UNCLASSIFIED
Department of Defense
Fiscal Year (FY) 2021 Budget Estimates
February 2020


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

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## UNCLASSIFIED

## Appropriation Language Fiscal Year (FY) 2021 President's Budget Other Procurement, Air Force

For procurement and modification of equipment (including ground guidance and electronic control equipment, and ground electronic and communication equipment), and supplies, materials, and spare parts therefor, not otherwise provided for; the purchase of passenger motor and 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, contractor-owned equipment layaway, classified programs, and overseas contingency operations, $\$ 24,051,059,000$ to remain available for obligation until September 30, 2023.

FY 2021 Overseas Contingency Operations funding can be separated into the following categories:

- OCO for Direct War Costs: OCO costs are those combat or direct combat support costs that will not continue to be expended once combat operations end at major contingency locations.
- OCO for Enduring Requirements: OCO for Enduring Requirements are enduring in-theater and in-CONUS costs that will likely remain after combat operations cease, and have previously been funded in OCO.
- OCO for Base Requirements: OCO for Base Requirements is OCO funding for base budget requirements in support of the National Defense Strategy. The Budget requests these funds in OCO to comply with the base budget defense caps included in the Budget Control Act of 2011.


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Department of the Air Force<br>FY 2021President's Budget Exhibit P-1 FY 2021 President's Budget<br>Total Obligational Authority<br>(Dollars in Thousands)

Appropriation: Other Procurement, Air Force
Budget Activity
--------------
02. Vehicular Equipment
03. Electronics and Telecommunications Equip
04. Other Base Maintenance and Support Equip
05. Spares and Repair Parts
Total Other Procurement, Air Force

$$
\begin{gathered}
\text { FY } 2019 \\
\text { (Base + oco) }
\end{gathered}
$$

$$
\begin{array}{r}
482,779 \\
1,488,692
\end{array}
$$

$$
22,560,041
$$

93,965
$24,625,477$

FY 2020 Base Enacted

231,775
$1,498,434$
19,598,472
81,340
21,410,021
21,

FY 2020 Emergency

4,102
19,934
49,563
4,375
77,974
3,748,801

[^0]Appropriation: Other Procurement, Air Force

## Budget Activity

2. Vehicular Equipment
3. Electronics and Telecommunications Equip
4. Other Base Maintenance and Support Equip
5. Spares and Repair Parts

Total Other Procurement, Air Force

FY 2020
Total Enacted
(Base+Emerg+
OCO)
_-_-_-_-_-_-_-

## FY 2021 Base

FY 2021 OCO for Base Requirements

FY 2021
OCO for
Direct War and Enduring
Costs
--------------

160,063

$$
92,313
$$

$$
98,963
$$

4,000
355,339

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

Appropriation: Other Procurement, Air Force

Budget Activity
--------
02. Vehicular Equipment
03. Electronics and Telecommunications Equip
04. Other Base Maintenance and Support Equip
05. Spares and Repair Parts

Total Other Procurement, Air Force

| FY 2021 |  |
| :---: | ---: |
| Total |  |
| OCO | FY 2021 <br> Total <br> (Base + OCO) |
| 160,063 | $-\quad 366,326$ |
| 92,313 | $1,374,885$ |
| 98,963 | $22,288,337$ |
| 4,000 | 21,511 |
| 355,339 | $24,051,059$ |

# Department of the Air Force <br> FY 2021President's Budget <br> Exhibit P-1 FY 2021 President's Budget <br> Total Obligational Authority 

(Dollars in Thousands)
Appropriation: 3080F Other Procurement, Air Force

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


|  | FY 2019 |  |
| :---: | :---: | :---: |
| Ident | (Base | OCO) |
| Code | Quantity | Cost |


| FY 2020 |  |
| :---: | :---: |
| Base Enacted |  |
| Quantity | Cost |
| -------- | ---- |

FY 2020
Emergency
Quantity $\quad$ Cost
$--------\quad$----

| FY 2020 | S |
| :---: | :---: |
| OCO Enacted | e |
| Quantity | Cost |
| -------- | C--- |

Budget Activity 02: Vehicular Equipment
--------------------

Passenger Carrying Vehicles
1 Passenger Carrying Vehicles
A

14,669
15,238
126
1,276 U
Cargo and Utility Vehicles
2 Medium Tactical Vehicle
A
45,682
34,616
3 Cap Vehicles
1,700
1,700
994
U
4 Cargo and Utility Vehicles
63,636
23,133
Special Purpose Vehicles
5 Joint Light Tactical Vehicle
46. 177

32,027
6 Security And Tactical Vehicles
7 Special Purpose Vehicles

$$
1,113
$$

1,315
A
Fire Fighting Equipment
8 Fire Fighting/Crash Rescue Vehicles
A
78,383
14,593

Materials Handling Equipment
9 Materials Handling Vehicles
A
36,217
21,848
276
Base Maintenance Support
10 Runway Snow Remov And Cleaning Equ
47,280
2,925
11 Base Maintenance Support Vehicles
A
114,603
55,776
$2,944 \mathrm{U}$

3,753 U
9,702 U
$40,999 \mathrm{U}$
U
$16,652 \mathrm{U}$
$11,837 \mathrm{U}$

# Department of the Air Force FY 2021President's Budget Exhibit P-1 FY 2021 President's Budget <br> Total Obligational Authority <br> (Dollars in Thousands) 

Appropriation: 3080F Other Procurement, Air Force

|  |  | Ident | FY 2020 |  | FY 2021 |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Total Enacted (Base+Emerg+ | FY 2021 |  | FY OCO | Base | Direc and En | $\begin{aligned} & \text { War } \\ & \text { ring } \end{aligned}$ |
| Line |  |  |  |  |  |  | Requir | nts | Cos |  |
| No | Item Nomenclature |  | Code | Quantity | Cost | Quantity | Cost | Quantity | Cost | Quantity | Cost |

Budget Activity 02: Vehicular Equipment

## Passenger Carrying Vehicles

1 Passenger Carrying Vehicles
A

16,640
9,016
$1,302 \mathrm{U}$
Cargo and Utility Vehicles
2 Medium Tactical Vehicle
34,616
15,058
$3,400 \mathrm{U}$
2,694 1,059
U
$12,475 \mathrm{U}$
4 Cargo and Utility Vehicles
32,835
38,920
Special Purpose Vehicles
5 Joint Light Tactical Vehicle
73,026
30,544
26,150 U
$1,315 \quad 319$
U
6 Security And Tactical Vehicles
A
7 Special Purpose Vehicles
67,401
43,157
$51,254 \mathrm{U}$

## Fire Fighting Equipment

8 Fire Fighting/Crash Rescue Vehicles
A
45,256
8,621
$24,903 \mathrm{U}$
Materials Handling Equipment
9 Materials Handling Vehicles
25,068
12,897
14,167 U
Base Maintenance Support
10 Runway Snow Remov And Cleaning Equ
6,678
3,577
$5,759 \mathrm{U}$
$20,653 \mathrm{U}$

P-121PB: FY 2021 President's Budget (Published Version), as of January 22, 2020 at 10:33:23

# Department of the Air Force <br> FY 2021President's Budget <br> Exhibit P-1 FY 2021 President's Budget <br> Total Obligational Authority 

(Dollars in Thousands)
Appropriation: 3080F Other Procurement, Air Force


Budget Activity 02: Vehicular Equipment
--------------------

Passenger Carrying Vehicles
1 Passenger Carrying Vehicles
Cargo and Utility Vehicles
2 Medium Tactical Vehicle

3,400
$18,458 \mathrm{U}$
3 Cap Vehicles
A
4 Cargo and Utility Vehicles
A
12,475
Special Purpose Vehicles
5 Joint Light Tactical Vehicle
6 Security And Tactical Vehicles
A
7 Special Purpose Vehicles
A
56,694 U

Fire Fighting Equipment
8 Fire Fighting/Crash Rescue Vehicles
A
Materials Handling Equipment
9 Materials Handling Vehicles
A

## Base Maintenance Support

10 Runway Snow Remov And Cleaning Equ
5,759
9,336 U
11 Base Maintenance Support Vehicles

| 26,150 | 56,694 | $U$ |
| ---: | ---: | ---: |
| 319 | $U$ |  |
|  | 94,411 | $U$ |

24,903
$33,524 \mathrm{U}$

14,167
27,064 U

20,653
63,748 U
(Dollars in Thousands)
Appropriation: 3080F Other Procurement, Air Force

| LineNo Item Nomenclature | Ident <br> Code | FY 2019 |  | $\begin{gathered} \text { FY } 2020 \\ \text { Base Enacted } \end{gathered}$ |  | FY 2020 <br> Emergency |  | FY 2020 |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | (Base | OCO) |  |  | OCO En | ted |
|  |  | Quantity | Cost | Quantity | Cost |  |  | Quantity | Cost | Quantity | Cost |
| Cancelled Account Adjustments |  |  |  |  |  |  |  |  |  |
| 12 Cancelled Account Adjustments | A |  | 255 |  |  |  |  |  |  |
| Total Vehicular Equipment |  |  | 2,779 |  | 1,775 |  | 4,102 |  | , 665 |

Budget Activity 03: Electronics and Telecommunications Equip

Comm Security Equipment (Comsec)
13 Comsec Equipment

A
104,410
81,461
4,102

U

139,665

## Intelligence Programs

14 International Intel Tech \& Architectures
15 Intelligence Training Equipment A
16 Intelligence Comm Equipment A
Electronics Programs
17 Air Traffic Control \& Landing Sys
A
87,330
22,939
18 Battle Control System - Fixed
2,846
3,063
19 Theater Air Control Sys Improvemen
A
20 Weather Observation Forecast A
21 Strategic Command And Control A
22 Cheyenne Mountain Complex
A
23 Mission Planning Systems
A
24 Drug Interdiction Spt
A

8,290
11,386
1,599 7,619
21,720
32,048

P-121PB: FY 2021 President's Budget (Published Version), as of January 22, 2020 at 10:33:23

Total Obligational Authority
(Dollars in Thousands)
Appropriation: 3080F Other Procurement, Air Force

|  |  | Ident | FY 2020 |  |  |  |  |  | FY 2021 |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Total Enacted (Base+Emerg+ | FY 2021 |  | FY |  | $\begin{aligned} & \text { Dired } \\ & \text { and Er } \end{aligned}$ | $\begin{aligned} & \text { Var } \\ & \text { ing } \end{aligned}$ |
| Line |  |  | OCO) |  | Base |  | Requirements |  | Costs |  |
| No | Item Nomenclature |  | Code | Quantity | Cost | Quantity | Cost | Quantity | Cost | Quantity | Cost |

Cancelled Account Adjustments
12 Cancelled Account Adjustments A
Total Vehicular Equipment

375,542
206,263
$\qquad$
$\qquad$
160,063

Budget Activity 03: Electronics and Telecommunications Equip

Comm Security Equipment(Comsec)
13 Comsec Equipment
A
81,461
54,864
Intelligence Programs
14 International Intel Tech \& Architectures A

| 11,386 | 9,283 |
| ---: | ---: |
| 7,619 | 6,849 |
| 32,048 | 33,471 |

16 Intelligence Comm Equipment A
Electronics Programs

| 17 Air Traffic Control \& Landing Sys | A |
| :--- | :--- |
| 18 Battle Control System - Fixed |  |
| 19 Theater Air Control Sys Improvemen | A |
| 20 Weather Observation Forecast | A |
| 21 Strategic Command And Control | A |
| 22 Cheyenne Mountain Complex | A |
| 23 Mission Planning Systems | A |
| 24 Drug | A |


| 22,939 | 29,409 |
| ---: | ---: |
| 3,063 | 7,909 |
| 31,447 | 32,632 |
| 5,090 | 31,353 |
| 10,145 | 10,314 |
| 14,508 | 15,132 |

P-121PB: FY 2021 President's Budget (Published Version), as of January 22, 2020 at 10:33:23

Department of the Air Force<br>FY 2021President's Budget<br>Exhibit P-1 FY 2021 President's Budget<br>Total Obligational Authority

Appropriation: 3080F Other Procurement, Air Force


Budget Activity 03: Electronics and Telecommunications Equip

Comm Security Equipment (Comsec

| 13 Comsec Equipment | A | 54,864 |
| :---: | :---: | :---: |
| Intelligence Programs |  |  |
| 14 International Intel Tech \& Architectures | A | 9,283 |
| 15 Intelligence Training Equipment | A | 6,849 |
| 16 Intelligence Comm Equipment | A | 33,471 |
| Electronics Programs |  |  |
| 17 Air Traffic Control \& Landing Sys | A | 29,409 |
| 18 Battle Control System - Fixed |  | 7,909 |
| 19 Theater Air Control Sys Improvemen | A | 32,632 |
| 20 Weather Observation Forecast | A | 33,021 |
| 21 Strategic Command And Control | A | 31,353 |
| 22 Cheyenne Mountain Complex | A | 10,314 |
| 23 Mission Planning Systems | A | 15,132 |
| 24 Drug Interdiction Spt | A |  |

P-121PB: FY 2021 President's Budget (Published Version), as of January 22, 2020 at 10:33:23

# Department of the Air Force FY 2021President's Budget Exhibit P-1 FY 2021 President's Budget <br> Total Obligational Authority 

(Dollars in Thousands)
Appropriation: 3080F Other Procurement, Air Force


P-121PB: FY 2021 President's Budget (Published Version), as of January 22, 2020 at 10:33:23

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\begin{aligned}
& \text { Department of the Air Force } \\
& \text { FY 2021President's Budget } \\
& \text { Exhibit P-1 FY } 2021 \text { President's Budget } \\
& \text { Total Obligational Authority }
\end{aligned}
$$

(Dollars in Thousands)
Appropriation: 3080F Other Procurement, Air Force

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

25 Integrated Strat Plan \& Analy Network (ISPAN)

| Id |
| :--- |
| Co |
| -1 |
|  |

Spcl Comm-Electronics Projects
26 General Information Technology A

|  |  |  |  |  | FY |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| FY 2020 |  |  |  |  | OCO |  |
| Total Enacted |  |  | FY 2 |  | Direc | ar |
| (Base+Emerg+ | FY |  | OCO for | Base | and En | ing |
| OCO) |  |  | Requir | nts | Cos |  |
| Quantity Cost | Quantity | Cost | Quantity | Cost | Quantity | Cost |

27 Af Global Command \& Control Sys A

| 36,753 | 39,887 |
| :--- | ---: |
| 2,756 | 2,602 |

28 Battlefield Airborne Control Node (BACN) A
29 Mobility Command And Control A
30 Air Force Physical Security System A
31 Combat Training Ranges A
32 Minimum Essential Emergency Comm N A
33 Wide Area Surveillance (WAS) A
34 C3 Countermeasures A
35 GCSS-AF Fos
36 Defense Enterprise Accounting \& Mgt Sys
A
37 Maintenance Repair \& Overhaul Initiative A
38 Theater Battle Mgt C2 System A
39 Air \& Space Operations Center (AOC) A
40 Spectrum Relocation Fund A
Air Force Communications
41 Base Information Transpt Infrast (BITI) Wired

A
62,280
19,147
131,063
84,515
$5,100 \mathrm{U}$
U

Department of the Air Force<br>FY 2021President's Budget<br>Exhibit P-1 FY 2021 President's Budget<br>Total Obligational Authority

(Dollars in Thousands)
Appropriation: 3080F Other Procurement, Air Force


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# Department of the Air Force FY 2021President's Budget Exhibit P-1 FY 2021 President's Budget <br> Total Obligational Authority 

(Dollars in Thousands)
Appropriation: 3080F Other Procurement, Air Force


Organization and Base
46 Tactical C-E Equipment
47 Radio Equipment
48 CCTV/Audiovisual Equipment
49 Base Comm Infrastructure
7,934
Modifications
50 Comm Elect Mods
A
11,486
------

$$
\begin{aligned}
& ---------1,488,692 \\
& 1,
\end{aligned}
$$

14,500
-----4
$1,498,434$

$$
1,498,434
$$

19,934

143,75
166,249
15,402
2,211
43,123
$4,300 \mathrm{U}$

116,525
U

52 Power Conditioning Equipment A
11,000 U

11,901

23,963
24,500
U

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# Department of the Air Force FY 2021President's Budget Exhibit P-1 FY 2021 President's Budget <br> Total Obligational Authority <br> (Dollars in Thousands) 

Appropriation: 3080F Other Procurement, Air Force


Budget Activity 04: Other Base Maintenance and Support Equip

Personal Safety \& Rescue Equip
51 Personal Safety and Rescue Equipment

A
69,134
49,578
Depot Plant+Mtrls Handling Eq
52 Power Conditioning Equipment
A
11,000
11,454
53 Mechanized Material Handling Equip
A
11,901
12,110
Base Support Equipment
54 Base Procured Equipment
A
48,463
21,142

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                        Department of the Air Force
                        FY 2021President's Budget
Exhibit P-1 FY 2021 President's Budget
Total Obligational Authority
\begin{tabular}{|c|c|c|c|c|c|c|}
\hline \multirow[b]{3}{*}{Line
No Item Nomenclature} & \multirow[b]{3}{*}{Ident Code} & \multicolumn{2}{|c|}{\[
\begin{gathered}
\text { FY } 2021 \\
\text { Total }
\end{gathered}
\]} & \multicolumn{3}{|r|}{\[
\text { FY } 2021
\]} \\
\hline & & \multicolumn{2}{|c|}{OCO} & (Base & + OCO) & e \\
\hline & & Quantity & Cost & Quantity & Cost & C \\
\hline 43 Joint Communications Support Element (JCSE) & A & & & & 6,185 & U \\
\hline 44 USCENTCOM & A & & & & 19,649 & U \\
\hline 45 USSTRATCOM & A & & & & 4,337 & U \\
\hline \multicolumn{7}{|l|}{Organization and Base} \\
\hline 46 Tactical C-E Equipment & A & & & & 137,033 & U \\
\hline 47 Radio Equipment & A & & & & 15,264 & U \\
\hline \(48 \mathrm{CCTV} /\) Audiovisual Equipment & A & & & & & U \\
\hline 49 Base Comm Infrastructure & A & & 30,717 & & 162,998 & U \\
\hline \multicolumn{7}{|l|}{Modifications} \\
\hline 50 Comm Elect Mods & A & & & & 21,471 & U \\
\hline Total Electronics and Telecommunications Equip & & & 92,313 & & 374,885 & \\
\hline
\end{tabular}

Budget Activity 04: Other Base Maintenance and Support Equip Budget Activity 04
Personal Safety \& Rescue Equip
\begin{tabular}{|c|c|c|}
\hline 51 Personal Safety and Rescue Equipment & A & 49,578 \\
\hline Depot Plant+Mtrls Handling Eq & & \\
\hline 52 Power Conditioning Equipment & A & 11,454 \\
\hline 53 Mechanized Material Handling Equip & A & 12,110 \\
\hline Base Support Equipment & & \\
\hline 54 Base Procured Equipment & A & 21,142 \\
\hline
\end{tabular} P-121PB: FY 2021 President's Budget (Published Version), as of January 22, 2020 at 10:33:23

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Department of the Air Force FY 2021President's Budget Exhibit P-1 FY 2021 President's Budget \\ Total Obligational Authority
}

Appropriation: 3080F Other Procurement, Air Force
\begin{tabular}{cl} 
Line & \\
No & Item Nomenclature \\
---- & \(-----------------~\)
\end{tabular}

\section*{Ident \\ Iden}

55 Engineering and EOD Equipment
56 Mobility Equipment
57 Fuels Support Equipment (FSE)
58 Base Maintenance and Support Equipment Special Support Projects

60 DARP RC135
61 DCGS-AF
63 Special Update Program
999 Classified Programs
Total Other Base Maintenance and Support Equip
Budget Activity 05: Spares and Repair Parts

Spares and Repair Parts
64 Spares and Repair Parts (Cyber)
65 Spares And Repair Parts
Total Spares and Repair Parts
Total Other Procurement, Air Force
(Dollars in Thousands)
(Base + OCO) Quantity Cost
FY 2020
Base Enacted
Quantity \(\quad\) Cost
FY 2020
Emergency
Quantity Cost
\[
\begin{array}{cc}
\text { FY } 2020 & \text { S } \\
\text { OCO Enacted } & \text { e } \\
\text { Quantity } & \text { Cost }
\end{array}
\]

A
136,135
87,735
52,060
A A

A


\title{
Department of the Air Force FY 2021President's Budget Exhibit P-1 FY 2021 President's Budget \\ Total Obligational Authority \\ (Dollars in Thousands)
}
Appropriation: 3080F Other Procurement, Air Force


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}
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    Department of the Air Force
    FY 2021President's Budget
    Exhibit P-1 FY 2021 President's Budget
Total Obligational Authority

Appropriation: 3080F Other Procurement, Air Force

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

55 Engineering and EOD Equipment
56 Mobility Equipment

## Ident <br> Code

Code Quantity Cost

| FY 2021 |  |
| :---: | :---: |
| Total | S |
| (Base + OCO) | e |
| Quantity | Cost |
| - | C |
| 20,872 | U |
| 51,960 | U |
| 11,378 | U |
| 73,698 | U |

A
A
A

| 13,172 | 20,872 | U |
| ---: | ---: | ---: |
| 33,694 | 51,960 | U |
| 1,777 | 11,378 | U |
| 31,620 | 73,698 | U |

Special Support Projects
60 DARP RC135
A
A
57 Fuels Support Equipment (FSE)
A
A

61 DCGS-AF
63 Special Update Program
999 Classified Programs
Total Other Base Maintenance and Support Equip
Budget Activity 05: Spares and Repair Parts

Spares and Repair Parts
64 Spares and Repair Parts (Cyber)
65 Spares And Repair Parts

