.978 | 8.400 | 8.100 | 0.000 | 8.100 | 0.000 | 0.000 | - | - | - | 31.187 |
| Less PY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Net Procurement (P-1) (\$ in Millions) | 8.709 | 5.978 | 8.400 | 8.100 | 0.000 | 8.100 | 0.000 | 0.000 | - | - | - | 31.187 |
| Plus CY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Total Obligation Authority (\$ in Millions) | 8.709 | 5.978 | 8.400 | 8.100 | 0.000 | 8.100 | 0.000 | 0.000 | - | - | - | 31.187 |
| (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: |  |  |  |  |  |  |  |  |  |  |  |  |
| FY 2024 funding for the RCF Program will be applied to Phase 3C. |  |  |  |  |  |  |  |  |  |  |  |  |
| Phase 3 C will include the dispositioning of remaining mission equipment, dispositioning of general equipment, and any other pre-demolition efforts within the XY building. This will be contracted through RGNext and must complete within the FY. |  |  |  |  |  |  |  |  |  |  |  |  |
| Milestone/Development Status |  |  |  |  |  |  |  |  |  |  |  |  |
| Post Milestone C - Production and Development Phase |  |  |  |  |  |  |  |  |  |  |  |  |

## UNCLASSIFIED



UNCLASSIFIED


| Exhibit P-40, Budget Line Item Justification: PB 2024 Air Force |  |  |  |  |  |  |  |  | Date: March 2023 |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: <br> 3022F: Procurement, Space Force / BA 02: Spares / BSA 20: Spares |  |  |  |  |  | P-1 Line Item Number / Title: SSPARE / Spares and Repair Parts |  |  |  |  |  |  |
| ID Code (A=Service Ready, B=Not Service Ready): |  |  | Program Elements for Code B Items: N/A |  |  |  |  | Other Related Program Elements: N/A |  |  |  |  |
| Line Item MDAP/MAIS Code: N/A |  |  |  |  |  |  |  |  |  |  |  |  |
| Resource Summary | Prior Years | FY 2022 | FY 2023 | FY 2024 Base | $\begin{gathered} \text { FY } 2024 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \text { FY } 2024 \\ \text { Total } \end{gathered}$ | FY 2025 | FY 2026 | FY 2027 | FY 2028 | To Complete | Total |
| Procurement Quantity (Units in Each) | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Cost (\$ in Millions) | 0.000 | 1.282 | 1.352 | 0.906 | - | 0.906 | 0.920 | 0.939 | 0.965 | 0.986 | 0.000 | 7.350 |
| Less PY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Net Procurement (P-1) (\$ in Millions) | 0.000 | 1.282 | 1.352 | 0.906 | - | 0.906 | 0.920 | 0.939 | 0.965 | 0.986 | 0.000 | 7.350 |
| Plus CY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Total Obligation Authority (\$ in Millions) | 0.000 | 1.282 | 1.352 | 0.906 | - | 0.906 | 0.920 | 0.939 | 0.965 | 0.986 | 0.000 | 7.350 |
| (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:

Initial Spares consist of reparable components, assemblies, sub-assemblies, and consumable items required as initial stock (including readiness spares package requirements) in support of space acquisition programs. Requirements are determined by applying established factors against the acquisition cost of the end items. The factors are based on historical data of similar equipment, employment/deployment concepts, production schedules, and other related information.

This line contains funding for the following program:
Information Systems Security Program

## Justification:

Justification:
The FY24 budget supports initial spares for the following program: Information Systems Security Program.
PE 1203140SF Information Systems Security Program: FY24 funding (\$0.906M) is required to supply crypto devices for space and ground nodes, used by all Services/Agencies, to meet an NSA cybersecurity mandates.

## THIS PAGE INTENTIONALLY LEFT BLANK

Exhibit P-40, Budget Line Item Justification: PB 2024 Air Force
Date: March 2023

## Appropriation / Budget Activity / Budget Sub Activity:

3022F: Procurement, Space Force / BA 04: Other Base Maintenance and Support Equipment / BSA 41: Support Equipment

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

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

| Resource Summary | Prior <br> Years | FY 2022 | FY 2023 | $\begin{gathered} \text { FY } 2024 \\ \text { Base } \end{gathered}$ | $\begin{gathered} \text { FY } 2024 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \text { FY } 2024 \\ \text { Total } \end{gathered}$ | FY 2025 | FY 2026 | FY 2027 | FY 2028 | To Complete | Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Procurement Quantity (Units in Each) | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Cost (\$ in Millions) | - | 0.000 | 0.000 | 3.100 | - | 3.100 | 3.184 | 3.271 | 3.360 | 3.429 | - | 16.344 |
| Less PY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Net Procurement (P-1) (\$ in Millions) | - | 0.000 | 0.000 | 3.100 | - | 3.100 | 3.184 | 3.271 | 3.360 | 3.429 | - | 16.344 |
| Plus CY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Total Obligation Authority (\$ in Millions) | - | 0.000 | 0.000 | 3.100 | - | 3.100 | 3.184 | 3.271 | 3.360 | 3.429 | - | 16.344 |
| (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:




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

Funding for this exhibit contained in PE 0207510F

## Justification:

This program is a new start.
Transfers Space Force proportional funds from Air Force to provide technical/engineering support, acquisition, fielding and sustainment of PCCIE systems.
To guarantee continuation of operations in the event of power surges or failures PCCIE is the last line of defense for critical intelligence, satellite, radar, airfield and computer systems FY 24 funds procure
The new systems collectively satisfy critical user requirements and will:

1. Reduce overall footprint and weight by $50-60 \%$.
2. Reduce operating and sustainment costs by $30 \%-50 \%$.
3. Reduce acquisition costs as it applies to installation since many newer systems consist of more internal pre-wiring.
4. Lower parts count dramatically improves reliability by reducing the potential points of failure within the system.
5. Produce greater energy savings and higher operating efficiency in all configurations, typically between $92 \%$ and $93.5 \%$; with all types of loads.

## THIS PAGE INTENTIONALLY LEFT BLANK


[^0]:    *Includes enacted funding in the Ukraine Supplemental Appropriation Act, 2023 (Division B of Public Law 117-180) and Additional Ukraine Supplemental Appropriation Act, 2023 (Division M of Public Law 117-328).