A
A
Total Spares and Repair Parts
Total Other Procurement, Air Force

27,164 U

| 4,000 |
| :---: |
| 4,000 |
| 5,339 |

$1,664 \mathrm{U}$
$140,228 \mathrm{U}$
782,641 U
$21,086,112 \quad \mathrm{U}$
$22,288,337$
98,963

$$
\begin{gathered}
19,847 \text { U }
\end{gathered}
$$

$$
21,511
$$

24,051,059

# UNCLASSIFIED <br> Air Force • Budget Estimates FY 2021 • Procurement 

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

Appropriation 3080F: Other Procurement, Air Force

| Line \# | BA | BSA | Line Item Number | Line Item Title | Page |
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| 1 | 02 | 01 | 821800 | Passenger Carrying Vehicles.. | .Volume 1-1 |
| 2 | 02 | 02 | 822230 | Medium Tactical Vehicle. | Volume 1-7 |
| 3 | 02 | 02 | 822910 | Cap Vehicles... | .Volume 1-13 |
| 4 | 02 | 02 | 822990 | Cargo and Utility Vehicles. | . Volume 1-15 |
| 5 | 02 | 03 | 823210 | Joint Light Tactical Vehicle.. | ..Volume 1-27 |
| 6 | 02 | 03 | 823230 | Security And Tactical Vehicles.. | . Volume 1-33 |
| 7 | 02 | 03 | 823990 | Special Purpose Vehicles. | . Volume 1-35 |
| 8 | 02 | 04 | 824010 | Fire Fighting/Crash Rescue Vehicles.. | . Volume 1-45 |
| 9 | 02 | 05 | 825990 | Materials Handling Vehicles.. | ..Volume 1-51 |
| 10 | 02 | 06 | 826210 | Runway Snow Remov And Cleaning Equ. | .. Volume 1-59 |
| 11 | 02 | 06 | 826990 | Base Maintenance Support Vehicles....... | ..Volume 1-65 |

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## Air Force • Budget Estimates FY 2021 • Procurement

Appropriation 3080F: Other Procurement, Air Force

| Line \# | BA | BSA | Line Item Number | Line Item Title | Page |
| :---: | :---: | :---: | :---: | :---: | :---: |
| 13 | 03 | 01 | 831010 | Comsec Equipment. | Volume 1-77 |
| 14 | 03 | 02 | 832050 | International Intel Tech \& Architectures.. | Volume 1-91 |
| 15 | 03 | 02 | 832060 | Intelligence Training Equipment. | Volume 1-97 |
| 16 | 03 | 02 | 832070 | Intelligence Comm Equipment.. | Volume 1-101 |
| 17 | 03 | 03 | 833010 | Air Traffic Control \& Landing Sys. | Volume 1-117 |
| 18 | 03 | 03 | 833030 | Battle Control System - Fixed.. | Volume 1-129 |
| 19 | 03 | 03 | 833040 | Theater Air Control Sys Improvemen. | Volume 1-131 |
| 20 | 03 | 03 | 833070 | Weather Observation Forecast. | Volume 1-141 |
| 21 | 03 | 03 | 833140 | Strategic Command And Control.. | Volume 1-155 |
| 22 | 03 | 03 | 833160 | Cheyenne Mountain Complex. | Volume 1-167 |
| 23 | 03 | 03 | 833170 | Mission Planning Systems. | Volume 1-177 |
| 24 | 03 | 03 | 833440 | Drug Interdiction Spt.. | Volume 1-183 |
| 25 | 03 | 03 | 833560 | Integrated Strat Plan \& Analy Network (ISPAN). | Volume 1-185 |
| 26 | 03 | 04 | 834010 | General Information Technology.. | Volume 1-189 |
| 27 | 03 | 04 | 834040 | Af Global Command \& Control Sys. | Volume 1-221 |
| 28 | 03 | 04 | 834050 | Battlefield Airborne Control Node (BACN)....... | ..Volume 1-223 |

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| 32 | 03 | 04 | 834210 | Minimum Essential Emergency Comm N.......................................................................... Volume 1-257 |
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(Listing by Model)

## Lookup Matrix by Model

| Model: | CRCPhase1 |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Modification P-40a Aggregated Items Title: |  |  | Theater Air Control System Improvement |  |  |
| Item Number |  | Item Title |  |  | Applies to Multiple Models |
| Uncategorized |  |  |  |  |  |
|  | CRC01 | CRC Phase 1 |  |  | No |
| Model: ${ }^{\text {OMMOD }}$ |  |  |  |  |  |
| Modification P-40a Aggregated Items Title: Theater Air Control System Improvement |  |  |  |  |  |
| Item Number |  |  |  | Item Title | Applies to Multiple Models |
| Uncategorized |  |  |  |  |  |
|  | TYQ23A | AN/TYQ23A OM MOD |  |  | No |


| Model: | RRSVSRadioModernization |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
| P-3a Individual Modifications |  |  |  |  |
| Modification Number |  |  | Modification Title | Applies to Multiple Models |
|  | 1 | CRC RRSVS RADIO MOD UPGRADE |  | No |


| Model: | NWM |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Modification P-40a Aggregated Items Title: |  |  | WOF |  |  |
|  | tem Number |  |  | Item Title | Applies to Multiple Models |
| Uncategorized |  |  |  |  |  |
|  | WOF2 | Numerical Weat | her Modeling (NWM) |  | No |

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| Model: | CheyenneMountainComplex |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
| Modification P-40a Aggregated Items Title: |  |  | COCOM Mobile Command and Control Centers (MCCCs) |  |
|  | tem Number |  | Item Title | Applies to Multiple Models |
| Uncategorized |  |  |  |  |
|  | 002 | Mobile Consolidated Command Center Modification |  | No |
|  | 003 | Mobile Consolidated Command Center Upgrade Block 01 |  | No |
|  | 005 | Mobile Consolidated Command Center Upgrade Block 03 |  | No |
| Modification P-40a Aggregated Items Title: |  |  |  |  |
| Item Number |  |  | Item Title | Applies to Multiple Models |
| Uncategorized |  |  |  |  |
|  | 001 | Core C2 Enterprise Network Infrastructure and Mission Equipment |  | No |
| P-3a Individual Modifications |  |  |  |  |
| Modification Number |  | Modification Title |  | Applies to Multiple Models |
|  | 006 | MCCC Upgrade Block 04 |  | No |


| Model: | CheyenneMounatinComplex |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
| Modification P-40a Aggregated Items Title: |  |  | COCOM Mobile Command and Control Centers (MCCCs) |  |
|  | tem Number |  | Item Title | Applies to Multiple Models |
| Uncategorized |  |  |  |  |
|  | 004 | Mobile Consolid | ated Command Center Upgrade Block 02 | No |


| Model: | NORADCheyenneMountainComplex |  |  |
| :---: | :---: | :---: | :---: |
| Modification P-40a Aggregated Items Title: |  | NCMC - TW/AA System |  |
|  | tem Number | Item Title | Applies to Multiple Models |
| Uncategorized |  |  |  |

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| Model: | NORADCheyenneMountainComplex |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Modification P-40a Aggregated Items Title: |  |  | NCMC - TWIAA System |  |  |
|  | Item Number |  |  | Item Title | Applies to Multiple Models |
|  | NCMCB1 | NORAD Cheyen | ne Mountain Complex Block 01 |  | No |
|  | NCMCB2 | NORAD Cheyen | ne Mountain Complex Block 02 |  | No |
|  | NCMCB3 | NORAD Cheyen | ne Mountain Complex Block 03 |  | No |
|  | NCMCB4 | NORAD Cheyen | ne Mountain Complex Block 04 |  | No |



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| Model: | CombatTrainingRange |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Modification P-40a Aggregated Items Title: ${ }^{\text {CEAR MODS }}$ |  |  |  |  |  |
| Item Number |  |  |  | Item Title | Applies to Multiple Models |
| Uncategorized |  |  |  |  |  |
|  | CTR02 | CEAR UMTE M |  |  | No |


| Model: | JointThreatEmitter |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
| Modification P-40a Aggregated Items Title: JTE |  |  |  |  |
|  | tem Number |  | Item Title | Applies to Multiple Models |
| Uncategorized |  |  |  |  |
|  | CTR01 | Combat Training | Ranges Joint Threat Emitter | No |


| Model: | BITI |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
| P-3a Individual Modifications |  |  |  |  |
| Modification Number |  | Modification Title |  | Applies to Multiple Models |
|  | 1 | BITI Mod/Recaps |  | No |
|  | 2 | BITI Mod/Recaps BITI Modification 2 |  | No |


| ACD |  |  |  |
| :---: | :---: | :---: | :---: |
| Modification P-40a Aggregated Items Title: AF Defensive Cyberspace Operations |  |  |  |
| Item Number |  | Item Title | Applies to Multiple Models |
| Uncategorized |  |  |  |
| Mod 1 0208088F | ACD WS 02080 | 88F | No |

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| Model: | AFINC-CSCS-WS |  |  |
| :---: | :--- | :--- | :--- | :--- |
| P-3a Individual Modifications |  |  |  |
| Modification Number |  | Modification Title |  |
| 1 | AFINC/CSCS WS 0303089 |  | Applies to Multiple Models |


| Model: | JIE |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
| Modification P-40a Aggregated Items Title: |  |  | Joint Regional Security Stacks (JRSS) |  |
|  | tem Number |  | Item Title | Applies to Multiple Models |
| Uncategorized |  |  |  |  |
|  | JIE-1 | JIE-Mod |  | No |


| GRN-29 |  |  |  |
| :---: | :---: | :---: | :---: |
| Modification P-40a Aggregated Items Title: Air Traffic Control, Approach, and Landing System (ATCALS) |  |  |  |
| Item Number |  | Item Title | Applies to Multiple Models |
| Uncategorized |  |  |  |
| AN/GRN-29 Instrument Landing System | ATCALS AN/GR | N-29 Instrument Landing System (PE 0305114F) | No |


| Model: | TRN-48 |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
| Modification P-40a Aggregated Items Title: |  |  | Air Traffic Control, Approach, and Landing System (ATCALS) |  |
|  | tem Number |  | Item Title | Applies to Multiple Models |
| Uncategorized |  |  |  |  |
|  | ATCALS | Deployable TAC | AN Retrofit/Refurbishment | No |

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| Model: | RC-135 |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
| P-3a Individual Modifications |  |  |  |  |
| Modification Number |  |  | Modification Title | Applies to Multiple Models |
|  | 1 | DARP Modification |  | No |


| 0305208F |  |  |  |
| :---: | :---: | :---: | :---: |
| Modification P-40a Aggregated Items Title: Distributed Common Ground/Surface Systems |  |  |  |
| Item Number |  | Item Title | Applies to Multiple Models |
| Uncategorized |  |  |  |
| DCGS13 | NASIC |  | No |
| DCGS5 | Sensor Integration |  | No |
| DCGS8 | DCGS Reference Imagery Transition (DRT) |  | No |
| P-3a Individual Modifications |  |  |  |
| Modification Number |  | Modification Title | Applies to Multiple Models |
| 2 | Signals Intelligence (SIGINT) |  | No |
| 3 | Multi-Intelligence (Multi-INT) |  | No |
| 4 | Network Infrastructure Transformation |  | No |


| Model: | DCGS |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
| P-3a Individual Modifications |  |  |  |  |
| Modi | fication Number |  | Modification Title | Applies to Multiple Models |
|  | 1 | GEOINT Transformation (GEOINT) |  | No |

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| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Exhibit P-40a |  |  |  |  |  |  |  |  |  |  |
| CRC Phase 1 | 18.783 | 3.405 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | - | - | - |
| AN/TYQ23A OM MOD | 28.323 | 3.941 | - | - | - | - | - | - | - | - |
| Numerical Weather Modeling (NWM) | 18.342 | 9.022 | 1.459 | 2.864 | - | 2.864 | 1.146 | 2.264 | 0.537 | - |
| Mobile Consolidated Command Center Modification | - | - | - | - | - | - | 8.150 | 8.497 | 8.649 | 8.808 |
| Mobile Consolidated Command Center Upgrade Block 01 | 7.845 | 0.440 | - | - | - | - | - | - | - | - |
| Mobile Consolidated Command Center Upgrade Block 02 | - | 9.563 | 0.200 | - | - | - | - | - | - | - |
| Mobile Consolidated Command Center Upgrade Block 03 | - | - | 7.866 | 0.200 | - | 0.200 | - | - | - | - |
| Core C2 Enterprise Network Infrastructure and Mission Equipment | - | - | - | 0.000 | - | 0.000 | 2.152 | 2.190 | 2.230 | 2.271 |
| NORAD Cheyenne Mountain Complex Block 01 | 2.019 | 0.000 | - | - | - | - | - | - | - | - |
| NORAD Cheyenne Mountain Complex Block 02 | - | 0.500 | - | - | - | - | - | - | - | - |
| NORAD Cheyenne Mountain Complex Block 03 | - | 0.000 | 2.079 | 0.205 | - | 0.205 | - | - | - | - |
| NORAD Cheyenne Mountain Complex Block 04 | - | - | - | 1.908 | - | 1.908 | - | - | - | - |
| Base Physical Security Systems | 114.215 | 0.238 | 0.608 | - | - | - | - | - | - | - |
| C-sUAS CENTCOM JUON | 157.144 | 0.000 | - | - | - | - | - | - | - | - |
| C-sUAS STRATCOM JEON | 195.918 | 0.000 | - | - | - | - | - | - | - | - |
| C-sUAS | 112.500 | 11.572 | 98.000 | - | - | - | - | - | - | - |
| C-sUAS EUCOM JUON | 61.260 | - | - | - | - | - | - | - | - | - |
| IBDSS-1 | 84.469 | 43.530 | 1.173 | - | - | - | - | - | - | - |
| IBDSS-3 | - | - | - | - | - | - | - | 46.629 | 52.524 | 60.602 |
| CEAR UMTE Mod | 0.300 | 7.636 | 1.000 | - | - | - | - | - | - | - |

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| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Combat Training Ranges Joint Threat Emitter | 9.031 | 1.707 | 1.735 | 0.000 | - | 0.000 | - | - | - | - |
| ACD WS 0208088F | - | 30.044 | 16.883 | - | - | - | - | - | - | - |
| JIE-Mod | 0.000 | 0.000 | - | 0.000 | - | 0.000 | 9.579 | 9.747 | 9.921 | 7.132 |
| ATCALS AN/GRN-29 Instrument Landing System (PE 0305114F) | 44.594 | 0.000 | - | - | - | - | - | - | - | - |
| Deployable TACAN Retrofit/Refurbishment | 3.800 | - | - | - | - | - | - | - | - | - |
| ATCALS Low Cost Mods (PE 0305114F) | 6.037 | 1.850 | 1.858 | 1.882 | - | 1.882 | 1.910 | 1.945 | 1.981 | 2.017 |
| NAS Gen4 MOD | 11.722 | 9.636 | - | - | - | - | - | - | - | - |
| NAS Low Cost Mods | - | - | 1.854 | 1.892 | - | 1.892 | 1.870 | 1.902 | 1.937 | 1.973 |
| DASR Site Control Data Interface (SCDI) | - | - | 3.840 | - | - | - | - | - | - | 0.637 |
| National Airspace System (NAS) Mod 4 | - | - | - | 1.776 | - | 1.776 | 0.604 | 0.615 | 0.626 | - |
| Tactical Data Networks Enterprise | - | - | 6.948 | - | - | - | 7.940 | - | - | - |
| NASIC | 1.800 | 0.400 | - | 0.000 | - | 0.000 | 0.000 | 0.000 | - | - |
| Sensor Integration | 17.687 | 0.000 | 0.000 | 0.000 | - | 0.000 | 0.000 | 0.000 | 0.000 | - |
| DCGS Reference Imagery Transition (DRT) | 0.146 | 8.078 | - | 0.000 | - | 0.000 | 0.000 | 0.000 | 0.000 | - |
| Exhibit P-3a |  |  |  |  |  |  |  |  |  |  |
| CRC RRSVS RADIO MOD UPGRADE | - | - | - | 13.374 | 0.000 | 13.374 | 18.861 | 20.404 | 8.722 | 215.679 |
| MCCC Upgrade Block 04 | - | 0.000 | 0.000 | 8.001 | 0.000 | 8.001 | 0.200 | 0.000 | 0.000 | 0.000 |
| IBDSS-2 | - | - | 85.903 | 39.601 | 0.000 | 39.601 | 50.711 | 4.966 | 0.000 | - |
| BITI Mod/Recaps | 14.810 | 17.271 | 62.280 | 19.147 | 0.000 | 19.147 | 109.163 | 0.000 | 0.000 | 0.000 |
| BITI Mod/Recaps BITI Modification 2 | - | - | - | - | - | - | - | 51.942 | 111.901 | 113.951 |
| AFINC/CSCS WS 0303089 | - | 42.552 | 109.217 | 84.515 | 0.000 | 84.515 | 69.346 | 74.284 | 71.840 | 43.286 |
| DARP Modification | 75.945 | 26.262 | 51.779 | 27.164 | 0.000 | 27.164 | 27.658 | 28.142 | 28.647 | 29.172 |

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Exhibit P-1M, Procurement Programs - Modification Summary

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Air Force • Budget Estimates FY 2021 • Procurement Exhibit P-1M, Procurement Programs - Modification Summary (Funding for Modifications)

| Modification P-40a Item Title P-3a Modification Title | PYS | FY 2019 | FY 2020 | $\begin{gathered} \text { FY } 2021 \\ \text { Base } \end{gathered}$ | $\begin{aligned} & \text { FY } 2021 \\ & \text { OCO } \end{aligned}$ | $\begin{gathered} \text { FY } 2021 \\ \text { Total } \end{gathered}$ | FY 2022 | FY 2023 | FY 2024 | FY 2025 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| GEOINT Transformation (GEOINT) | 26.517 | 60.539 | 32.898 | 36.662 | 1.900 | 38.562 | 34.358 | 44.585 | 56.600 | 57.619 |
| Signals Intelligence (SIGINT) | 27.544 | 50.654 | 25.259 | 30.768 | 0.000 | 30.768 | 21.702 | 41.715 | 22.268 | 22.635 |
| Multi-Intelligence (Multi-INT) | 36.163 | 31.378 | 12.987 | 18.344 | 16.800 | 35.144 | 49.029 | 23.983 | 13.463 | 13.663 |
| Network Infrastructure Transformation | 133.284 | 208.218 | 22.993 | 13.466 | 0.000 | 13.466 | 23.118 | 20.252 | 40.644 | 41.361 |
| Totals (Total Obligation Authority) |  |  |  |  |  |  |  |  |  |  |
| Total Obligation Authority | 1,210.198 | 578.436 | 548.819 | 301.769 | 18.700 | 320.469 | 437.497 | 384.062 | 432.490 | 620.806 |

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## 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 | - Cockpit Procedures Trainer |
| CPT | - Continuing Resolution Authority |
| CRA | - Countermeasures Test Set |
| CTS | - Current Year |
| CY | - Electronic Counter Counter-Measures |
| ECCM | - Electronic Counter Measures |
| ECM | - Engineering Change Orders |
| ECO | - Economic Order Quantity |
| EOQ | - Engineering Change Proposal |
| ECP | - Economic Price Adjustment |
| EPA | - Electronic Warfare |
| EW | - Electronic Warfare Avionics Integration Support Facility |
| EWAISP | - Forward Looking Infra Red |
| FLIR |  |


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


| 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 | - Taffic Collision Alert and Avoidance Systectronic Warfare System |
| TEWS | - TEWS Intermediate Support System |
| TISS | - Total Obligation Authority |
| TOA | - Working Capital Fund |
| WCF | - War Reserve Material |
| WRM | - Weapon System Trainer |
| WST | - Unmanned Aerial Vehicle |
| UAV | - Extensible Markup Language |
| XML |  |

## BASE / ORGANIZATIONAL ACRONYMNS

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


| AFR | - Air Force Reserve |
| :--- | :--- |
| AFSOC | - AF Special Operations Command |
| AFSPC | - Air Force Space Command |
| AIA | - Air Intelligence Agency |
| ALC | - Air Logistics Center |
| AMC | - Air Mobility Command |
| ANG | - Air National Guard |
| ASC | - Aeronautical Systems Center |
| AETC | - Air Education Training Command |
| AU | - Air University |
| AWS | - Central Inter Serviligence Agency |
| 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 | - Federal Bureau Agency of Investigation |
| FAA | - General Services Administration |
| 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 |  |

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

## CONTRACTED BY ACRONYMNS

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

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## UNCLASSIFIED

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

## 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 |

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Exhibit P-40, Budget Line Item Justification: PB 2021 Air Force
Date: February 2020

## P-1 Line Item Number / Title:

821800 / Passenger Carrying Vehicles Passenger Carrying Vehicles

| 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 <br> Years | FY 2019 | FY 2020 | $\text { FY } 2021$ Base | $\begin{gathered} \text { FY } 2021 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \text { FY } 2021 \\ \text { Total } \end{gathered}$ | FY 2022 | FY 2023 | FY 2024 | FY 2025 | To Complete | Total |
| Procurement Quantity (Units in Each) | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Cost (\$ in Millions) | - | 14.669 | 16.640 | 9.016 | 1.302 | 10.318 | 46.694 | 6.837 | 7.666 | 7.799 | - | 110.623 |
| Less PY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Net Procurement (P-1) (\$ in Millions) | - | 14.669 | 16.640 | 9.016 | 1.302 | 10.318 | 46.694 | 6.837 | 7.666 | 7.799 | - | 110.623 |
| Plus CY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Total Obligation Authority (\$ in Millions) | - | 14.669 | 16.640 | 9.016 | 1.302 | 10.318 | 46.694 | 6.837 | 7.666 | 7.799 | - | 110.623 |

(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:

FY19 funding totals include $\$ 9.680 \mathrm{M}$ appropriated for Overseas Contingency Operations.
FY20 funding totals include $\$ 1.276 \mathrm{M}$ appropriated for Overseas Contingency Operations.
 with their design.
 Special Investigations (OSI) and a portion is procured as chase cars used to support U-2 aircraft operations.
 response, traffic control, patrol duties, and base security operations.

 used for the movement of patients under field conditions, aircraft crash rescue operations, and routine transportation of patients to and from medical facilities.
 Education and Training Command (AETC) training units, Air Force band organizations, protocol offices, and several other missions.

This requirement (or modification) supports performance of a full financial audit as required by title 10 U.S.C. Chapter 9A, Sec 240-D.
 defense missions, domestic emergency responses, and providing military support to civil authorities.

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## UNCLASSIFIED

| Exhibit P-40, Budget Line Item Justification: PB 2021 Air Force |  |  |  |  |  |  |  | Date: February 2020 |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: <br> 3080F: Other Procurement, Air Force / BA 02: Vehicular Equipment / BSA 1: <br> Passenger Carrying Vehicles |  |  |  |  | P-1 Line Item Number / Title: <br> 821800 / Passenger Carrying Vehicles |  |  |  |  |  |
|  |  |  | Program Elements for Code B Items: N/A |  |  |  | Other Related Program Elements: N/A |  |  |  |
| Line Item MDAP/MAIS Code: N/A |  |  |  |  |  |  |  |  |  |  |
| Funding for this exhibit contained in PEs: 0202834F, 0207597F, 0305202F, 0507831F, 0502831F, 0702831F, 0305155F. |  |  |  |  |  |  |  |  |  |  |
| Secondary Distribution |  | FY 2019 | FY 2020 | $\begin{gathered} \hline \text { FY } 2021 \\ \text { Base } \end{gathered}$ | $\begin{gathered} \hline \text { FY } 2021 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \hline \text { FY } 2021 \\ \text { Total } \end{gathered}$ | FY 2022 | FY 2023 | FY 2024 | FY 2025 |
| AF | Quantity | 147 | 198 | 59 | 12 | 71 | - | - | - | - |
|  | Total Obligation Authority | 14.384 | 16.379 | 8.768 | 1.302 | 10.070 | - | - | - | - |
| AFNG | Quantity | 2 | 2 | 4 | 0 | 4 | - | - | - | - |
|  | Total Obligation Authority | 0.179 | 0.203 | 0.188 | 0.000 | 0.188 | - | - | - | - |
| AFR | Quantity | 1 | 2 | 2 | 0 | 2 | - | - | - | - |
|  | Total Obligation Authority | 0.106 | 0.058 | 0.060 | 0.000 | 0.060 | - | - | - | - |
| Total: <br> Secondary Distribution | Quantity | 150 | 202 | 65 | 12 | 77 | - | - | - | - |
|  | Total Obligation Authority | 14.669 | 16.640 | 9.016 | 1.302 | 10.318 | - | - | - | - |

Exhibit P-40, Budget Line Item Justification: PB 2021 Air Force
Appropriation / Budget Activity / Budget Sub Activity:
3080F: Other Procurement, Air Force / BA 02: Vehicular Equipment / BSA 1:
Passenger Carrying Vehicles

## P-1 Line Item Number / Title:

821800 / Passenger Carrying Vehicles Passenger Carrying Vehicles

| 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 2019 | FY 2020 | FY 2021 Base | FY 2021 OCO | FY 2021 Total |
| Exhibit Type | Title* | Subexhibits | $\begin{array}{\|l\|l\|} \hline \text { ID } \\ \text { CD } \end{array}$ | MDAP/ MAIS Code | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) |
| P-40a | Passenger Carrying Vehicles |  |  |  | - 1 - | - 114.669 | - $/ 16.640$ | - 19.016 | - 11.302 | 110.318 |
| P-40 | Total Gross/Weapon System Cost |  |  |  | - 1 - | - /14.669 | - / 16.640 | - 19.016 | - 11.302 | - $/ 10.318$ |


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

## Justification:

FY21 procurement dollars in the amount of $\$ 9.016 \mathrm{M}$ will procure, but not be limited to, 65 vehicles in support of installation and unit mission requirements for Air Force personnel.
FY21 OCO dollars in the amount of $\$ 1.302 \mathrm{M}$ will procure, but not be limited to, 12 vehicles in support of installation and unit mission requirements for Air Force personnel.

 of life projections based on depreciation and service life of the vehicle, cumulative sustainment cost and mission priority.
 European Deterrence Initiative (EDI), Regional Base Cluster Prepositioning Kits (RBCP) for PACOM, and other initiatives as they arise.

As the model applies the life expectancy/sustainment cost/mission priority logic in generating requirements, there can be gaps in individual vehicle type (NSN) requirements from year-to-year.

 fluctuations in contract pricing.

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| Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2021 Air Force |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Date: February 2020 <br> Aggregated Items Title: <br> Passenger Carrying Vehicles |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3080F / 02 / 1 |  |  |  |  |  |  |  | P-1 Line Item Number / Title: <br> 821800 / Passenger Carrying Vehicles |  |  |  |  |  |  |  |  |  |  |  |  |
|  | $\begin{aligned} & \text { ID } \\ & \text { CD } \end{aligned}$ | MDAP/ MAIS Code | Prior Years |  |  | FY 2019 |  |  | FY 2020 |  |  | FY 2021 Base |  |  | FY 2021 OCO |  |  | FY 2021 Total |  |  |
| Item Number / Title [DODIC] |  |  | 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) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | Total Cost (\$ M) | Unit Cost (\$ M) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost (\$ M) | Unit Cost (\$ M) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | Total Cost <br> (\$ M) |
| Uncategorized |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| BUS, 23 PAX SURREY (2310-01-382-3919) | A |  | - | - | - | 0.109 | 7 | $7 \quad 0.761$ | 0.081 | 3 | 0.243 | 0.087 | 3 | 0.261 | - | - | - | 0.087 | 3 | 0.261 |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | - |  |  | $7{ }^{7} 0.761$ |  | 3 | 0.243 |  | 3 | 0.261 |  | - | - |  | 3 | 0.261 |
| PEC: 0305155F THEATER NUCLEAR WEAPON STORAGE \& SECURITY SYSTEM (UNKNOWN REQUIREMENTS) | A |  | - | - | - | - | - | - | - | - | - | - | - | 5.494 | - | - | - | - | - | 5.494 |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | - |  | - | - |  | - | - |  | - | 5.494 |  | - | - |  | - | 5.494 |
| PMA OTHER GOVERNMENT COSTS | A |  | - | - | - | - | - | 0.006 | - | - | 0.016 | - | - | 0.005 | - | - | - | - | - | 0.005 |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | - |  | - | 0.006 |  | - | 0.016 |  | - | 0.005 |  | - | - |  | - | 0.005 |
| SDN MIDSIZE 5PAX CL III (2310-01-074-7736) | A |  | - | - | - | 0.106 | 1 | $1 \quad 0.106$ | - | - | - | - | - | - | - | - | - | - | - | - |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AFR |  |  |  | - | - |  |  | $1{ }^{1}$ |  | - | - |  | - | - |  | - | - |  | - | - |
| SUB COMPACT SEDAN <br> (2310-01-434-2235) | A |  | - | - | - | 0.026 | 19 | $9 \quad 0.499$ | 0.019 | 33 | 0.630 | 0.019 | 10 | 0.191 | - | - | - | 0.019 | 10 | 0.191 |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | - |  | 19 | 9 0.499 |  | 32 | 0.611 |  | 9 | 0.172 |  | - | - |  | 9 | 0.172 |
| AFNG |  |  |  | - | - |  | - | - |  | - | - |  | 1 | 0.019 |  | - | - |  | 1 | 0.019 |
| AFR |  |  |  | - | - |  | - | - |  | 1 | 0.019 |  | - | - |  | - | - |  | - | - |
| HYBRID SEDAN (2310-01-575-5380) | A |  | - | - | - | 0.027 | 15 | $5 \quad 0.412$ | 0.020 | 18 | 0.360 | 0.021 | 7 | 0.144 | - | - | - | 0.021 | 7 | 0.144 |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | - |  | 15 | 5 5 0.412 |  | 18 | 0.360 |  | 7 | 0.144 |  | - | - |  | 7 | 0.144 |
| SDN DOD <br> INVESTIGATION UPFIT (2310-01-670-6144) (replaces LE Sedan 6668) | A |  | - | - | - | 0.037 |  | $5 \quad 0.185$ | 0.039 | 15 | 0.586 | 0.034 | 10 | 0.340 | 0.034 | 1 | 0.034 | 0.034 | 11 | 0.374 |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | - |  |  | 5 0.185 |  | 14 | 0.547 |  | 8 | 0.272 |  | 1 | 0.034 |  | 9 | 0.306 |

## UNCLASSIFIED

| Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2021 Air Force |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Date: February 2020 |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3080F / 02 / 1 |  |  |  |  |  |  |  | P-1 Line Item Number / Title: <br> 821800 / Passenger Carrying Vehicles |  |  |  |  |  |  |  | Aggregated Items Title: Passenger Carrying Vehicles |  |  |  |  |
|  | $\begin{aligned} & \mathrm{ID} \\ & \mathrm{CD} \end{aligned}$ | MDAP/ MAIS Code | Prior Years |  |  | FY 2019 |  |  | FY 2020 |  |  | FY 2021 Base |  |  | FY 2021 OCO |  |  | FY 2021 Total |  |  |
| Item Number / <br> Title [DODIC] |  |  | 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 (\$ M) | Unit Cost (\$ M) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost <br> (\$ M) |
| AFNG |  |  |  | - | - |  | - | - |  | - | - |  | 1 | 0.034 |  | - | - |  | 1 | 0.034 |
| AFR |  |  |  | - | - |  | - | - |  | 1 | 0.039 |  | 1 | 0.034 |  | - | - |  | 1 | 0.034 |
| $\begin{aligned} & \text { HI PERFORMANCE } \\ & \text { SEDAN } \\ & \text { (2310-01-571-3859) } \end{aligned}$ | A |  | - | - | - | 0.036 | 5 | 0.180 | 0.025 | 8 | 0.203 | 0.028 | 7 | 0.193 | - | - | - | 0.028 | 7 | 0.193 |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | - |  | 5 | 0.180 |  | 8 | 0.203 |  | 7 | 0.193 |  | - | - |  | 7 | 0.193 |
| $\begin{aligned} & \hline \text { SEDAN, CMPT } \\ & (2310-01-096-3343) \end{aligned}$ | A |  | - | - | - | 0.024 | 22 | 0.528 | 0.026 | 41 | 1.048 | 0.026 | 12 | 0.307 | 0.026 | 3 | 0.077 | 0.026 | 15 | 0.384 |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | - |  | 22 | 0.528 |  | 41 | 1.048 |  | 10 | 0.255 |  | 3 | 0.077 |  | 13 | 0.332 |
| AFNG |  |  |  | - | - |  | - | - |  | - | - |  | 1 | 0.026 |  | - | - |  | 1 | 0.026 |
| AFR |  |  |  | - | - |  | - | - |  | - | - |  | 1 | 0.026 |  | - | - |  | 1 | 0.026 |
| AMB, 44 PAX CONV US (2310-00-289-9082) | A |  | - | - | - | 0.139 | 2 | 0.278 | 0.136 | 19 | 2.591 | 0.137 | 1 | 0.137 | 0.137 | 1 | 0.137 | 0.137 | 2 | 0.274 |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | - |  | 2 | 0.278 |  | 19 | 2.591 |  | 1 | 0.137 |  | 1 | 0.137 |  | 2 | 0.274 |
| AMB, MOD 4X4 US (2310-01-125-9516) | A |  | - | - | - | 0.194 | 6 | 1.164 | 0.179 | 19 | 3.397 | 0.179 | 3 | 0.536 | 0.179 | 2 | 0.358 | 0.179 | 5 | 0.894 |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | - |  | 6 | 1.164 |  | 19 | 3.397 |  | 3 | 0.536 |  | 2 | 0.358 |  | 5 | 0.894 |
| BUS, 16 PAX US (2310-01-186-2924) | A |  | - | - | - | 0.073 | 6 | 0.438 | 0.077 | 4 | 0.309 | 0.080 | 2 | 0.159 | - | - | - | 0.080 | 2 | 0.159 |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | - |  | 5 | 0.365 |  | 3 | 0.232 |  | 2 | 0.159 |  | - | - |  | 2 | 0.159 |
| AFNG |  |  |  | - | - |  | 1 | 0.073 |  | 1 | 0.077 |  | - | - |  | - | - |  | - | - |
| BUS INTRACITY 4X2 41-51PAX (2310-01-372-1822) | A |  | - | - | - | - | - | - | 0.120 | 5 | 0.600 | 0.121 | 2 | 0.241 | - | - | - | 0.121 | 2 | 0.241 |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | - |  | - | - |  | 5 | 0.600 |  | 2 | 0.241 |  | - | - |  | 2 | 0.241 |
| BUS, 28 PAX US (2310-01-357-8985) | A |  | - | - | - | 0.106 | 25 | 2.638 | 0.109 | 12 | 1.303 | 0.109 | 5 | 0.545 | 0.109 | 3 | 0.326 | 0.109 | 8 | 0.871 |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | - |  | 24 | 2.532 |  | 12 | 1.303 |  | 4 | 0.436 |  | 3 | 0.326 |  | 7 | 0.762 |
| AFNG |  |  |  | - | - |  | 1 | 0.106 |  | - | - |  | 1 | 0.109 |  | - | - |  | 1 | 0.109 |
| BUS, 41 PAX US (2310-00-877-5647) | A |  | - | - | - | 0.506 | 4 | 2.024 | 0.576 | 3 | 1.728 | - | - | - | - | - | - | - | - | - |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | - |  | 4 | 2.024 |  | 3 | 1.728 |  | - | - |  | - | - |  | - | - |

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| Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2021 Air Force |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Date: February 2020 <br> Aggregated Items Title: <br> Passenger Carrying Vehicles |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3080F / 02 / 1 |  |  |  |  |  |  |  | P-1 Line Item Number / Title: <br> 821800 / Passenger Carrying Vehicles |  |  |  |  |  |  |  |  |  |  |  |  |
|  | $\begin{aligned} & \text { ID } \\ & \text { CD } \end{aligned}$ | MDAP/ MAIS Code | Prior Years |  |  | FY 2019 |  |  | FY 2020 |  |  | FY 2021 Base |  |  | FY 2021 OCO |  |  | FY 2021 Total |  |  |
| Item Number / Title [DODIC] |  |  | Unit Cost (\$ M) | $\underset{(\text { (Each) }}{\text { Qty }}$ | Total Cost (\$ 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 (\$ M) | Unit Cost (\$ M) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | Total Cost (\$ M) |
| BUS, 44 PAX US (2310-01-357-8986) | A |  | - | - | - | 0.121 | 22 | 22.2 .667 | 0.126 | 11 | 1.386 | 0.126 | 2 | 0.252 | - | - | - | 0.126 | 2 | 0.252 |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | - |  | 22 | 22 2.667 |  | 10 | 1.260 |  | 2 | 0.252 |  | - | - |  | 2 | 0.252 |
| AFNG |  |  |  | - | - |  | - | - - |  | 1 | 0.126 |  | - | - |  | - | - |  | - | - |
| ARMORED SEDAN (2310-01-135-0997) | A |  | - | - | - | 0.275 |  | $9 \quad 2.475$ | 0.211 | 8 | 1.686 | 0.211 | 1 | 0.211 | - | - | - | 0.211 | 1 | 0.211 |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | - |  |  | 9 9 2.475 |  | 8 | 1.686 |  | 1 | 0.211 |  | - | - |  | 1 | 0.211 |
| AMBULANCE MODULAR 4X2 (2310-01-129-4702) | A |  | - | - | - | 0.154 |  | $2 \quad 0.308$ | 0.185 | 3 | 0.554 | - | - | - | 0.185 | 2 | 0.370 | 0.185 | 2 | 0.370 |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | - |  |  | $2{ }^{2} \quad 0.308$ |  | 3 | 0.554 |  | - | - |  | 2 | 0.370 |  | 2 | 0.370 |
| Subtotal: Uncategorized |  |  | - | - | - | - | - | 14.669 | - | - | 16.640 | - | - | 9.016 | - | - | 1.302 | - | - | 10.318 |
| Total |  |  | - | $\cdot$ | - | - | - | 14.669 | - | - | 16.640 | - | $\cdot$ | 9.016 | - | - | 1.302 | - | - | 10.318 |
| Remarks: <br> Based on AF Mission changes and/or AF Mission priorities, NSNs and/or quantities may change during year of execution. UNIT COSTS FOR FY21 ARE SUBJECT TO CHANGE. |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

Exhibit P-40, Budget Line Item Justification: PB 2021 Air Force
Date: February 2020

## Appropriation / Budget Activity / Budget Sub Activity:

3080F: Other Procurement, Air Force / BA 02: Vehicular Equipment / BSA 2: Cargo and Utility Vehicles

| 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 2019 | FY 2020 | $\text { FY } 2021$ Base | $\begin{gathered} \text { FY } 2021 \\ \text { OCO } \end{gathered}$ | $\text { FY } 2021$ <br> Total | FY 2022 | FY 2023 | FY 2024 | FY 2025 | To Complete | Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Procurement Quantity (Units in Each) | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Cost (\$ in Millions) | - | 45.682 | 34.616 | 15.058 | 3.400 | 18.458 | 6.642 | 3.559 | 4.309 | 4.983 | - | 118.249 |
| Less PY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Net Procurement (P-1) (\$ in Millions) | - | 45.682 | 34.616 | 15.058 | 3.400 | 18.458 | 6.642 | 3.559 | 4.309 | 4.983 | - | 118.249 |
| Plus CY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Total Obligation Authority (\$ in Millions) | - | 45.682 | 34.616 | 15.058 | 3.400 | 18.458 | 6.642 | 3.559 | 4.309 | 4.983 | - | 118.249 |
| (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:

FY19 funding totals include $\$ 9.680 \mathrm{M}$ appropriated for Overseas Contingency Operations.
The Family of Medium Tactical Vehicles (FMTV) contains a broad class of military specification vehicles with the capability to operate in austere and adverse terrain. They include, but are not limited to, Cargo Trucks, Wreckers, Dump Trucks, Tractors, Mobilizers, and Medium Tactical Trailers. They provide a range of capabilities such as line haul, mobility, resupply, maintenance, recovery, construction and civil engineering support. They can be ordered with armor and winch systems. These tactical vehicles are used by Combat Communication Units, Air Support Operation Squadrons (ASOS), Explosive Ordinance Disposal units (EOD), and other direct mission support units throughout the Air Force.

M1297 Ground Mobility Vehicle (GMV) 1.1: The GMV is a fast, lightweight, and highly mobile all-terrain combat vehicle developed to fill a ground mobility capability gap that was identified by SOCOM. The GMV is capable of being transported in the CH-47, CV-22 and C-130 aircraft and is low-velocity airdrop capable. The GMV can carry up to nine personnel. It is capable of being "guns up in under a minute after exiting the aircraft, and can carry a variety of armaments. Its adaptable communications suite provides increased operating range and provides the operator real-time access to critical information. The advanced lightweight chassis and suspension allows the GMV to negotiate severe terrain at high speeds, maintain stability and performance while carrying a maximum payload. The main weapon turret allows for 360 degrees of firepower protection up to a 30 mm cannon. Door mounted arm-swings can be mounted to handle smaller caliber secondary crew-served weapons. This vehicle is primarily used by Air Force Tactical Air Control Party (TACP) and Special Operations forces.

Infantry Squad Vehicle (ISV): The ISV provides mobility for a 9-person squad with associated equipment to move around the close battle area. The ISV is a lightweight, high mobility platform that is transportable by all means including vertical lift and Low Velocity Air Drop (LVAD). The ISV adds a needed capability to Airmen for mobility to support dispersed wide area security, increased speed, extended reach, burden reduction, carrying enablers, battery charging, mission command enhancement, and offers the commander new maneuver options. This vehicle is primarily used by Special Operations Forces, Tactical Air Control Party, and Security Forces.

This requirement (or modification) supports performance of a full financial audit as required by title 10 U.S.C. Chapter 9A, Sec 240-D.
In accordance with Section 1815 of the FY 2008 National Defense Authorization Act (P.L. 110-181), this item is necessary for use by the active and reserve components of the Armed Forces for homeland defense missions, domestic emergency responses, and providing military support to civil authorities.

| Exhibit P-40, Budget Line Item Justification: PB 2021 Air Force |  |  |  |  |  |  |  | Date: February 2020 |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: <br> 3080F: Other Procurement, Air Force / BA 02: Vehicular Equipment / BSA 2: Cargo and Utility Vehicles |  |  |  |  | P-1 Line Item Number / Title: 822230 / Medium Tactical Vehicle |  |  |  |  |  |
| 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 |  |  |  |  |  |  |  |  |  |  |
| Funding for the exhibit contained in PEs 0202834F, 0507831F, 0502831F, 0702831F. |  |  |  |  |  |  |  |  |  |  |
| Secondary Distribution |  | FY 2019 | FY 2020 | FY 2021 Base | $\begin{gathered} \hline \text { FY } 2021 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \hline \text { FY } 2021 \\ \text { Total } \end{gathered}$ | FY 2022 | FY 2023 | FY 2024 | FY 2025 |
| AF | Quantity | 262 | 192 | 85 | 13 | 98 | - | - | - | - |
|  | Total Obligation Authority | 43.498 | 32.619 | 12.586 | 3.400 | 15.986 | - | - | - | - |
| AFNG | Quantity | 18 | 9 | 10 | 0 | 10 | - | - | - | - |
|  | Total Obligation Authority | 1.147 | 1.228 | 1.803 | 0.000 | 1.803 | - | - | - | - |
| AFR | Quantity | 7 | 5 | 9 | 0 | 9 | - | - | - | - |
|  | Total Obligation Authority | 1.037 | 0.769 | 0.669 | 0.000 | 0.669 | - | - | - | - |
| Total: <br> Secondary Distribution | Quantity | 287 | 206 | 104 | 13 | 117 | - | - | - | - |
|  | Total Obligation Authority | 45.682 | 34.616 | 15.058 | 3.400 | 18.458 | - | - | - | - |

## Appropriation / Budget Activity / Budget Sub Activity:

3080F: Other Procurement, Air Force / BA 02: Vehicular Equipment / BSA 2: Cargo and Utility Vehicles


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

## Justification:

FY21 procurement dollars in the amount of $\$ 15.058 \mathrm{M}$ will procure, but not be limited to, 104 vehicles in support of installation and unit mission requirements for Air Force personnel.
FY21 OCO dollars in the amount of $\$ 3.4 \mathrm{M}$ will procure, but not be limited to, 13 vehicles in support of installation and unit mission requirements for Air Force personnel

 of life projections based on depreciation and service life of the vehicle, cumulative sustainment cost and mission priority.
 European Deterrence Initiative (EDI), Regional Base Cluster Prepositioning Kits (RBCP) for PACOM, and other initiatives as they arise.

As the model applies the life expectancy/sustainment cost/mission priority logic in generating requirements, there can be gaps in individual vehicle type (NSN) requirements from year-to-year.

 fluctuations in contract pricing.

## UNCLASSIFIED

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Date: February 2020 <br> Aggregated Items Title: Medium Tactical Vehicle |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3080F / 02 / 2 |  |  |  |  |  |  |  | P-1 Line Item Number / Title: 822230 / Medium Tactical Vehicle |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  | ior Yea |  | FY 2019 |  |  | FY 2020 |  |  | FY 2021 Base |  |  | FY 2021 OCO |  |  | FY 2021 Total |  |  |
| Item Number / Title [DODIC] | $\begin{array}{\|c\|} \text { ID } \\ \text { CD } \end{array}$ | $\begin{array}{\|l\|l\|} \hline \text { MDAPI } \\ \text { MAIS } \\ \text { Code } \end{array}$ | Unit Cost (\$ M) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost (\$ M) | Unit Cost (\$ M) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \\ \hline \end{gathered}$ | 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) | 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) |
| Uncategorized |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| TRK, CGO, MTV, M1083A1P2 W/ WINCH (2320-01-549-8565) | A |  | - | - | - | 0.283 | 50 | 14.145 | 0.256 | 33 | 8.448 | 0.262 | 10 | 2.621 | 0.262 | 13 | 3.400 | 0.262 | 23 | 6.021 |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | - |  | 50 | 14.145 |  | 33 | 8.448 |  | 4 | 1.048 |  | 13 | 3.400 |  | 17 | 4.448 |
| AFNG |  |  |  | - | - |  | - | - |  | - | - |  | 6 | 1.573 |  | - | - |  | 6 | 1.573 |
| DUMP TRK, M1157A1P2 10TON, W/WINCH (2320-01-552-7782) | A |  | - | - | - | - | - | 0.581 | - | - | 0.512 | 0.358 | 4 | 1.431 | - | - | - | 0.358 | 4 | 1.431 |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | - |  | - | 0.581 |  | - | 0.512 |  | 4 | 1.431 |  | - | - |  | 4 | 1.431 |
| M1088 5T SEMI TRAC W/WINCH (2320-01-552-7753 | A |  | - | - | - | 0.180 | 2 | 0.360 | - | - | - | 0.269 | 7 | 1.886 | - | - | - | 0.269 | 7 | 1.886 |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | - |  | - | 0.000 |  | - | - |  | 7 | 1.886 |  | - | - |  | 7 | 1.886 |
| AFNG |  |  |  | - | - |  | 2 | 0.360 |  | - | - |  | - | - |  | - | - |  | - | - |
| AFR |  |  |  | - | - |  | - | 0.000 |  | - | - |  | - | - |  | - | $\cdot$ |  | - | - |
| TRAILER, 5 TON M1095 (2330-01-449-1776) | A |  | - |  | . | 0.050 | 2 | 0.100 | 0.048 | 9 | 0.432 | 0.049 | 14 | 0.680 | - | . | . | 0.049 | 14 | 0.680 |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | - |  | - | 0.000 |  | 8 | 0.384 |  | 13 | 0.631 |  | - | - |  | 13 | 0.631 |
| AFNG |  |  |  | - | - |  | 2 | 0.100 |  | 1 | 0.048 |  | 1 | 0.049 |  | - | - |  | 1 | 0.049 |
| AFR |  |  |  | - | - |  | - | 0.000 |  | - | - |  | - | - |  | - | - |  | - | - |
| PMA OTHER GOVERNMENT COST | A |  | - | . | - | - | . | 0.013 | - | . | 0.010 | - | - | 0.017 | - | . | . | - | . | 0.017 |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | - |  | - | 0.013 |  | - | 0.010 |  | - | 0.017 |  | - | - |  | - | 0.017 |
| PMA CONTRACTOR SUPPORT | A |  | - | - | - | - | - | 0.000 | - | - | 0.708 | - | - | - | - | - | - | - | - | - |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | - |  | - | 0.000 |  | - | 0.708 |  | - | - |  | - | - |  | - | - |
| TRK, CGO, LMTV, M1078A1P2, W/ OUT WINCH (2320-01-549-8577) | A |  | - | - | - | 0.180 | 70 | 12.621 | - | . | - | - | . | . | - | . | - | - | . | - |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2021 Air Force

| Appropriation / Budget Activity / Budget Sub Activity: 3080F / 02 / 2 | P-1 Line Item Number / Title: 822230 / Medium Tactical Vehicle |
| :---: | :---: |


| Item Number / Title [DODIC] | $\begin{aligned} & \text { ID } \\ & \text { CD } \end{aligned}$ | MDAP <br> MAIS <br> Code | Prior Years |  |  | FY 2019 |  |  | FY |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | 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) | Q |
| AF |  |  |  | - | - |  | 70 | 12.621 |  |  |
| AFNG |  |  |  | - | - |  | - | 0.000 |  |  |
| AFR |  |  |  | - | - |  | - | 0.000 |  |  |
| TRUCK, DUMP (2320-01-552-7787) | A |  | - | - | - | 0.462 | 4 | 1.849 | 0.299 |  |

Secondary Distribution

Date: February 2020

## Aggregated Items Title:

Medium Tactical Vehicle

| FY 2021 OCO |  | FY 2021 Total |  |  |  |
| :---: | ---: | ---: | ---: | ---: | ---: |
|  | Qty <br> (Each) | Total <br> Cost <br> $(\$ M)$ | Unit Cost <br> $(\$ M)$ | Qty <br> $($ Each $)$ | Total <br> Cost <br> $(\$ M)$ |
|  | - | - |  | - | - |
| - | - |  | - | - |  |
| - | - |  | - | - |  |
| - | - | 0.300 | 2 | 0.599 |  |





| 7 |  | - | - |  |
| :--- | :--- | :--- | :--- | :--- |
|  |  | - | - |  |
|  |  | - | - |  |
|  | - | - | - |  |


|  | 3 | 0.647 |
| ---: | ---: | :---: |
|  | - | - |
|  | 2 | 0.431 |
|  | 22 | 0.662 |


|  | 18 | 0.542 |
| :---: | :---: | :---: |
|  | - | - |
|  | 4 | 0.120 |
| 0.056 | 8 | 0.447 |


| - | - | 4 | 0.284 | 29 | 1.624 |  | 7 | 0.391 |  |
| :---: | :---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: |
| - | - | - | 0.000 | - | - |  | 1 | 0.056 |  |
| - | - | - | 0.000 | 1 | 0.056 |  | - | - |  |


| 0.300 |  | 18 | 0.542 |  | - | - |  | 18 |  |
| ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: |
| 0.030 |  | - | - |  | - | - |  | - | 4 |
| - |  | 4 | 0.120 |  | - | - |  | 4 |  |
| 1.680 | 0.056 | 8 | 0.447 | - | - | - | 0.056 | 8 |  | 0.447


| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :--- | :--- | :--- | :--- | :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| AF |  |  |  | - |  |  |  |  |  |  |  |  |
| AFNG |  |  |  | - |  |  |  |  |  |  |  |  |
| AFR |  |  |  | - |  |  |  |  |  |  |  |  |


| - | - |  | 71 | 2.926 |  |  |
| :--- | ---: | ---: | ---: | ---: | :--- | :--- |
| - | - |  | 1 | 0.041 |  |  |
| - | - |  | 3 | 0.124 |  |  |
| - | - | 0.071 | 4 | 0.284 | 0.056 |  |


| 10 | 0.300 |  | 18 | 0.542 |
| ---: | ---: | ---: | ---: | ---: |
| 1 | 0.030 |  |  |  |




| - |  | 7 | 0.391 |
| :---: | ---: | ---: | ---: |
| - | 1 | 0.056 |  |
| - | - | - |  |


| Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2021 Air Force |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Date: February 2020 <br> Aggregated Items Title: Medium Tactical Vehicle |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3080F / 02 / 2 |  |  |  |  |  |  |  | P-1 Line Item Number / Title: <br> 822230 / Medium Tactical Vehicle |  |  |  |  |  |  |  |  |  |  |  |  |
| Item Number / Title [DODIC] | $\begin{aligned} & \text { ID } \\ & \text { CD } \end{aligned}$ | $\begin{gathered} \text { MDAPI } \\ \text { MAIS } \\ \text { Code } \\ \hline \end{gathered}$ | Prior Years |  |  | FY 2019 |  |  | FY 2020 |  |  | FY 2021 Base |  |  | FY 2021 OCO |  |  | FY 2021 Total |  |  |
|  |  |  | 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) |
| TLR, 5T CGO, M1061A1 (2330-01-452-3157) | A |  | - | - | - | - | - | 0.000 | 0.013 | 1 | 0.013 | - | - | - | - | - | - | - | - | - |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | - |  | - | 0.000 |  | - | - |  | - | - |  | - | - |  | - | - |
| AFNG |  |  |  | - | - |  | - | 0.000 |  | 1 | 0.013 |  | - | - |  | - | - |  | - | - |
| AFR |  |  |  | - | - |  | - | 0.000 |  | - | - |  | - | - |  | - | - |  | - | - |
| TLR, 2.5T CHS, M200 (2330-01-449-1775) | A |  | - | - | - | 0.010 | 17 | 0.176 | 0.039 | 14 | 0.548 | 0.039 | 13 | 0.510 | - | - | - | 0.039 | 13 | 0.510 |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | - |  | 6 | 0.062 |  | 10 | 0.392 |  | 9 | 0.353 |  | - | - |  | 9 | 0.353 |
| AFNG |  |  |  | - | - |  | 10 | 0.104 |  | 2 | 0.078 |  | 1 | 0.039 |  | - | - |  | 1 | 0.039 |
| AFR |  |  |  | - | - |  | 1 | 0.010 |  | 2 | 0.078 |  | 3 | 0.118 |  | - | - |  | 3 | 0.118 |
| $\begin{aligned} & \text { 7.5TON DOLLY SET } \\ & \text { (2330-01-661-5190) } \end{aligned}$ | A |  | - | - | - | 0.096 | 43 | 4.148 | 0.086 | 7 | 0.602 | 0.086 | 5 | 0.431 | - | - | - | 0.086 | 5 | 0.431 |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | - |  | 43 | 4.148 |  | 5 | 0.430 |  | 4 | 0.345 |  | - | - |  | 4 | 0.345 |
| AFNG |  |  |  | - | - |  | - | 0.000 |  | 1 | 0.086 |  | 1 | 0.086 |  | - | - |  | 1 | 0.086 |
| AFR |  |  |  | - | - |  | - | 0.000 |  | 1 | 0.086 |  | - | - |  | - | - |  | - | - |
| M871, TRLR ISO CONTAINER (2330-01-226-0701) | A |  | - | - | - | - | . | 0.000 | 0.052 | 36 | 1.872 | 0.051 | 6 | 0.308 | - | - | - | 0.051 | 6 | 0.308 |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | - |  | - | 0.000 |  | 36 | 1.872 |  | 6 | 0.308 |  | - | - |  | 6 | 0.308 |
| AFNG |  |  |  | - | - |  | - | 0.000 |  | - | - |  | - | - |  | - | - |  | - | - |
| AFR |  |  |  | - | - |  | - | 0.000 |  | - | - |  | - | - |  | - | - |  | - | - |
| Subtotal: Uncategorized |  |  | - | $\cdot$ | $\cdot$ | - | - | 45.682 | - | - | 34.616 | - | - | 15.058 | - | - | 3.400 | - | - | 18.458 |
| Total |  |  | - | - | - | - | - | 45.682 | - | - | 34.616 | - | - | 15.058 | - | - | 3.400 | - | - | 18.458 |

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

## Remarks:

Based on AF Mission changes and/or AF Mission priorities, NSNs and/or quantities may change during year of execution.
Unit costs and quantities for FY21 are subject to change.
PMA OTHER CONTRACTOR SERVICES: This funding includes provisions for government contract oversight, technical expertise, and program office support associated with the 12 Ton Dollyset.
PMA OTHER GOVERNMENT COSTS: This line supports the operation of the program office in its management and oversight role via travel, procurement of supplies and studies

Exhibit P-40, Budget Line Item Justification: PB 2021 Air Force
Date: February 2020

## Appropriation / Budget Activity / Budget Sub Activity:

3080F: Other Procurement, Air Force / BA 02: Vehicular Equipment / BSA 2: Cargo and Utility Vehicles

| ID Code (A=Service Ready, B=Not Service Ready) |  |  | Program Ele | ents for Cod | B Items: N/A |  |  | Other Relat | Program E | ents: N/A |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Line Item MDAP/MAIS Code: N/A |  |  |  |  |  |  |  |  |  |  |  |  |
| Resource Summary | Prior <br> Years | FY 2019 | FY 2020 | $\text { FY } 2021$ <br> Base | $\begin{gathered} \text { FY } 2021 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \text { FY } 2021 \\ \text { Total } \end{gathered}$ | FY 2022 | FY 2023 | FY 2024 | FY 2025 | To Complete | Total |
| Procurement Quantity (Units in Each) | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Cost (\$ in Millions) | - | 1.700 | 2.694 | 1.059 | 0.000 | 1.059 | 1.078 | 1.097 | 1.117 | 1.137 | - | 9.882 |
| Less PY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Net Procurement (P-1) (\$ in Millions) | - | 1.700 | 2.694 | 1.059 | 0.000 | 1.059 | 1.078 | 1.097 | 1.117 | 1.137 | - | 9.882 |
| Plus CY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Total Obligation Authority (\$ in Millions) | - | 1.700 | 2.694 | 1.059 | 0.000 | 1.059 | 1.078 | 1.097 | 1.117 | 1.137 | - | 9.882 |
| (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:

 federal, state or local government authorities and non-governmental organizations (NGOs) to perform emergency or non-emergency public purpose missions and activities.
 supremacy; and to encourage and develop, by example, the voluntary contribution of private citizens to the public welfare.
 national emergencies and disasters.

CAP's procurement processes/standards are described in Department of Defense Grant \& Agreement Regulations.

## Program element associated with this P-1 Line is: $0901223 F$

## Justification:


 execution year funds from Congress

 9442.

AF central procurement processes are not applicable.

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Code: N/A

Exhibit P-40, Budget Line Item Justification: PB 2021 Air Force
Date: February 2020

## P-1 Line Item Number / Title:

822990 / Cargo and Utility Vehicles and Utility Vehicles


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

| Resource Summary | Prior <br> Years | FY 2019 | FY 2020 | $\text { FY } 2021$ Base | $\begin{gathered} \text { FY } 2021 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \text { FY } 2021 \\ \text { Total } \end{gathered}$ | FY 2022 | FY 2023 | FY 2024 | FY 2025 | To Complete | Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Procurement Quantity (Units in Each) | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Cost (\$ in Millions) | - | 63.636 | 32.835 | 38.920 | 12.475 | 51.395 | 59.175 | 72.457 | 40.757 | 40.527 | - | 360.782 |
| Less PY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Net Procurement (P-1) (\$ in Millions) | - | 63.636 | 32.835 | 38.920 | 12.475 | 51.395 | 59.175 | 72.457 | 40.757 | 40.527 | - | 360.782 |
| Plus CY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Total Obligation Authority (\$ in Millions) | - | 63.636 | 32.835 | 38.920 | 12.475 | 51.395 | 59.175 | 72.457 | 40.757 | 40.527 | - | 360.782 |
| (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:

FY19 funding totals include $\$ 19.680 \mathrm{M}$ appropriated for Overseas Contingency Operations.
FY20 funding totals include $\$ 9.702 \mathrm{M}$ appropriated for Overseas Contingency Operations.



 these replacement vehicles, the Air Force will not have the ability to support broad spectrum Air Force operations.

This requirement (or modification) supports performance of a full financial audit as required by title 10 U.S.C. Chapter 9A, Sec 240-D.
 defense missions, domestic emergency responses, and providing military support to civil authorities.

Funding for this exhibit contained in PEs: 0207142F, 0202834F, 0207597F, 0208028F, 0401221F, 0507831F, 0502831F, 0702831F

| Secondary Distribution |  | FY 2019 | FY 2020 | FY 2021 <br> Base | $\begin{aligned} & \text { FY } 2021 \\ & \text { OCO } \end{aligned}$ | $\begin{gathered} \text { FY } 2021 \\ \text { Total } \end{gathered}$ | FY 2022 | FY 2023 | FY 2024 | FY 2025 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| AF | Quantity | 1,568 | 621 | 780 | 262 | 1,042 | - | - | - | - |
|  | Total Obligation Authority | 60.888 | 23.436 | 29.326 | 12.475 | 41.801 | - | - | - | - |
| AFNG | Quantity | 8 | 239 | 146 | 0 | 146 | - | - | - | - |
|  | Total Obligation Authority | 0.240 | 6.835 | 6.936 | 0.000 | 6.936 | - | - | - | - |

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## UNCLASSIFIED



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

## Appropriation / Budget Activity / Budget Sub Activity:

3080F: Other Procurement, Air Force / BA 02: Vehicular Equipment / BSA 2: Cargo and Utility Vehicles

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

## Justification:

FY21 procurement dollars in the amount of $\$ 38.920 \mathrm{M}$ will procure, but not be limited to, 987 vehicles in support of installation and unit mission requirements for Air Force personnel.
FY21 OCO dollars in the amount of $\$ 12.475 \mathrm{M}$ will procure, but not be limited to, 262 vehicles in support of installation and unit mission requirements for Air Force personnel.

 of life projections based on depreciation and service life of the vehicle, cumulative sustainment cost and mission priority.
 European Deterrence Initiative (EDI), Regional Base Cluster Prepositioning Kits (RBCP) for PACOM, and other initiatives as they arise.

As the model applies the life expectancy/sustainment cost/mission priority logic in generating requirements, there can be gaps in individual vehicle type (NSN) requirements from year-to-year.

 fluctuations in contract pricing.

## UNCLASSIFIED

| Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2021 Air Force |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Date: February 2020 <br> Aggregated Items Title: Cargo and Utility Vehicles |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3080F / 02 / 2 |  |  |  |  |  |  |  | P-1 Line Item Number / Title: 822990 / Cargo and Utility Vehicles |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  | $\begin{gathered} \text { MDAP/ } \\ \text { MAIS } \\ \text { Code } \end{gathered}$ | Prior Years |  |  | FY 2019 |  |  | FY 2020 |  |  | FY 2021 Base |  |  | FY 2021 OCO |  |  | FY 2021 Total |  |  |
| Item Number / Title [DODIC] | $\begin{aligned} & \text { ID } \\ & \text { CD } \end{aligned}$ |  | Unit Cost (\$ M) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost (\$ M) | Unit Cost (\$ M) | $\underset{\text { (Each) }}{\text { Qty }}$ | Total Cost <br> (\$ M) | Unit Cost (\$ M) | Qty (Each) | 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) |
| Uncategorized (1) |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| TRK 1/2 Crew Cab $4 \times 4$ PU (2320-01-484-6745) | A |  | - | - | - | 0.028 | 47 | $77 \quad 1.316$ | 0.023 | 23 | 0.533 | 0.023 | 23 | 0.529 | - | - | - | 0.023 | 23 | 0.529 |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | - |  | 47 | 771.316 |  | 23 | 0.533 |  | 21 | 0.483 |  | - | - |  | 21 | 0.483 |
| AFNG |  |  |  | - | - |  | - | - |  | - | - |  | 2 | 0.046 |  | - | - |  | 2 | 0.046 |
| TRK TRAC 4X2 24M-44500G $(2320-01-663-0742)$ | A |  | - | - | - | - | - | - | - | - | - | 0.100 | 2 | 0.199 | - | - | - | 0.100 | 2 | 0.199 |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | - |  | - | - |  | - | - |  | 2 | 0.199 |  | - | - |  | 2 | 0.199 |
| SUV, PATROL MWD UP-FIT (2320-01-671-3641) | A |  | - | - | - | - | - | - | - | - | - | 0.045 | 10 | 0.450 | - | - | - | 0.045 | 10 | 0.450 |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | - |  | - | - |  | - | - |  | 10 | 0.450 |  | - | - |  | 10 | 0.450 |
| PAYLOAD TRANSPORT TRUCK (2320-01-529-5420) | A |  | - | - | - | - | - | - | - | . | . | 0.165 | 2 | 0.330 | - | - | . | 0.165 | 2 | 0.330 |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | - |  | - | - |  | - | - |  | 2 | 0.330 |  | - | - |  | 2 | 0.330 |
| TRL VAN 48 FT HARD SIDE (2330-01-627-5975) | A |  | - | - | - | - | . | - | - | . | - | 0.052 | 2 | 0.104 | - | - | . | 0.052 | 2 | 0.104 |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | - |  | - | - |  | - | - |  | 2 | 0.104 |  | - | - |  | 2 | 0.104 |
| SUV DOD PATROL UP-FIT (2320-01-670-6148) | A |  | - | - | - | - | - | - | - | . | - | 0.042 | 7 | 0.297 | - | - | - | 0.042 | 7 | 0.297 |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | - |  | - | - |  | - | - |  | 7 | 0.297 |  | - | - |  | 7 | 0.297 |
| TRK MLTSP 4X2 12500-16999GVW (2320-01-090-7900) | A |  | - | - | - | - | - | - | - | - | - | 0.080 | 12 | 0.959 | - | - | - | 0.080 | 12 | 0.959 |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | - |  | - | - |  | - | - |  | 12 | 0.959 |  | - | - |  | 12 | 0.959 |
| TRK STK 4X2 2.5 TON (2320-01-064-8540) | A |  | - | - | - | - | - | - | - | - | - | 0.066 | 2 | 0.131 | - | - | - | 0.066 | 2 | 0.131 |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | - |  | - | - |  | - | - |  | 2 | 0.131 |  | - | - |  | 2 | 0.131 |

## UNCLASSIFIED

| Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2021 Air Force |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Date: February 2020 |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3080F / 02 / 2 |  |  |  |  |  |  |  | P-1 Line Item Number / Title: <br> 822990 / Cargo and Utility Vehicles |  |  |  |  |  |  |  | Aggregated Items Title: Cargo and Utility Vehicles |  |  |  |  |
|  | $\begin{aligned} & \text { ID } \\ & \text { CD } \end{aligned}$ | MDAP/ MAIS Code | Prior Years |  |  | FY 2019 |  |  | FY 2020 |  |  | FY 2021 Base |  |  | FY 2021 OCO |  |  | FY 2021 Total |  |  |
| Item Number / Title [DODIC] |  |  | 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 Cost <br> (\$ M) | Unit Cost (\$ M) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost $\qquad$ | $\begin{gathered} \text { Unit Cost } \\ (\$ M) \\ \hline \end{gathered}$ | $\begin{gathered} \text { Qty } \\ \text { (Each) } \\ \hline \end{gathered}$ | Total Cost <br> (\$ M) |
| TRK PU 4DR 4X4 F450 <br> (2320-01-501-6635) | A |  | - | - | - | - | - | - | 0.051 | 2 | 0.101 | 0.053 | 19 | 1.006 | - | - | - | 0.053 | 19 | 1.006 |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | - |  | - | - |  | 2 | 0.101 |  | 8 | 0.424 |  | - | - |  | 8 | 0.424 |
| AFNG |  |  |  | - | - |  | - | - |  | - | - |  | 6 | 0.317 |  | - | - |  | 6 | 0.317 |
| AFR |  |  |  | - | - |  | - | - |  | - | - |  | 5 | 0.265 |  | - | - |  | 5 | 0.265 |
| ARMORED 4X4 SUV <br> (2320-01-537-7753) | A |  | - | - | - | 0.187 | 12 | 2.239 | - | - | - | 0.180 | 5 | 0.900 | - | - | - | 0.180 | 5 | 0.900 |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | - |  | 12 | 2.239 |  | - | - |  | 5 | 0.900 |  | - | - |  | 5 | 0.900 |
| TRK S\&P 1000GVW 4X4 (2320-01-302-2698) | A |  | - | - | - | - | - | - | 0.036 | 12 | 0.431 | 0.039 | 3 | 0.117 | - | - | - | 0.039 | 3 | 0.117 |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | - |  | - | - |  | 12 | 0.431 |  | 3 | 0.117 |  | - | - |  | 3 | 0.117 |
| $\begin{aligned} & \hline \text { 4X2 4DR SUV } \\ & \text { (2320-01-484-8859) } \end{aligned}$ | A |  | - | - | - | - | - | - | 0.021 | 1 | 0.021 | 0.019 | 13 | 0.252 | - | - | - | 0.019 | 13 | 0.252 |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | - |  | - | - |  | 1 | 0.021 |  | 5 | 0.097 |  | - | - |  | 5 | 0.097 |
| AFNG |  |  |  | - | - |  | - | - |  | - | - |  | 5 | 0.097 |  | - | - |  | 5 | 0.097 |
| AFR |  |  |  | - | - |  | - | - |  | - | - |  | 3 | 0.058 |  | - | - |  | 3 | 0.058 |
| $\begin{aligned} & \text { TRK CGO 4X4 } \\ & \text { (2320-01-674-9408) } \end{aligned}$ | A |  | - | - | - | - | - | - | 0.099 | 1 | 0.099 | 0.093 | 6 | 0.557 | - | - | - | 0.093 | 6 | 0.557 |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | - |  | - | - |  | 1 | 0.099 |  | 1 | 0.093 |  | - | - |  | 1 | 0.093 |
| AFNG |  |  |  | - | - |  | - | - |  | - | - |  | 5 | 0.464 |  | - | - |  | 5 | 0.464 |
| TRK UTILITY 4X4 4DOOR (2320-01-338-6502) | A |  | - | - | - | 0.029 | 16 | 0.471 | 0.045 | 4 | 0.180 | 0.045 | 3 | 0.135 | - | - | - | 0.045 | 3 | 0.135 |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | - |  | 16 | 0.471 |  | 4 | 0.180 |  | 3 | 0.135 |  | - | - |  | 3 | 0.135 |
| TRK CGO CMPT 4X4 3500G (2320-01-087-8223) | A |  | - | - | - | 0.029 | 18 | 0.517 | 0.030 | 11 | 0.330 | 0.030 | 7 | 0.210 | - | - | - | 0.030 | 7 | 0.210 |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | - |  | 18 | 0.517 |  | 11 | 0.330 |  | 7 | 0.210 |  | - | - |  | 7 | 0.210 |
| PMA Other Government Costs | A |  | - | - | - | - | - | 0.011 | - | - | 0.013 | - | - | 0.016 | - | - | - | - | - | 0.016 |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | - |  | - | 0.011 |  | - | 0.013 |  | - | 0.016 |  | - | - |  | - | 0.016 |

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| Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2021 Air Force |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Date: February 2020 |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3080F / 02 / 2 |  |  |  |  |  |  |  | P-1 Line Item Number / Title: <br> 822990 / Cargo and Utility Vehicles |  |  |  |  |  |  |  | Aggregated Items Title: Cargo and Utility Vehicles |  |  |  |  |
|  | $\begin{aligned} & \text { ID } \\ & \text { CD } \end{aligned}$ | MDAP/ MAIS Code | Prior Years |  |  | FY 2019 |  |  | FY 2020 |  |  | FY 2021 Base |  |  | FY 2021 OCO |  |  | FY 2021 Total |  |  |
| Item Number / <br> Title [DODIC] |  |  | 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 (\$ 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) |
| TRK TRAC 55 GVW 6X4 RH (2320-01-058-5724) | A |  | - | - | - | 0.143 | 13 | 1.853 | 0.105 | 14 | 1.470 | 0.127 | 17 | 2.162 | 0.127 | 1 | 0.127 | 0.127 | 18 | 2.289 |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | - |  | 13 | 1.853 |  | 14 | 1.470 |  | 12 | 1.526 |  | 1 | 0.127 |  | 13 | 1.653 |
| AFNG |  |  |  | - | - |  | - | - |  | - | - |  | 3 | 0.382 |  | - | - |  | 3 | 0.382 |
| AFR |  |  |  | - | - |  | - | - |  | - | - |  | 2 | 0.254 |  | - | - |  | 2 | 0.254 |
| TRAILER, DROPDECK, 25T (2330-01-657-3335) | A |  | - | - | - | 0.033 | 8 | 0.262 | 0.034 | 5 | 0.169 | 0.037 | 2 | 0.073 | - | - | - | 0.037 | 2 | 0.073 |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | - |  | 8 | 0.262 |  | 4 | 0.135 |  | 2 | 0.073 |  | - | - |  | 2 | 0.073 |
| AFNG |  |  |  | - | - |  | - | - |  | 1 | 0.034 |  | - | - |  | - | - |  | - | - |
| $\begin{aligned} & \text { 1T S\&P 4X2 } \\ & (2320-00-851-8481) \end{aligned}$ | A |  | - | - | - | 0.027 | 54 | 1.465 | 0.027 | 56 | 1.520 | 0.028 | 29 | 0.816 | - | - | - | 0.028 | 29 | 0.816 |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | - |  | 51 | 1.384 |  | 37 | 1.005 |  | 23 | 0.647 |  | - | - |  | 23 | 0.647 |
| AFNG |  |  |  | - | - |  | - | - |  | 16 | 0.434 |  | 6 | 0.169 |  | - | - |  | 6 | 0.169 |
| AFR |  |  |  | - | - |  | 3 | 0.081 |  | 3 | 0.081 |  | - | - |  | - | - |  | - | - |
| TRK 4X4 DOD MWD UP-FIT (2320-01-670-6147) | A |  | - | - | - | - | - | - | 0.052 | 4 | 0.207 | 0.052 | 8 | 0.414 | - | - | - | 0.052 | 8 | 0.414 |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | - |  | - | - |  | 4 | 0.207 |  | 8 | 0.414 |  | - | - |  | 8 | 0.414 |
| TRAILER TILT DECK 6TON (2330-01-657-2183) | A |  | - | - | - | 0.016 | 9 | 0.144 | 0.022 | 1 | 0.022 | 0.011 | 11 | 0.121 | - | - | - | 0.011 | 11 | 0.121 |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | - |  | 9 | 0.144 |  | 1 | 0.022 |  | 5 | 0.055 |  | - | - |  | 5 | 0.055 |
| AFNG |  |  |  | - | - |  | - | - |  | - | - |  | 6 | 0.066 |  | - | - |  | 6 | 0.066 |
| TRAILER VAN CARGO 12TON (2330-01-657-3336) | A |  | - | - | - | 0.039 | 32 | 1.235 | 0.043 | 5 | 0.215 | 0.042 | 5 | 0.211 | - | - | - | 0.042 | 5 | 0.211 |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | - |  | 31 | 1.196 |  | 5 | 0.215 |  | 5 | 0.211 |  | - | - |  | 5 | 0.211 |
| AFR |  |  |  | - | - |  | 1 | 0.039 |  | - | - |  | - | - |  | - | - |  | - | - |
| TRAILER 20T 40FT W/COVER KIT (2330-01-094-0007) | A |  | - | - | - | 0.053 | 12 | 0.633 | 0.053 | 1 | 0.053 | 0.053 | 3 | 0.160 | - | - | - | 0.053 | 3 | 0.160 |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | - |  | 11 | 0.580 |  | 1 | 0.053 |  | 3 | 0.160 |  | - | - |  | 3 | 0.160 |

## UNCLASSIFIED

| Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2021 Air Force |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Date: February 2020 |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3080F / 02 / 2 |  |  |  |  |  |  |  | P-1 Line Item Number / Title: <br> 822990 / Cargo and Utility Vehicles |  |  |  |  |  |  |  | Aggregated Items Title: Cargo and Utility Vehicles |  |  |  |  |
|  | $\begin{aligned} & \text { ID } \\ & \text { CD } \end{aligned}$ | MDAP/ MAIS Code | Prior Years |  |  | FY 2019 |  |  | FY 2020 |  |  | FY 2021 Base |  |  | FY 2021 OCO |  |  | FY 2021 Total |  |  |
| Item Number / <br> Title [DODIC] |  |  | 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) |
| AFR |  |  |  | - | - |  | 1 | 0.053 |  | - | - |  | - | - |  | - | - |  | - | - |
| TRAILER LOWBED 35TON (2330-01-051-6648) | A |  | - | - | - | 0.048 | 19 | 0.913 | 0.053 | 7 | 0.371 | 0.057 | 2 | 0.113 | - | - | - | 0.057 | 2 | 0.113 |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | - |  | 19 | 0.913 |  | 6 | 0.318 |  | 2 | 0.113 |  | - | - |  | 2 | 0.113 |
| AFR |  |  |  | - | - |  | - | - |  | 1 | 0.053 |  | - | - |  | - | - |  | - | - |
| TRAILER LOWBED 20TON 25FT (2330-01-657-1333) | A |  | - | - | - | 0.032 | 1 | 0.032 | 0.035 | 2 | 0.069 | 0.035 | 19 | 0.674 | - | - | - | 0.035 | 19 | 0.674 |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | - |  | - | - |  | 2 | 0.069 |  | 19 | 0.674 |  | - | - |  | 19 | 0.674 |
| AFNG |  |  |  | - | - |  | 1 | 0.032 |  | - | - |  | - | - |  | - | - |  | - | - |
| TRK CGO 4DR 4X4 TLR TWG (2320-01-424-2760) | A |  | - | - | - | 0.030 | 35 | 1.035 | 0.031 | 11 | 0.340 | 0.038 | 10 | 0.384 | - | - | - | 0.038 | 10 | 0.384 |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | - |  | 34 | 1.005 |  | 11 | 0.340 |  | 9 | 0.346 |  | - | - |  | 9 | 0.346 |
| AFNG |  |  |  | - | - |  | - | - |  | - | - |  | 1 | 0.038 |  | - | - |  | 1 | 0.038 |
| AFR |  |  |  | - | - |  | 1 | 0.030 |  | - | - |  | - | - |  | - | - |  | - | - |
| TRAILER, 38 FT. SEMI (2330-01-381-9477) | A |  | - | - | - | 0.045 | 92 | 4.140 | 0.034 | 42 | 1.445 | 0.034 | 72 | 2.448 | 0.034 | 4 | 0.137 | 0.034 | 76 | 2.585 |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | - |  | 91 | 4.095 |  | 38 | 1.308 |  | 70 | 2.380 |  | 4 | 0.137 |  | 74 | 2.517 |
| AFNG |  |  |  | - | - |  | - | - |  | 3 | 0.103 |  | 2 | 0.068 |  | - | - |  | 2 | 0.068 |
| AFR |  |  |  | - | - |  | 1 | 0.045 |  | 1 | 0.034 |  | - | - |  | - | - |  | - | - |
| TRK VAN 16000-24000 GVW (2320-01-039-7929) | A |  | - | - | - | - | - | - | - | - | - | 0.074 | 2 | 0.148 | - | - | - | 0.074 | 2 | 0.148 |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | - |  | - | - |  | - | - |  | 2 | 0.148 |  | - | - |  | 2 | 0.148 |
| TRAILER, FLAT BED, 45 FT. AIR RIDE (2330-01-061-8609) | A |  | - | - | - | 0.033 | 5 | 0.166 | 0.035 | 2 | 0.070 | 0.028 | 18 | 0.497 | - | - | - | 0.028 | 18 | 0.497 |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | - |  | 5 | 0.166 |  | 2 | 0.070 |  | 18 | 0.497 |  | - | - |  | 18 | 0.497 |
| TRAILER, 50 TON LOWBED (2330-01-058-5911) | A |  | - | - | - | 0.056 | 11 | 0.612 | 0.065 | 3 | 0.195 | 0.069 | 7 | 0.481 | - | - | - | 0.069 | 7 | 0.481 |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | - |  | 11 | 0.612 |  | 3 | 0.195 |  | 7 | 0.481 |  | - | - |  | 7 | 0.481 |

## UNCLASSIFIED

| Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2021 Air Force |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Date: February 2020 |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3080F / 02 / 2 |  |  |  |  |  |  |  | P-1 Line Item Number / Title: <br> 822990 / Cargo and Utility Vehicles |  |  |  |  |  |  |  | Aggregated Items Title: Cargo and Utility Vehicles |  |  |  |  |
|  | $\begin{aligned} & \text { ID } \\ & \text { CD } \end{aligned}$ | MDAP/ MAIS Code | Prior Years |  |  | FY 2019 |  |  | FY 2020 |  |  | FY 2021 Base |  |  | FY 2021 OCO |  |  | FY 2021 Total |  |  |
| Item Number / Title [DODIC] |  |  | 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) | $\begin{gathered} \text { Unit Cost } \\ (\$ M) \end{gathered}$ | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | Total Cost <br> (\$ M) | Unit Cost (\$ M) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \\ \hline \end{gathered}$ | Total Cost <br> (\$ M) | $\begin{gathered} \text { Unit Cost } \\ (\$ M) \\ \hline \end{gathered}$ | $\begin{gathered} \text { Qty } \\ \text { (Each) } \\ \hline \end{gathered}$ | Total Cost <br> (\$ M) |
| TRAILER, LOWBED, TILT DECK, 22 TON (2330-01-657-3337) | A |  | - | - | - | 0.037 | 24 | 0.883 | 0.040 | 1 | 0.040 | 0.038 | 11 | 0.416 | - | - | - | 0.038 | 11 | 0.416 |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | - |  | 23 | 0.846 |  | 1 | 0.040 |  | 10 | 0.378 |  | - | - |  | 10 | 0.378 |
| AFNG |  |  |  | - | - |  | - | - |  | - | - |  | 1 | 0.038 |  | - | - |  | 1 | 0.038 |
| AFR |  |  |  | - | - |  | 1 | 0.037 |  | - | - |  | - | - |  | - | - |  | - | - |
| TRUCK, PICKUP, CREW CAB, <br> 1/2T, 4X4 <br> (2320-01-484-6748) | A |  | - | - | - | 0.026 | 31 | 0.798 | 0.026 | 29 | 0.746 | 0.026 | 28 | 0.720 | - | - | - | 0.026 | 28 | 0.720 |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | - |  | 29 | 0.746 |  | 22 | 0.566 |  | 21 | 0.540 |  | - | - |  | 21 | 0.540 |
| AFNG |  |  |  | - | - |  | - | - |  | 5 | 0.129 |  | 4 | 0.103 |  | - | - |  | 4 | 0.103 |
| AFR |  |  |  | - | - |  | 2 | 0.052 |  | 2 | 0.051 |  | 3 | 0.077 |  | - | - |  | 3 | 0.077 |
| TRUCK, PICKUP CREW CAB $4 \times 4,3 / 4 \mathrm{TCU}$ (2320-00-580-2955) | A |  | - | - | - | 0.035 | 132 | 4.636 | 0.033 | 110 | 3.610 | 0.042 | 100 | 4.156 | 0.042 | 19 | 0.790 | 0.042 | 119 | 4.946 |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | - |  | 122 | 4.285 |  | 51 | 1.674 |  | 76 | 3.158 |  | 19 | 0.790 |  | 95 | 3.948 |
| AFNG |  |  |  | - | - |  | 1 | 0.035 |  | 50 | 1.641 |  | 19 | 0.790 |  | - | - |  | 19 | 0.790 |
| AFR |  |  |  | - | - |  | 9 | 0.316 |  | 9 | 0.295 |  | 5 | 0.208 |  | - | - |  | 5 | 0.208 |
| TRUCK, PICKUP CREW CAB $4 \times 2,3 / 4 \mathrm{~T} \mathrm{CU}$ (2320-00-580-2954) | A |  | - | - | - | 0.032 | 111 | 3.552 | 0.028 | 83 | 2.346 | 0.031 | 47 | 1.456 | 0.031 | 8 | 0.248 | 0.031 | 55 | 1.704 |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | - |  | 108 | 3.456 |  | 36 | 1.018 |  | 43 | 1.332 |  | 8 | 0.248 |  | 51 | 1.580 |
| AFNG |  |  |  | - | - |  | - | - |  | 43 | 1.215 |  | 4 | 0.124 |  | - | - |  | 4 | 0.124 |
| AFR |  |  |  | - | - |  | 3 | 0.096 |  | 4 | 0.113 |  | - | - |  | - | - |  | - | - |
| TRUCK, STAKE AND PLATFORM 4X2 10000GVW (2320-01-250-7367) | A |  | - | - | - | 0.031 | 54 | 1.674 | 0.031 | 21 | 0.660 | 0.033 | 33 | 1.098 | - | - | - | 0.033 | 33 | 1.098 |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | - |  | 52 | 1.612 |  | 18 | 0.566 |  | 20 | 0.666 |  | - | - |  | 20 | 0.666 |
| AFNG |  |  |  | - | - |  | - | - |  | - | - |  | 8 | 0.266 |  | - | - |  | 8 | 0.266 |
| AFR |  |  |  | - | - |  | 2 | 0.062 |  | 3 | 0.094 |  | 5 | 0.166 |  | - | - |  | 5 | 0.166 |
| TRUCK, CARRYALL 4X2 8 PAX (2320-00-879-7662) | A |  | - | - | - | 0.028 | 82 | 2.284 | 0.028 | 29 | 0.808 | 0.029 | 38 | 1.090 | 0.029 | 15 | 0.430 | 0.029 | 53 | 1.520 |

## UNCLASSIFIED

| Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2021 Air Force |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Date: February 2020 |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3080F / 02 / 2 |  |  |  |  |  |  |  | P-1 Line Item Number / Title: <br> 822990 / Cargo and Utility Vehicles |  |  |  |  |  |  |  | Aggregated Items Title: Cargo and Utility Vehicles |  |  |  |  |
|  | $\begin{aligned} & \text { ID } \\ & \text { CD } \end{aligned}$ | MDAP/ <br> MAIS <br> Code | Prior Years |  |  | FY 2019 |  |  | FY 2020 |  |  | FY 2021 Base |  |  | FY 2021 OCO |  |  | FY 2021 Total |  |  |
| Item Number / <br> Title [DODIC] |  |  | 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 (\$ 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) |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | - |  | 81 | 2.256 |  | 20 | 0.557 |  | 32 | 0.918 |  | 15 | 0.430 |  | 47 | 1.348 |
| AFNG |  |  |  | - | - |  | - | - |  | 6 | 0.167 |  | 6 | 0.172 |  | - | - |  | 6 | 0.172 |
| AFR |  |  |  | - | - |  | 1 | 0.028 |  | 3 | 0.084 |  | - | - |  | - | - |  | - | - |
| TRUCK, CARRYALL 4X2 15 PAX <br> (2320-01-036-6569) | A |  | - | - | - | 0.029 | 118 | 3.422 | 0.030 | 41 | 1.223 | 0.030 | 30 | 0.895 | 0.030 | 8 | 0.239 | 0.030 | 38 | 1.134 |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | - |  | 115 | 3.335 |  | 34 | 1.014 |  | 30 | 0.895 |  | 8 | 0.239 |  | 38 | 1.134 |
| AFNG |  |  |  | - | - |  | - | - |  | 4 | 0.119 |  | - | - |  | - | - |  | - | - |
| AFR |  |  |  | - | - |  | 3 | 0.087 |  | 3 | 0.090 |  | - | - |  | - | - |  | - | - |
| TRUCK, CARRYALL 4X2 7 PAX (2320-01-173-6113) | A |  | - | - | - | 0.023 | 30 | 0.683 | 0.023 | 9 | 0.207 | 0.023 | 13 | 0.296 | 0.023 | 1 | 0.023 | 0.023 | 14 | 0.319 |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | - |  | 30 | 0.683 |  | 9 | 0.207 |  | 13 | 0.296 |  | 1 | 0.023 |  | 14 | 0.319 |
| TRUCK, PICKUP 4X4 1/2 T 4600 \& 5799 GVW (2320-00-811-6869) | A |  | - | - | - | 0.026 | 49 | 1.296 | 0.026 | 55 | 1.455 | 0.028 | 32 | 0.897 | - | - | - | 0.028 | 32 | 0.897 |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | - |  | 46 | 1.217 |  | 30 | 0.794 |  | 24 | 0.673 |  | - | - |  | 24 | 0.673 |
| AFNG |  |  |  | - | - |  | - | - |  | 22 | 0.582 |  | 5 | 0.140 |  | - | - |  | 5 | 0.140 |
| AFR |  |  |  | - | - |  | 3 | 0.079 |  | 3 | 0.079 |  | 3 | 0.084 |  | - | - |  | 3 | 0.084 |
| SUV, 4X4 COMPACT 4500 GVW (2320-01-563-7478) | A |  | - | - | - | 0.027 | 27 | 0.729 | 0.025 | 5 | 0.125 | 0.026 | 8 | 0.205 | 0.025 | 3 | 0.075 | 0.025 | 11 | 0.280 |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | - |  | 27 | 0.729 |  | 5 | 0.125 |  | 8 | 0.205 |  | 3 | 0.075 |  | 11 | 0.280 |
| VAN, MAINTENANCE UTILITY DELIVERY (2320-01-176-2223) | A |  | - | - | - | 0.037 | 118 | 4.366 | 0.031 | 52 | 1.634 | 0.031 | 60 | 1.883 | 0.031 | 5 | 0.157 | 0.031 | 65 | 2.040 |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | - |  | 95 | 3.515 |  | 29 | 0.910 |  | 58 | 1.820 |  | 5 | 0.157 |  | 63 | 1.977 |
| AFNG |  |  |  | - | - |  | 1 | 0.037 |  | 4 | 0.126 |  | - | - |  | - | - |  | - | - |
| AFR |  |  |  | - | - |  | 22 | 0.814 |  | 19 | 0.598 |  | 2 | 0.063 |  | - | - |  | 2 | 0.063 |
| TRUCK, TRACTOR 44.5 G (2320-00-271-1432) | A |  | - | - | - | 0.142 | 38 | 5.404 | 0.142 | 26 | 3.697 | 0.135 | 10 | 1.348 | 0.135 | 35 | 4.725 | 0.135 | 45 | 6.073 |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | - |  | 37 | 5.262 |  | 22 | 3.128 |  | 2 | 0.270 |  | 35 | 4.725 |  | 37 | 4.995 |

## UNCLASSIFIED

## Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2021 Air Force

Appropriation / Budget Activity / Budget Sub Activity:
3080F / 02 / 2

P-1 Line Item Number / Title:
822990 / Cargo and Utility Vehicles

Date: February 2020

3080F / 02 / 2

|  |  |  | Prior Years |  |  | FY 2019 |  |  | FY 2020 |  |  | FY 2021 Base |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Item Number / Title [DODIC] | $\begin{aligned} & \text { ID } \\ & C D \end{aligned}$ | MDAP/ <br> MAIS <br> Code | Unit Cost (\$ M) | $\underset{\text { (Each) }}{\text { Qty }}$ | 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) | $\underset{(\text { (Each) }}{\text { Qty }}$ | Total Cost <br> (\$ M) |
| AFNG |  |  |  | - | - |  | - | - |  | 3 | 0.427 |  | 5 | 0.674 |
| AFR |  |  |  | - | - |  | 1 | 0.142 |  | 1 | 0.142 |  | 3 | 0.404 |
| TRUCK, VAN <br> PANEL 4X2 <br> (2320-01-013-2754) | A |  | - | - | - | 0.024 | 69 | 1.656 | 0.028 | 35 | 0.963 | 0.024 | 25 | 0.600 |

Aggregated Items Title:
Cargo and Utility Vehicles

| FY 2021 OCO |  | FY 2021 Total |  |  |  |
| :---: | ---: | ---: | ---: | ---: | ---: |
| Unit Cost <br> $(\$ M)$ | Qty <br> (Each) | Total <br> Cost <br> $(\$ M)$ | Unit Cost <br> $(\$ M)$ | Qty <br> (Each) | Total <br> Cost <br> $(\$ M)$ |
|  | - | - |  | 5 | 0.674 |
|  | - | - |  | 3 | 0.404 |
| 0.024 | 18 | 0.432 | 0.024 | 43 | 1.032 |


| - | - |  |
| :---: | :---: | :---: |
| - | - |  |
| - | - |  |
| - | - |  |


| - |  | 65 |  |
| :--- | ---: | ---: | ---: |
|  |  | 1 |  |
|  |  | 3 |  |
|  | - | - |  |


| 1.560 |  | 26 | 0.715 |  | 25 | 0.600 |
| ---: | ---: | ---: | ---: | ---: | ---: | ---: |
| 0.024 |  | 5 | 0.138 |  | - | - |
| 0.072 |  | 4 | 0.110 |  | - | - |
| - | - | - | - | - | - | - |


|  | 18 | 0.432 |  | 43 |  |
| ---: | ---: | ---: | ---: | ---: | ---: |
|  | - | - |  | - |  |
|  | - | - |  | - |  |
|  | 3 | 0.322 | 0.107 | 3 |  |





Secondary Distribution



## UNCLASSIFIED

| Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2021 Air Force |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Date: February 2020 <br> Aggregated Items Title: Cargo and Utility Vehicles |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3080F / 02 / 2 |  |  |  |  |  |  |  | P-1 Line Item Number / Title: 822990 / Cargo and Utility Vehicles |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  | ior Yea |  | FY 2019 |  |  | FY 2020 |  |  | FY 2021 Base |  |  | FY 2021 OCO |  |  | FY 2021 Total |  |  |
| Item Number / Title [DODIC] | $\begin{aligned} & \mathrm{ID} \\ & \mathrm{CD} \end{aligned}$ | $\begin{aligned} & \text { MDAPI } \\ & \text { MAIS } \\ & \text { code } \end{aligned}$ | 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 <br> (\$ 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) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | Total Cost <br> (\$ M) |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - |  |  | 52 | 1.456 |  | 28 | 0.730 |  | - | - |  | 31 | 0.739 |  | 31 | 0.739 |
| AFNG |  |  |  | - |  |  | 4 | 0.112 |  | 27 | 0.704 |  | 18 | 0.429 |  | - | - |  | 18 | 0.429 |
| AFR |  |  |  | - | - |  | 9 | 0.252 |  | 15 | 0.391 |  | 16 | 0.382 |  | - | - |  | 16 | 0.382 |
| TRK TRAC MSL SPT $(2320-00-344-4397)$ (2320-00-344-4397) | A |  | - | - | - | - | - | - | 0.180 | 5 | 0.900 | 0.160 | 1 | 0.160 | 0.160 | 4 | 0.640 | 0.160 | 5 | 0.800 |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | - |  | - | - |  | 5 | 0.900 |  | - | - |  | 4 | 0.640 |  | 4 | 0.640 |
| AFNG |  |  |  | - | - |  | - | - |  | - | - |  | 1 | 0.160 |  | - | - |  | 1 | 0.160 |
| TRAILER, BOLSTER (2330-01-657-3338) | A |  | - | - | - | - | - | - | - | - | - | 0.015 | 2 | 0.029 | - | - | - | 0.015 | 2 | 0.029 |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | - |  | - | - |  | - | - |  | 2 | 0.029 |  | - | - |  | 2 | 0.029 |
| 12 TON STAKE PLATFORM TRAILER (2330-01-657-3331) | A |  | - | - | - | 0.041 | 10 | 0.410 | 0.046 | 3 | 0.137 | 0.046 | 24 | 1.099 | - | - | - | 0.046 | 24 | 1.099 |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | - |  | 9 | 0.369 |  | 3 | 0.137 |  | 1 | 0.046 |  | - | - |  | 1 | 0.046 |
| AFNG |  |  |  | - | - |  | - | - |  | - | - |  | 18 | 0.824 |  | - | - |  | 18 | 0.824 |
| AFR |  |  |  | - | - |  | 1 | 0.041 |  | - | - |  | 5 | 0.229 |  | - | - |  | 5 | 0.229 |
| TLR FB 3-8 TON (2330-00-014-0494) | A |  | - | - | - | - | - | . | - | - | - | 0.019 | 4 | 0.076 | - | - | - | 0.019 | 4 | 0.076 |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | - |  | - | - |  | - | - |  | 4 | 0.076 |  | - | - |  | 4 | 0.076 |
| TRK TRACTOR (2320-01-482-9775) | A |  | - | - | - | 0.365 | 8 | 2.920 | - | - | - | 0.183 | 5 | 0.915 | - | - | - | 0.183 | 5 | 0.915 |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | - |  | 8 | 2.920 |  | - | - |  | 5 | 0.915 |  | - | - |  | 5 | 0.915 |
| TRAILER,DETACHA GOOSENECK 60TON (2330-00-349-2572) |  |  | - | - | - | 0.070 | 32 | 2.246 | 0.079 | 12 | 0.953 | 0.082 | 27 | 2.226 | 0.082 | 10 | 0.825 | 0.082 | 37 | 3.051 |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | - |  | 32 | 2.246 |  | 12 | 0.953 |  | 5 | 0.410 |  | 10 | 0.825 |  | 15 | 1.235 |
| AFNG |  |  |  | - | - |  | - | - |  | - | - |  | 18 | 1.486 |  | - | - |  | 18 | 1.486 |
| AFR |  |  |  | - | - |  | - | - |  | - | - |  | 4 | 0.330 |  | - | - |  | 4 | 0.330 |
| Subtotal: Uncategorized (1) |  |  | - | - | - | - | $\cdot$ | 63.636 | - | - | 32.835 | - | - | 38.920 | - | - | 12.475 | - | - | 51.395 |
| Total |  |  | - | - | - | - | - | 63.636 | - | - | 32.835 | - | - | 38.920 | - | - | 12.475 | - | - | 51.395 |

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

## Remarks:

Based on AF Mission changes and/or AF Mission priorities, NSNs and/or quantities may change during year of execution.

UNCLASSIFIED

| Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2021 Air Force | Date: February 2020 |  |
| :--- | :--- | :--- |
| Appropriation / Budget Activity / Budget Sub Activity: <br> $3080 \mathrm{~F} / 02$ / 2 | P-1 Line Item Number / Title: <br> $822990 ~ / ~ C a r g o ~ a n d ~ U t i l i t y ~ V e h i c l e s ~$ | Aggregated Items Title: <br> Cargo and Utility Vehicles |

UNIT COSTS FOR FY21 ARE SUBJECT TO CHANGE.
PMA OTHER GOVERNMENT COSTS: This line supports the operation of the program office in its management and oversight role via travel, procurement of supplies and studies.

Exhibit P-40, Budget Line Item Justification: PB 2021 Air Force
Date: February 2020

| Appropriation / Budget Activity / Budget Sub Activity: | P-1 Line Item Number / Title: |
| :--- | :--- | :--- |
| 3080F: Other Procurement, Air Force / BA 02: Vehicular Equipment / BSA 3: Special | 823210 / Joint Light Tactical Vehicle |
| Purpose Vehicles |  |

## Purpose Vehicles

| ID Code (A=Service Ready, $\mathrm{B}=$ Not Service Ready) |  |  | Program Ele | ents for Cod | $B$ Items: N |  |  | Other Relate | Program E | ents: N/A |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Line Item MDAP/MAIS Code: N/A |  |  |  |  |  |  |  |  |  |  |  |  |
| Resource Summary | Prior <br> Years | FY 2019 | FY 2020 | $\begin{gathered} \text { FY } 2021 \\ \text { Base } \end{gathered}$ | $\begin{gathered} \text { FY } 2021 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \text { FY } 2021 \\ \text { Total } \end{gathered}$ | FY 2022 | FY 2023 | FY 2024 | FY 2025 | To Complete | Total |
| Procurement Quantity (Units in Each) | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Cost (\$ in Millions) | - | 46.177 | 73.026 | 30.544 | 26.150 | 56.694 | 88.572 | 73.249 | 176.157 | 66.510 | - | 580.385 |
| Less PY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Net Procurement (P-1) (\$ in Millions) | - | 46.177 | 73.026 | 30.544 | 26.150 | 56.694 | 88.572 | 73.249 | 176.157 | 66.510 | - | 580.385 |
| Plus CY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Total Obligation Authority (\$ in Millions) | - | 46.177 | 73.026 | 30.544 | 26.150 | 56.694 | 88.572 | 73.249 | 176.157 | 66.510 | - | 580.385 |
| (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:

FY19 funding totals include $\$ 17.482 \mathrm{M}$ appropriated for Overseas Contingency Operations.
FY20 funding totals include $\$ 40.999 \mathrm{M}$ appropriated for Overseas Contingency Operations.


 companion trailer that is available with the vehicle to replace the HMMWV trailer (M1101/M1102).

 others are currently being developed through Work Directives generated and worked through the JPO.

General Purpose (GP) JLTV - The GP JLTV is the base vehicle that carries a 4 man-crew with a payload of 3,500 Ibs. Users: ACC, AFMC, AMC, PACAF, USAFE
Utility (UT) JLTV - The Utility JLTV carries a 2 man crew for cargo delivery or shelter carrier. It supports a payload of $5,100 \mathrm{lbs}$. Users: ACC, AFMC, AMC, PACAF
 or RWS. Users: AETC, AFCENT, AFGSC, AFSPC, AMC, PACAF, USAFE

JLTV Trailer - The JLTV Trailer is capable of meeting similar mobility characteristics to the prime mover and is capable of safely carrying payload of 5500 lbs. Users: EOD
 tires, combat bumpers, and explosively formed projectile protection kits

## Appropriation / Budget Activity / Budget Sub Activity:

## P-1 Line Item Number / Title:

## 3080F: Other Procurement, Air Force / BA 02: Vehicular Equipment / BSA 3: Special 823210 / Joint Light Tactical Vehicle

 Purpose Vehicles| 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

Government Furnished Equipment (GFE): There are two types of GFE related to the JLTV, Expansion Kits and Overhead Equipment.

- Expansion Kits: These kits are installed during vehicle production and provide all necessary cabling (power, signal, RF), connectors, and hardware to enable installation of Mission Specific Equipment above and beyond the Contractor furnished Base Vehicle Platform Infrastructure and Baseline Integration Kits. These expansion kits include, but are not limited to, VRC radio kits, CREW-CVRJ kits, DVE kits, and shot detection kits.
- Overhead Equipment: Currently, the only Overhead GFE installed during production is the M1114 Turret Ring and Hatch. The M1114 Ring and Hatch will apply to all HGC JLTV configurations.

Field Service Representative (FSR) Support: OEM and/or contractor FSR support is required to provide de-processing (acceptance inspections) and Operator and Maintainer Training when the vehicles are delivered to the user locations. FSRs will may install any Mission Specific Equipment and additional overhead GFE as required by the user.

Work Directives: Studies and engineering tasks are performed by the Army Joint Program Office or OEM engineers to ensure compatibility and operability on any new AF specific requirements that will be added to the JLTV based on user requirements. Work Directives will also be required for any repairs prior to JPO long term repair and maintenance contracts are awarded.

This requirement (or modification) supports performance of a full financial audit as required by title 10 U.S.C. Chapter 9A, Sec 240-D.
In accordance with Section 1815 of the FY 2008 National Defense Authorization (P.L. 110-181), this item is necessary for use by the active and reserve components of the Armed Forces for homeland defense missions, domestic emergency responses, and providing military support to civil authorities.

Funding for this exhibit contained in PEs: 0202843F, 0507831F, 0502831F, 0702831F

| Secondary Distribution |  | FY 2019 | FY 2020 | $\begin{gathered} \hline \text { FY } 2021 \\ \text { Base } \end{gathered}$ | $\begin{gathered} \text { FY } 2021 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \hline \text { FY } 2021 \\ \text { Total } \end{gathered}$ | FY 2022 | FY 2023 | FY 2024 | FY 2025 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| AF | Quantity | 101 | 140 | 76 | 56 | 132 | - | - | - | - |
|  | Total Obligation Authority | 45.639 | 70.918 | 28.110 | 26.150 | 54.260 | - | - | - | - |
| AFNG | Quantity | 1 | 5 | 7 | 0 | 7 | - | - | - | - |
|  | Total Obligation Authority | 0.269 | 1.688 | 1.622 | 0.000 | 1.622 | - | - | - | - |
| AFR | Quantity | 1 | 1 | 3 | 0 | 3 | - | - | - | - |
|  | Total Obligation Authority | 0.269 | 0.420 | 0.812 | 0.000 | 0.812 | - | - | - | - |
| Total: <br> Secondary Distribution | Quantity | 103 | 146 | 86 | 56 | 142 | - | - | - | - |
|  | Total Obligation Authority | 46.177 | 73.026 | 30.544 | 26.150 | 56.694 | - | - | - | - |

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

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

## Justification

FY21 procurement dollars in the amount of $\$ 30.544 \mathrm{M}$ will procure, but not be limited to, 86 vehicles in support of installation and unit mission requirements for Air Force personnel

FY21 OCO dollars in the amount of $\$ 26.150 \mathrm{M}$ will procure, but not be limited to, 56 vehicles in support of installation and unit mission requirements for Air Force personnel.

 of life projections based on depreciation and service life of the vehicle, cumulative sustainment cost and mission priority
 European Deterrence Initiative (EDI), Regional Base Cluster Prepositioning Kits (RBCP) for PACOM, and other initiatives as they arise.
 change based on fluctuations in contract pricing.

## UNCLASSIFIED

| Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2021 Air Force |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Date: February 2020 <br> Aggregated Items Title: Joint Light Tactical Vehicle |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3080F / 02 / 3 |  |  |  |  |  |  |  | P-1 Line Item Number / Title: 823210 / Joint Light Tactical Vehicle |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  | ior Year |  | FY 2019 |  |  | FY 2020 |  |  | FY 2021 Base |  |  | FY 2021 OCO |  |  | FY 2021 Total |  |  |
| Item Number / Title [DODIC] | $\begin{aligned} & \mathrm{ID} \\ & \mathrm{CD} \end{aligned}$ | $\begin{array}{\|l\|l\|} \hline \text { MDAPI } \\ \text { MAIS } \\ \text { Code } \end{array}$ | Unit Cost (\$ M) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | Total Cost (\$ M) | Unit Cost (\$ M) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | $\begin{aligned} & \text { Total } \\ & \text { Cost } \end{aligned}$ $(\$ M)$ | 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 (\$ 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 <br> (\$ M) |
| Uncategorized |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| M1114 TURRET RING AND HATCH ADAPTER | A |  | - | - | - | - | - | - | - | - | 2.276 | - | - | 0.364 | - | - | 0.601 | - | - | 0.965 |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | - |  | - | - |  | - | 2.276 |  | - | 0.364 |  | - | 0.601 |  | - | 0.965 |
| PMA: CONTRACTOR SERVICES | A |  | - | - | - | - | - | ${ }^{0.523}$ | - | - | 1.512 | - | - | 0.786 | - | - | - | - | - | 0.786 |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | - |  | - | 0.523 |  | - | 1.512 |  | - | 0.786 |  | - | - |  | - | 0.786 |
| FIELD SERVICE REPRESENTATIVE SUPPORT (FSR) | A |  | - | - | - | - | - | - | - | - | 12.748 | - | - | 1.786 | - | - | 1.964 | - | - | 3.750 |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | - |  | - | - |  | - | 12.748 |  | - | 1.786 |  | - | 1.964 |  | - | 3.750 |
| CONTRACTOR FURNISHED EQUIPMENT (CFE) | A |  | - | - | - | - | - | 9.000 | - | - | 10.105 | - | - | 5.444 | - | - | 4.235 | - | - | 9.679 |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | - |  | - | 9.000 |  | - | 9.624 |  | - | 4.915 |  | - | 4.235 |  | - | 9.150 |
| AFNG |  |  |  | - | - |  | - | - |  | - | 0.401 |  | - | 0.302 |  | - | - |  | - | 0.302 |
| AFR |  |  |  | - | - |  | - | - |  | - | 0.080 |  | - | 0.227 |  | - | - |  | - | 0.227 |
| WORK DIRECTIVES COMPONENT SPLIT | A |  | - | - | - | - | - | 1.000 | - | - | - | - | - | 0.325 | - | - | - | - | - | 0.325 |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | - |  | - | 1.000 |  | - | - |  | - | 0.325 |  | - | - |  | - | 0.325 |
| $\begin{aligned} & \hline \text { JLTV TRAILER } \\ & \text { 2330-01-653-9745 } \\ & \hline \end{aligned}$ | A |  | - | - | - | - | - | - | 0.060 | ${ }^{6}$ | 0.360 | 0.052 | 16 | 0.836 | - | - | - | 0.052 | 16 | 0.836 |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | - |  | - | - |  | 6 | 0.360 |  | 11 | 0.575 |  | - | - |  | 11 | 0.575 |
| AFNG |  |  |  | - | - |  | - | - |  | - | - |  | 4 | 0.209 |  | - | - |  | 4 | 0.209 |
| AFR |  |  |  | - | - |  | - | - |  | - | - |  | 1 | 0.052 |  | - | - |  | 1 | 0.052 |
| PMA OTHER GOVERNMENT costs | A |  | - | - | - | - | - | 0.021 | - | - | 0.030 | - | . | 0.015 | - | - | - | - | - | 0.015 |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | - |  | - | 0.021 |  | - | 0.030 |  | - | 0.015 |  | - | - |  | - | 0.015 |
| JLTV, HEAVY GUNS CARRIER (HGC) (2320-01-653-6495) | A |  | - | . | . | 0.269 | 4 | 11.029 | 0.260 | 123 | 31.969 | 0.274 | 16 | 4.388 | 0.274 | 34 | 9.326 | 0.274 | 50 | 13.714 |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

## UNCLASSIFIED

| Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2021 Air Force |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Date: February 2020 |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3080F / 02 / 3 |  |  |  |  |  |  |  | P-1 Line Item Number / Title: <br> 823210 / Joint Light Tactical Vehicle |  |  |  |  |  |  |  | Aggregated Items Title: Joint Light Tactical Vehicle |  |  |  |  |
|  | $\begin{aligned} & \mathrm{ID} \\ & \mathrm{CD} \end{aligned}$ | MDAP/ MAIS Code | Prior Years |  |  | FY 2019 |  |  | FY 2020 |  |  | FY 2021 Base |  |  | FY 2021 OCO |  |  | FY 2021 Total |  |  |
| Item Number / Title [DODIC] |  |  | 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) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | 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) |
| AF |  |  |  | - | - |  | 40 | 10.760 |  | 120 | 31.189 |  | 15 | 4.114 |  | 34 | 9.326 |  | 49 | 13.440 |
| AFNG |  |  |  | - | - |  | - | - |  | 2 | 0.520 |  | 1 | 0.274 |  | - | - |  | 1 | 0.274 |
| AFR |  |  |  | - | - |  | 1 | 0.269 |  | 1 | 0.260 |  | - | - |  | - | - |  | - | - |
| GOVERNMENT FURNISHED EQUIPMENT (GFE) KITS | A |  | - | - | - | - | - | 8.080 | - | - | 9.704 | - | - | 2.195 | - | - | 4.159 | - | - | 6.354 |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | - |  | - | 8.080 |  | - | 9.624 |  | - | 1.891 |  | - | 4.159 |  | - | 6.050 |
| AFNG |  |  |  | - | - |  | - | - |  | - | - |  | - | 0.304 |  | - | - |  | - | 0.304 |
| AFR |  |  |  | - | - |  | - | - |  | - | 0.080 |  | - | - |  | - | - |  | - | - |
| JLTV, UTIIITY (UT) 2320-01-653-6516 | A |  | - | - | - | 0.258 | 14 | 3.612 | 0.249 | 8 | 1.990 | 0.260 | 27 | 7.021 | 0.260 | 11 | 2.860 | 0.260 | 38 | 9.881 |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | - |  | 14 | 3.612 |  | 7 | 1.741 |  | 25 | 6.501 |  | 11 | 2.860 |  | 36 | 9.361 |
| AFNG |  |  |  | - | - |  | - | - |  | 1 | 0.249 |  | 1 | 0.260 |  | - | - |  | 1 | 0.260 |
| AFR |  |  |  | - | - |  | - | - |  | - | - |  | 1 | 0.260 |  | - | - |  | 1 | 0.260 |
| JLTV, GENERAL PURPOSE (GP) 2320-01-653-6557 | A |  | - | - | - | 0.269 | 48 | 12.912 | 0.259 | 9 | 2.332 | 0.273 | 27 | 7.384 | 0.273 | 11 | 3.005 | 0.273 | 38 | 10.389 |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | - |  | 47 | 12.643 |  | 7 | 1.814 |  | 25 | 6.838 |  | 11 | 3.005 |  | 36 | 9.843 |
| AFNG |  |  |  | - | - |  | 1 | 0.269 |  | 2 | 0.518 |  | 1 | 0.273 |  | - | - |  | 1 | 0.273 |
| AFR |  |  |  | - | - |  | - | - |  | - | - |  | 1 | 0.273 |  | - | - |  | 1 | 0.273 |
| Subtotal: Uncategorized |  |  | - | - | - | - | - | 46.177 | - | - | 73.026 | - | - | 30.544 | - | - | 26.150 | - | - | 56.694 |
| Total |  |  | - | - | - | - | - | 46.177 | - | - | 73.026 | - | - | 30.544 | - | - | 26.150 | - | - | 56.694 |

Note: Subtotals or Totals in this Exhibit P-40a may not be exact or sum exactly, due to rounding.
Remarks:
Based on AF Mission changes and/or AF Mission priorities, NSNs and/or quantities may change during year of execution
UNIT COSTS FOR FY21 ARE SUBJECT TO CHANGE.
PMA OTHER CONTRACTOR SERVICES: This funding includes provisions for government contract oversight, technical expertise, and program office support associated with the JLTV program
PMA OTHER GOVERNMENT COSTS: This line supports the operation of the program office in its management and oversight role via travel, procurement of supplies and studies

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Exhibit P-40, Budget Line Item Justification: PB 2021 Air Force
Date: February 2020

## Appropriation / Budget Activity / Budget Sub Activity:

## P-1 Line Item Number / Title:

## 3080F: Other Procurement, Air Force / BA 02: Vehicular Equipment / BSA 3: Special 823230 / Security And Tactical Vehicles

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

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

| Resource Summary | Prior Years | FY 2019 | FY 2020 | $\begin{gathered} \text { FY } 2021 \\ \text { Base } \end{gathered}$ | $\begin{gathered} \text { FY } 2021 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \text { FY } 2021 \\ \text { Total } \end{gathered}$ | FY 2022 | FY 2023 | FY 2024 | FY 2025 | To Complete | Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Procurement Quantity (Units in Each) | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Cost (\$ in Millions) | - | 1.113 | 1.315 | 0.319 | 0.000 | 0.319 | 0.404 | 0.418 | 0.425 | 0.433 | - | 4.427 |
| Less PY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Net Procurement (P-1) (\$ in Millions) | - | 1.113 | 1.315 | 0.319 | 0.000 | 0.319 | 0.404 | 0.418 | 0.425 | 0.433 | - | 4.427 |
| Plus CY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Total Obligation Authority (\$ in Millions) | - | 1.113 | 1.315 | 0.319 | 0.000 | 0.319 | 0.404 | 0.418 | 0.425 | 0.433 | - | 4.427 |
| (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 Dollars) | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Unit Cost (\$ in Dollars) | - | - | - | - | - | - | - | - | - | - | - | - |

## Description:

FY19 funding totals include $\$ 0.130 \mathrm{M}$ appropriated for Overseas Contingency Operations.


 Support Vehicles (JAASV) and Commercial Armored Tactical Vehicle (CATV).

 primarily for hauling cargo.
 degrees Fahrenheit. As a tracked, amphibious platform, it will have a light footprint and be transportable by a CH-47, UH-60 or C-130.

 can accommodate weapons mounts for an M249, Mk19, M2 .50 Cal and additional weapons as necessary. The primary user is Global Strike Command.







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

## Appropriation / Budget Activity / Budget Sub Activity:

## P-1 Line Item Number / Title:

## 3080F: Other Procurement, Air Force / BA 02: Vehicular Equipment / BSA 3: Special 823230 / Security And Tactical Vehicles

 Purpose VehiclesID 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

 contract termination and Program Management Administration until a follow-on requirement is identified. Funding for GAARV is in Program Element 0207227F.

This requirement (or modification) supports performance of a full financial audit as required by title 10 U.S.C. Chapter 9A, Sec 240-D.
 defense missions, domestic emergency responses, and providing military support to civil authorities.

Funding for this exhibit contained in PEs 0202834F, 0207227F, 0507831F, 0502831F, 0702831F.

| Secondary Distribution |  | FY 2019 | FY 2020 | FY 2021 Base | $\begin{gathered} \text { FY } 2021 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \text { FY } 2021 \\ \text { Total } \end{gathered}$ | FY 2022 | FY 2023 | FY 2024 | FY 2025 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| AF | Quantity | 11 | 0 | 0 | 0 | 0 | - | - | - | - |
|  | Total Obligation Authority | 0.965 | 1.171 | 0.205 | 0.000 | 0.205 | - | - | - | - |
| AFNG | Quantity | 8 | 11 | 9 | 0 | 9 | - | - | - | - |
|  | Total Obligation Authority | 0.099 | 0.105 | 0.114 | 0.000 | 0.114 | - | - | - | - |
| AFR | Quantity | 4 | 4 | 0 | 0 | 0 | - | - | - | - |
|  | Total Obligation Authority | 0.049 | 0.039 | 0.000 | 0.000 | 0.000 | - | - | - | - |
| Total: <br> Secondary Distribution | Quantity | 23 | 15 | 9 | 0 | 9 | - | - | - | - |
|  | Total Obligation Authority | 1.113 | 1.315 | 0.319 | 0.000 | 0.319 | - | - | - | - |

## Justification:

FY21 procurement dollars in the amount of $\$ 0.319 \mathrm{M}$ will procure, but not be limited to, 9 vehicles in support of installation and unit mission requirements for Air Force personnel.

 of life projections based on depreciation and service life of the vehicle, cumulative sustainment cost and mission priority.
 European Deterrence Initiative (EDI), Regional Base Cluster Prepositioning Kits (RBCP) for PACOM, and other initiatives as they arise.

As the model applies the life expectancy/sustainment cost/mission priority logic in generating requirements, there can be gaps in individual vehicle type (NSN) requirements from year-to-year.

 fluctuations in contract pricing.

Exhibit P-40, Budget Line Item Justification: PB 2021 Air Force
Date: February 2020

| Appropriation / Budget Activity / Budget Sub Activity: | P-1 Line Item Number / Title: |
| :--- | :--- | :--- |
| 3080F: Other Procurement, Air Force / BA 02: Vehicular Equipment / BSA 3: Special | 823990 / Special Purpose Vehicles |
| Purpose Vehicles |  |

## Purpose Vehicles

| ID Code (A=Service Ready, B=Not Service Ready) |  |  | Program Ele | ents for Cod | B Items: N |  |  | Other Relate | Program El | ments: N/A |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Line Item MDAP/MAIS Code: N/A |  |  |  |  |  |  |  |  |  |  |  |  |
| Resource Summary | Prior <br> Years | FY 2019 | FY 2020 | $\begin{gathered} \text { FY } 2021 \\ \text { Base } \end{gathered}$ | $\begin{gathered} \text { FY } 2021 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \text { FY } 2021 \\ \text { Total } \end{gathered}$ | FY 2022 | FY 2023 | FY 2024 | FY 2025 | To Complete | Total |
| Procurement Quantity (Units in Each) | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Cost (\$ in Millions) | - | 78.383 | 67.401 | 43.157 | 51.254 | 94.411 | 74.057 | 51.696 | 90.586 | 84.062 | - | 540.596 |
| Less PY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Net Procurement (P-1) (\$ in Millions) | - | 78.383 | 67.401 | 43.157 | 51.254 | 94.411 | 74.057 | 51.696 | 90.586 | 84.062 | - | 540.596 |
| Plus CY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Total Obligation Authority (\$ in Millions) | - | 78.383 | 67.401 | 43.157 | 51.254 | 94.411 | 74.057 | 51.696 | 90.586 | 84.062 | - | 540.596 |
| (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:

FY19 funding totals include $\$ 34.680 \mathrm{M}$ appropriated for Overseas Contingency Operations.
FY20 funding totals include $\$ 52.502 \mathrm{M}$ appropriated for Overseas Contingency Operations.




 used primarily to wet down and control dust at a construction site.

This requirement (or modification) supports performance of a full financial audit as required by title 10 U.S.C. Chapter 9A, Sec 240-D.
 defense missions, domestic emergency responses, and providing military support to civil authorities.

Funding for this exhibit contained in PEs 0207142F, 0202834F, 0207597F, 0401319F, 0507831F, 0502831F, 0702831F.

| Secondary Distribution |  | FY 2019 | FY 2020 | FY 2021 <br> Base | $\begin{aligned} & \text { FY } 2021 \\ & \text { OCO } \end{aligned}$ | $\begin{gathered} \text { FY } 2021 \\ \text { Total } \end{gathered}$ | FY 2022 | FY 2023 | FY 2024 | FY 2025 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| AF | Quantity | 339 | 329 | 203 | 260 | 463 | - | - | - | - |
|  | Total Obligation Authority | 76.493 | 60.339 | 36.077 | 51.254 | 87.331 | - | - | - | - |
| AFNG | Quantity | 2 | 43 | 46 | 0 | 46 | - | - | - | - |


| Exhibit P-40, Budget Line Item Justification: PB 2021 Air Force |  |  |  |  |  |  |  | Date: February 2020 |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: <br> 3080F: Other Procurement, Air Force / BA 02: Vehicular Equipment / BSA 3: Special Purpose Vehicles |  |  |  |  | P-1 Line Item Number / Title: 823990 / Special Purpose Vehicles |  |  |  |  |  |
| ID Code (A=Service Ready, | ot Service Ready): A | Program Elements for Code B Items: N/A |  |  |  | Other Related Program Elements: N/A |  |  |  |  |
| Line Item MDAP/MAIS Code: N/A |  |  |  |  |  |  |  |  |  |  |
| Secondary Distribution |  | FY 2019 | FY 2020 | FY 2021 Base | $\begin{aligned} & \text { FY } 2021 \\ & \text { OCO } \end{aligned}$ | $\begin{gathered} \text { FY } 2021 \\ \text { Total } \end{gathered}$ | FY 2022 | FY 2023 | FY 2024 | FY 2025 |
|  | Total Obligation Authority | 0.098 | 5.204 | 5.213 | 0.000 | 5.213 | - | - | - | - |
| AFR | Quantity | 10 | 16 | 15 | 0 | 15 |  | - | - | - |
|  | Total Obligation Authority | 1.792 | 1.858 | 1.867 | 0.000 | 1.867 | - | - | - | - |
| Total: <br> Secondary Distribution | Quantity | 351 | 388 | 264 | 260 | 524 | - | - | - | - |
|  | Total Obligation Authority | 78.383 | 67.401 | 43.157 | 51.254 | 94.411 | - | - | - | - |

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

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

## Justification:

FY21 procurement dollars in the amount of $\$ 43.157 \mathrm{M}$ will procure, but not be limited to, 264 vehicles in support of installation and unit mission requirements for Air Force personnel.
FY21 OCO dollars in the amount of $\$ 51.254 \mathrm{M}$ will procure, but not be limited to, 260 vehicles in support of installation and unit mission requirements for Air Force personnel.

 of life projections based on depreciation and service life of the vehicle, cumulative sustainment cost and mission priority.
 European Deterrence Initiative (EDI), Regional Base Cluster Prepositioning Kits (RBCP) for PACOM, and other initiatives as they arise.

As the model applies the life expectancy/sustainment cost/mission priority logic in generating requirements, there can be gaps in individual vehicle type (NSN) requirements from year-to-year.

 fluctuations in contract pricing.

## UNCLASSIFIED

| Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2021 Air Force |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Date: February 2020 |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3080F / 02 / 3 |  |  |  |  |  |  |  | P-1 Line Item Number / Title: <br> 823990 / Special Purpose Vehicles |  |  |  |  |  |  |  |  | Aggregated Items Title: Special Purpose Vehicles |  |  |  |  |
|  | $\begin{aligned} & \text { ID } \\ & \text { CD } \end{aligned}$ |  | Prior Years |  |  | FY 2019 |  |  |  | FY 2020 |  |  | FY 2021 Base |  |  | FY 2021 OCO |  |  | FY 2021 Total |  |  |
| Item Number / <br> Title [DODIC] |  | $\begin{aligned} & \text { MDAP/ } \\ & \text { MAIS } \\ & \text { Code } \end{aligned}$ | Unit Cost (\$ M) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost (\$ M) | Unit Cost (\$ M) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ |  | 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) | 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) |
| Uncategorized |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| C5 STAIRCASE TRK <br> (1730-01-602-5661YW) | A |  | - | - | - | 0.700 |  | 1 | 0.700 | - | - | - | - | - | - | - | - | - | - | - | - |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | - |  |  | 1 | 0.700 |  | - | - |  | - | - |  | - | - |  | - | - |
| TRK HI LIFT FD-SRVG-ACFT (2320-01-305-6339) | A |  | - | - | - | - | - |  | - | - | - | - | 0.205 | 2 | 0.409 | - | - | - | 0.205 | 2 | 0.409 |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | - |  | - |  | - |  | - | - |  | 2 | 0.409 |  | - | - |  | 2 | 0.409 |
| TLR CBL REEL 10T \& OVER (2330-00-420-7079) | A |  | - | - | - | - | - |  | - | - | - | - | 0.100 | 3 | 0.300 | - | - | - | 0.100 | 3 | 0.300 |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | - |  | - |  | - |  | - | - |  | 3 | 0.300 |  | - | - |  | 3 | 0.300 |
| TRK TELE MAINT CNTRN 4X4 (2320-01-372-7398) | A |  | - | - | - | - | - |  | - | - | - | - | 0.232 | 1 | 0.232 | - | - | - | 0.232 | 1 | 0.232 |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | - |  | - |  | - |  | - | - |  | 1 | 0.232 |  | - | - |  | 1 | 0.232 |
| TRK REF CMPTR R-HP (2320-00-833-7514) | A |  | - | - | - | - | - |  | - | - | - | - | 0.126 | 2 | 0.251 | - | - | . | 0.126 | 2 | 0.251 |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | - |  | - |  | - |  | - | - |  | 2 | 0.251 |  | - | - |  | 2 | 0.251 |
| TRK TEL DIGGER DERRICK (2320-00-455-8464) | A |  | - | - | - | - | - |  | . | - | - | - | 0.283 | 1 | 0.283 | - | - | - | 0.283 | 1 | 0.283 |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | - |  | - |  | - |  | - | - |  | 1 | 0.283 |  | - | - |  | 1 | 0.283 |
| TRK RETRIEVER 4X2 (2320-01-454-0723) | A |  | - | - | 0.000 | - | - |  | - | - | . | . | - | - | - | - | . | . | - | - | - |
| TRAC ACFT TWG MB-2 CL II (1740-01-552-9854YW) | A |  | - | - | - | - | - |  | - | 0.155 | 30 | 4.650 | 0.155 | 26 | 4.030 | 0.155 | 13 | 2.015 | 0.155 | 39 | 6.045 |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | - |  | - |  | - |  | 30 | 4.650 |  | 26 | 4.030 |  | 13 | 2.015 |  | 39 | 6.045 |
| HI-REACH TRK 55 FT 4X4 (2320-01-544-3637YW) | A |  | - | - | - | - | - |  | - | 0.572 | 1 | 0.572 | 0.253 | 1 | 0.253 | - | - | - | 0.253 | 1 | 0.253 |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | - |  | - |  | - |  | 1 | 0.572 |  | 1 | 0.253 |  | - | - |  | 1 | 0.253 |

## UNCLASSIFIED

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Date: February 2020 <br> Aggregated Items Title: <br> Special Purpose Vehicles |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3080F / 02 / 3 |  |  |  |  |  |  |  | P-1 Line Item Number / Title: 823990 / Special Purpose Vehicles |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  | Prior Years |  |  | FY 2019 |  |  | FY 2020 |  |  | FY 2021 Base |  |  | FY 2021 OCO |  |  | FY 2021 Total |  |  |
| Item Number / Title [DODIC] | $\begin{aligned} & \mathrm{ID} \\ & \mathrm{CD} \end{aligned}$ | $\begin{array}{\|l\|l\|} \hline \text { MDAPI } \\ \text { MAIS } \\ \text { Code } \end{array}$ | 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 <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 (\$ M) | Unit Cost (\$ M) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost <br> (\$ M) |
| $\begin{aligned} & \hline \text { TRK TK A/ } \\ & \text { S32A-24 250 GAL } \\ & (2320-00-089-8979) \end{aligned}$ | A |  | - | - | - | - | - | - . | 0.073 | 2 | 0.146 | 0.073 | 2 | 0.145 | - | . | . | 0.073 | 2 | 0.145 |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | - |  | - | - - |  | 2 | 0.146 |  | 2 | 0.145 |  | - | - |  | 2 | 0.145 |
| TRK HI REA 30\&59FT (2320-00-995-5610YW | A |  | - | - | - | - | - | - - | 0.268 | 5 | 1.340 | 0.209 | 5 | 1.046 | - | - | - | 0.209 | 5 | 1.046 |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | - |  | - | - |  | 5 | 1.340 |  | 5 | 1.046 |  | - | - |  | 5 | 1.046 |
| HI REACH MAINT PLATFORM (2320-01-249-0097YW | ${ }^{\text {A }}$ |  | - | - | - | - | - | - - | - | . | - | 0.684 | 1 | 0.684 | - | - | - | 0.684 | 1 | 0.684 |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | - |  | - | - - |  | - | - |  | 1 | 0.684 |  | - | - |  | 1 | 0.684 |
| TRK WKR HYD TYP1 32000GVW (2320-01-303-3010) | A |  | - | - | - | - | - | - | 0.128 | 1 | 0.128 | 0.145 | 1 | 0.145 | - | - | - | 0.145 | 1 | 0.145 |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | - |  |  | - - |  | 1 | 0.128 |  | 1 | 0.145 |  | - | - |  | 1 | 0.145 |
| TRK MAINT TP UTIL 10000G (2320-01-343-7375) | A |  | - | - | - | - |  | - | - | - | - | 0.037 | 2 | 0.073 | - | - | - | 0.037 | 2 | 0.073 |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | - |  |  | - - |  | - | - |  | 2 | 0.073 |  | - | - |  | 2 | 0.073 |
| TRK, WRECKER TILT-BED (2320-01-380-4755) | A |  | - | - | - | - |  | - - | 0.095 | 4 | 0.380 | 0.108 | 2 | 0.216 | - | - | - | 0.108 | 2 | 0.216 |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | - |  |  | - - |  | 4 | 0.380 |  | 2 | 0.216 |  | - | - |  | 2 | 0.216 |
| TRK MOBILE X-RAY (2320-01-563-7052) | A |  | - | - | - | - |  | - . | - | - | - | 1.200 | 3 | 3.600 | - | - | - | 1.200 | 3 | 3.600 |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | - |  | - | - - |  | - | - |  | 3 | 3.600 |  | - | - |  | 3 | 3.600 |
| MOBILE MAINTENANCE TRUCK W/CRANE (2320-01-644-1450) | A |  | - | - | 0.000 | - |  | - | - | . | - | - | - | - | - | . | . | - | - |  |
| TRLR FUEL SRVG 600 GAL (2330-00-289-8934) | A |  | - | - | - | - |  | - | - | - | - | 0.034 | 2 | 0.067 | - | - | - | 0.034 | 2 | 0.067 |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | - |  | - | - |  | - | - |  | 2 | 0.067 |  | - | - |  | 2 | 0.067 |


| Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2021 Air Force |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Date: February 2020 |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3080F / 02 / 3 |  |  |  |  |  |  |  | P-1 Line Item Number / Title: <br> 823990 / Special Purpose Vehicles |  |  |  |  |  |  |  | Aggregated Items Title: Special Purpose Vehicles |  |  |  |  |
|  | $\begin{aligned} & \text { ID } \\ & \text { CD } \end{aligned}$ | mDAP/ MAIS Code | Prior Years |  |  | FY 2019 |  |  | FY 2020 |  |  | FY 2021 Base |  |  | FY 2021 OCO |  |  | FY 2021 Total |  |  |
| Item Number / Title [DODIC] |  |  | 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) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \\ \hline \end{gathered}$ | Total Cost <br> (\$ M) | Unit Cost (\$ M) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \\ \hline \end{gathered}$ | Total Cost <br> (\$ M) | Unit Cost (\$ M) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \\ \hline \end{gathered}$ | Total Cost <br> (\$ M) | Unit Cost (\$ M) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \\ \hline \end{gathered}$ | Total Cost <br> (\$ M) |
| TRK MAINT <br> EXT CAB 4X4 <br> (2320-01-513-8386) | A |  | - | - | - | - | - | - | - | - | . | 0.053 | 3 | 0.159 | - | - | - | 0.053 | 3 | 0.159 |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | - |  | - | - |  | - | - |  | 3 | 0.159 |  | - | - |  | 3 | 0.159 |
| TRK TANK FUEL R-11 HMS (2320-01-626-1177YW) | A |  | - | - | - | - | - | - | - | - | - | 0.237 | 25 | 5.927 | - | - | - | 0.237 | 25 | 5.927 |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | - |  | - | - |  | - | - |  | 25 | 5.927 |  | - | - |  | 25 | 5.927 |
| $\begin{aligned} & \text { 4000GAL DEICER } \\ & \text { (1730-01-605-7637YW) } \end{aligned}$ | A |  | - | - | 0.000 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| TRAC ACFT TWG MB-4 (1740-00-580-7990YW) | A |  | - | - | - | 0.119 | 18 | 2.136 | 0.105 | 26 | 2.732 | 0.110 | 8 | 0.880 | 0.110 | 26 | 2.860 | 0.110 | 34 | 3.740 |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | - |  | 18 | 2.136 |  | 24 | 2.522 |  | 8 | 0.880 |  | 26 | 2.860 |  | 34 | 3.740 |
| AFR |  |  |  | - | - |  | - | - |  | 2 | 0.210 |  | - | - |  | - | - |  | - | - |
| TOW TRACTOR, MB-2 <br> (1740-00-143-8464YW) | ${ }^{\text {A }}$ |  | - | - | - | 0.158 | 28 | 4.428 | 0.139 | 8 | 1.112 | 0.139 | 10 | 1.390 | 0.139 | 9 | 1.251 | 0.139 | 19 | 2.641 |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | - |  | 28 | 4.428 |  | 4 | 0.556 |  | 9 | 1.251 |  | 9 | 1.251 |  | 18 | 2.502 |
| AFNG |  |  |  | - | - |  | - | - |  | 2 | 0.278 |  | 1 | 0.139 |  | - | - |  | 1 | 0.139 |
| AFR |  |  |  | - | - |  | - | - |  | 2 | 0.278 |  | - | - |  | - | - |  | - | - |
| FLIGHT LINE TOW TRACTOR, 4X2 (1740-01-068-8945YW) | A |  | - | - | - | 0.062 | 47 | 2.921 | 0.062 | 78 | 4.868 | 0.069 | 44 | 3.021 | 0.069 | 54 | 3.728 | 0.069 | 98 | 6.749 |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | - |  | 45 | 2.797 |  | 73 | 4.557 |  | 13 | 0.897 |  | 54 | 3.728 |  | 67 | 4.625 |
| AFNG |  |  |  | - | - |  | 1 | 0.062 |  | 2 | 0.124 |  | 24 | 1.644 |  | - | - |  | 24 | 1.644 |
| AFR |  |  |  | - | - |  | 1 | 0.062 |  | 3 | 0.187 |  | 7 | 0.480 |  | - | - |  | 7 | 0.480 |
| TRUCK, malntenance <br> 3/4T 4X4 <br> (2320-00-541-1714) | A |  | - | - | - | 0.035 | 4 | 0.139 | 0.035 | 18 | 0.627 | 0.038 | 14 | 0.526 | - | - | - | 0.038 | 14 | 0.526 |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | - |  | 3 | 0.104 |  | 8 | 0.279 |  | 9 | 0.338 |  | - | - |  | 9 | 0.338 |
| AFNG |  |  |  | - | - |  | - | - |  | 10 | 0.348 |  | 3 | 0.113 |  | - | - |  | 3 | 0.113 |
| AFR |  |  |  | - | - |  | 1 | 0.035 |  | - | $\checkmark$ |  | 2 | 0.075 |  | - | - |  | 2 | 0.075 |
| TRUCK, TELEPHONE MAINT | A |  | - | - | - | 0.036 | 8 | 0.289 | 0.030 | 16 | 0.485 | 0.030 | 16 | 0.484 | - | - | - | 0.030 | 16 | 0.484 |

## UNCLASSIFIED

| Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2021 Air Force |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Date: February 2020 |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3080F / 02 / 3 |  |  |  |  |  |  |  | P-1 Line Item Number / Title: <br> 823990 / Special Purpose Vehicles |  |  |  |  |  |  |  | Aggregated Items Title: Special Purpose Vehicles |  |  |  |  |
|  | $\begin{aligned} & \text { ID } \\ & \text { CD } \end{aligned}$ | mDAP/ MAIS <br> Code | Prior Years |  |  | FY 2019 |  |  | FY 2020 |  |  | FY 2021 Base |  |  | FY 2021 OCO |  |  | FY 2021 Total |  |  |
| Item Number / <br> Title [DODIC] |  |  | 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 (\$ 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) |
| $\begin{aligned} & \hline \text { STD UTIL 4x2 } \\ & (2320-00-801-9193) \end{aligned}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | - |  | 5 | 0.181 |  | 7 | 0.212 |  | 14 | 0.424 |  | - | - |  | 14 | 0.424 |
| AFNG |  |  |  | - | - |  | 1 | 0.036 |  | 5 | 0.152 |  | 1 | 0.030 |  | - | - |  | 1 | 0.030 |
| AFR |  |  |  | - | - |  | 2 | 0.072 |  | 4 | 0.121 |  | 1 | 0.030 |  | - | - |  | 1 | 0.030 |
| SEMI-TRL 8000 GAL FUEL TANK (2330-00-844-1684) | A |  | - | - | - | - | - | - | - | - | - | 0.060 | 1 | 0.060 | - | - | - | 0.060 | 1 | 0.060 |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | - |  | - | - |  | - | - |  | 1 | 0.060 |  | - | - |  | 1 | 0.060 |
| $\begin{aligned} & \text { TRK TANK } \\ & 1200 \mathrm{G} 4 \times 2 \\ & (2320-00-177-6777) \end{aligned}$ | A |  | - | - | - | 0.201 | 10 | 2.012 | 0.130 | 4 | 0.518 | 0.138 | 4 | 0.552 | 0.138 | 8 | 1.106 | 0.138 | 12 | 1.658 |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | - |  | 10 | 2.012 |  | 4 | 0.518 |  | 4 | 0.552 |  | 8 | 1.106 |  | 12 | 1.658 |
| TRK TANK 1200G 4X4 (2320-00-177-6778) | A |  | - | - | - | 0.147 | 5 | 0.735 | 0.152 | 5 | 0.760 | 0.159 | 7 | 1.110 | 0.159 | 13 | 2.069 | 0.159 | 20 | 3.179 |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | - |  | 5 | 0.735 |  | 3 | 0.456 |  | 3 | 0.476 |  | 13 | 2.069 |  | 16 | 2.545 |
| AFNG |  |  |  | - | - |  | - | - |  | 2 | 0.304 |  | 4 | 0.634 |  | - | - |  | 4 | 0.634 |
| TRK HI-LIFT 9TON (2320-00-540-3991) | A |  | - | - | - | 0.240 | 1 | 0.240 | - | - | - | 0.288 | 3 | 0.865 | - | - | - | 0.288 | 3 | 0.865 |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | - |  | - | - |  | - | - |  | 3 | 0.865 |  | - | - |  | 3 | 0.865 |
| AFR |  |  |  | - | - |  | 1 | 0.240 |  | - | - |  | - | - |  | - | - |  | - | - |
| TRK MAINT TEL 4DR (2320-00-451-2184) | A |  | - | - | - | 0.040 | 4 | 0.160 | 0.034 | 12 | 0.412 | 0.037 | 3 | 0.112 | - | - | - | 0.037 | 3 | 0.112 |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | - |  | 4 | 0.160 |  | 7 | 0.240 |  | 3 | 0.112 |  | - | - |  | 3 | 0.112 |
| AFNG |  |  |  | - | - |  | - | - |  | 5 | 0.172 |  | - | - |  | - | - |  | - | - |
| LARGE CAPACITY REFUELER VEHICLE (LCRV) (2320-01-592-4114YW) | ${ }^{\text {A }}$ |  | - | - | - | 1.245 | 1 | 1.245 | 0.675 | 1 | 0.675 | - | - | - | - | - | - | - | - | - |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | - |  | 1 | 1.245 |  | 1 | 0.675 |  | - | - |  | - | - |  | - | - |
| TRK TNK FUEL 6000GAL R-11 (2320-00-433-5695) | A |  | - | - | - | 0.209 | 48 | 10.050 | 0.212 | 93 | 19.747 | 0.245 | 36 | 8.820 | 0.245 | 64 | 15.682 | 0.245 | 100 | 24.502 |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

## UNCLASSIFIED

| Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2021 Air Force |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Date: February 2020 |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3080F / 02 / 3 |  |  |  |  |  |  |  | P-1 Line Item Number / Title: <br> 823990 / Special Purpose Vehicles |  |  |  |  |  |  |  | Aggregated Items Title: Special Purpose Vehicles |  |  |  |  |
|  | $\begin{aligned} & \text { ID } \\ & \text { CD } \end{aligned}$ | mDAP/ MAIS Code | Prior Years |  |  | FY 2019 |  |  | FY 2020 |  |  | FY 2021 Base |  |  | FY 2021 OCO |  |  | FY 2021 Total |  |  |
| Item Number / Title [DODIC] |  |  | 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) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \\ \hline \end{gathered}$ | Total Cost <br> (\$ M) | Unit Cost (\$ M) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \\ \hline \end{gathered}$ | Total Cost <br> (\$ M) | Unit Cost (\$ M) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \\ \hline \end{gathered}$ | Total Cost <br> (\$ M) |
| AF |  |  |  | - | - |  | 45 | 9.423 |  | 78 | 16.562 |  | 22 | 5.390 |  | 64 | 15.682 |  | 86 | 21.072 |
| AFNG |  |  |  | - | - |  | - | - |  | 10 | 2.123 |  | 10 | 2.450 |  | - | - |  | 10 | 2.450 |
| AFR |  |  |  | - | - |  | 3 | 0.627 |  | 5 | 1.062 |  | 4 | 0.980 |  | - | - |  | 4 | 0.980 |
| TRUCK, EXTENDED REACH DEICER (1730-01-495-5449YW) | A |  | - | - | - | 0.676 | 19 | 12.842 | 0.676 | 16 | 10.812 | 0.676 | 2 | 1.352 | 0.676 | 3 | 2.029 | 0.676 | 5 | 3.381 |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | - |  | 19 | 12.842 |  | 16 | 10.812 |  | 2 | 1.352 |  | 3 | 2.029 |  | 5 | 3.381 |
| TRK MNT DIGGER DERRICK (2320-01-397-7528) | A |  | - | - | - | - | - | - | 0.305 | 1 | 0.305 | 0.321 | 1 | 0.321 | 0.321 | 6 | 1.926 | 0.321 | 7 | 2.247 |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | - |  | - | - |  | 1 | 0.305 |  | 1 | 0.321 |  | 6 | 1.926 |  | 7 | 2.247 |
| CONTRACT MAINTENANCE TRUCK (2320-01-590-4213YW) | ${ }^{\text {A }}$ |  | - | - | - | - | - | - | - | - | - | 0.144 | 3 | 0.433 | 0.144 | 15 | 2.162 | 0.144 | 18 | 2.595 |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | - |  | - | - |  | - | - |  | 3 | 0.433 |  | 15 | 2.162 |  | 18 | 2.595 |
| $\begin{aligned} & \text { 2000GAL DEICER } \\ & \text { (1730-01-605-7636YW) } \end{aligned}$ | A |  | - | - | 0.000 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| PMA OTHER GOVERNMENT costs | A |  | - | - | - | - | - | 0.021 | - | - | 0.010 | - | - | 0.017 | - | - | - | - | - | 0.017 |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | - |  | - | 0.021 |  | - | 0.010 |  | - | 0.017 |  | - | - |  | - | 0.017 |
| PMA CONTRACTOR SERVICES | A |  | - | - | - | - | - | - | - | - | 0.500 | - | - | - | - | - | - | - | - | - |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | - |  | - | $\checkmark$ |  | - | 0.500 |  | - | - |  | - | - |  | - | - |
| $\begin{aligned} & \hline \text { STAIRCASE TRK } \\ & (1730-01-601-8086 \mathrm{YW}) \\ & \hline \end{aligned}$ | A |  | - | - | - | 0.149 | 18 | 2.684 | 0.156 | 5 | 0.780 | 0.161 | 5 | 0.806 | 0.161 | 12 | 1.932 | 0.161 | 17 | 2.738 |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | - |  | 18 | 2.684 |  | 4 | 0.624 |  | 5 | 0.806 |  | 12 | 1.932 |  | 17 | 2.738 |
| AFNG |  |  |  | - | - |  | - | - |  | 1 | 0.156 |  | - | - |  | - | - |  | - | - |
| LAVATORY SERVICE TRK (1730-00-981-7605YW) | A |  | - | - | - | 0.137 | 22 | 3.003 | 0.157 | 5 | 0.783 | 0.224 | 3 | 0.673 | 0.224 | 8 | 1.792 | 0.224 | 11 | 2.465 |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | - |  | 22 | 3.003 |  | 3 | 0.470 |  | 3 | 0.673 |  | 8 | 1.792 |  | 11 | 2.465 |
| AFNG |  |  |  | - | - |  | - | - |  | 2 | 0.313 |  | - | - |  | - | - |  | - | - |


|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Date: February 2020 <br> Aggregated Items Title: <br> Special Purpose Vehicles |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3080F / 02 / 3 |  |  |  |  |  |  |  | P-1 Line Item Number / Title: 823990 / Special Purpose Vehicles |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  | Prior Years |  |  | FY 2019 |  |  | FY 2020 |  |  | FY 2021 Base |  |  | FY 2021 OCO |  |  | FY 2021 Total |  |  |
| Item Number / Title [DODIC] | $\begin{array}{\|l\|} \hline \text { ID } \\ \mathrm{CD} \end{array}$ | $\begin{array}{\|l\|l\|} \hline \text { MDAPI } \\ \text { MAIS } \\ \text { Code } \end{array}$ | Unit Cost (\$ M) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \\ \hline \end{gathered}$ | Total Cost (\$ M) | Unit Cost (\$ M) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | $\begin{aligned} & \text { Total } \\ & \text { Cost } \end{aligned}$ (\$ M) | Unit Cost <br> (\$M) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | $\begin{aligned} & \text { Total } \\ & \text { Cost } \end{aligned}$ (\$ M) | Unit Cost (\$ M) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | Total Cost (\$ M) | 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 <br> (\$ M) |
| TRAC ACFT TOW (1740-01-367-9485YW) | A |  | - | . | . | 0.346 | 19 | 9.6 .565 | 0.354 | 16 | 5.666 | - | - | . | 0.445 | 19 | 8.455 | 0.445 | 19 | 8.455 |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | - |  | 18 | 8 8 6.219 |  | 14 | 4.958 |  | - | - |  | 19 | 8.455 |  | 19 | 8.455 |
| AFNG |  |  |  |  | - |  | - | - |  | 2 | 0.708 |  | - | - |  | - | - |  | - |  |
| AFR |  |  |  |  | - |  |  | 1.0 .346 |  | - | - |  | - | - |  | - | - |  | - |  |
| TRK REFRGR 4X2 (2320-00-770-4467) | A |  | - | - | - | - | - | - | 0.125 | 8 | 1.000 | 0.107 | 2 | 0.214 | - | - | - | 0.107 | 2 | 0.214 |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | - |  | - | - |  | 8 | 1.000 |  | 2 | 0.214 |  | - | - |  | 2 | 0.214 |
| TRK HYDRANT FUEL (2320-01-125-2481) | A |  | - | - | - | 0.410 | 12 | 2.4 .919 | 0.302 | 3 | 0.906 | 0.302 | 10 | 3.023 | - | - | - | 0.302 | 10 | 3.023 |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | - |  | 11 | 1 1 4.509 |  | 3 | 0.906 |  | 9 | 2.721 |  | - | - |  | 9 | 2.721 |
| AFR |  |  |  | - | - |  |  | 1.0 .410 |  | - | - |  | 1 | 0.302 |  | - | - |  | 1 | 0.302 |
| STLR TK CG 38 CYL \& UNDER (2330-00-995-5613) | A |  | - | - | 0.000 | - | - | - | - | . | . | - | . | . | . | . | - | - | . | . |
| FFTT, 4X4 (1740-01-452-4117YW) | A |  | - | - | - | 0.063 | 41 | 1.2 .571 | 0.065 | 16 | 1.039 | 0.068 | 10 | 0.678 | - | - | - | 0.068 | 10 | 0.678 |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | - |  | 41 |  <br> 1.571 |  | 15 | 0.974 |  | 7 | 0.475 |  | - | - |  | 7 | 0.475 |
| AfNG |  |  |  | - | - |  | - | - |  | 1 | 0.065 |  | 3 | 0.203 |  | - | - |  | 3 | 0.203 |
| DEICER TRK MOUNTED (1730-00-555-6205YW |  |  | - | - | - | 0.461 | 45 | $5 \quad 20.723$ | 0.461 | 14 | 6.448 | - | . | . | 0.425 | 10 | 4.247 | 0.425 | 10 | 4.247 |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | - |  | 45 | 5 20.723 |  | 13 | 5.987 |  | - | - |  | 10 | 4.247 |  | 10 | 4.247 |
| AFNG |  |  |  | - | - |  | - | - |  | 1 | 0.461 |  | - | - |  | - | - |  | - | - |
| Subtotal: Uncategorized |  |  | - | - | - | - | - | 78.383 | - | - | 67.401 | - | $\cdot$ | 43.157 | - | - | 51.254 | - | $\cdot$ | 94.411 |
| Total |  |  | - | - | - | - | - | 78.383 | - | - | 67.401 | - | - | 43.157 | - | - | 51.254 | - | - | 94.411 |
| Note: Subtotals or Totals in this Exhibit P-40a may not be exact or sum exactly, due to rounding. |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Remarks: <br> Based on AF Mission changes and/or AF Mission priorities, NSNs and/or quantities may change during year of execution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| UNIT COSTS FOR FY21 ARE SUBJECT TO CHANGE. |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| PMA OTHER CONTRACTOR SERVICES: This funding includes provisions for government contract oversight, technical expertise, and program office support for contracts on all aircraft tow vehicles, refuelers, staircase trucks, and deicers. |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

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Exhibit P-40, Budget Line Item Justification: PB 2021 Air Force
Date: February 2020

## P-1 Line Item Number / Title:

824010 / Fire Fighting/Crash Rescue Vehicles

## Appropriation / Budget Activity / Budget Sub Activity:

 Fighting Equipment| ID Code (A=Service Ready, B=Not Service Ready): A | Program Elements for Code B Items: N/A | Other Related Program Elements: 0202834F, 0901279F |
| :--- | :--- | :--- |

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

| Resource Summary | Prior <br> Years | FY 2019 | FY 2020 | $\begin{gathered} \text { FY } 2021 \\ \text { Base } \end{gathered}$ | $\begin{gathered} \text { FY } 2021 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \text { FY } 2021 \\ \text { Total } \end{gathered}$ | FY 2022 | FY 2023 | FY 2024 | FY 2025 | To Complete | Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Procurement Quantity (Units in Each) | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Cost (\$ in Millions) | - | 33.064 | 45.256 | 8.621 | 24.903 | 33.524 | 28.991 | 29.646 | 69.379 | 64.078 | - | 303.938 |
| Less PY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Net Procurement (P-1) (\$ in Millions) | - | 33.064 | 45.256 | 8.621 | 24.903 | 33.524 | 28.991 | 29.646 | 69.379 | 64.078 | - | 303.938 |
| Plus CY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Total Obligation Authority (\$ in Millions) | - | 33.064 | 45.256 | 8.621 | 24.903 | 33.524 | 28.991 | 29.646 | 69.379 | 64.078 | - | 303.938 |
| (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 Dollars) | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Unit Cost (\$ in Dollars) | - | - | - | - | - | - | - | - | - | - | - | - |

## Description:

FY19 funding totals include $\$ 9.736 \mathrm{M}$ appropriated for Overseas Contingency Operations.
FY20 funding totals include $\$ 16.652 \mathrm{M}$ appropriated for Overseas Contingency Operations.
This P-1 line procures a variety of critical fire fighting and crash rescue vehicles. Vehicles typically include, but are not limited to, the following:


 required. This vehicle provides aircrew, passenger, weapons, and airframe fire protection at a crash site.
 involving high rise buildings and warehouse facilities.

 $\mathrm{P}-24$, but is used in urban areas.
-- The P-23 Crash Truck is a larger version of the P-19 ARFF truck and has a larger fire suppression capacity. It is primarily assigned at transport, bomber, depot, and cargo aircraft bases.
-- The P-26 Water Tanker Truck is a 4000-gallon resupply truck used to support the ARFF vehicles, fight wild land fires, and provide mutual assistance to communities.
 Compressed Air Foam System (CAFS) and has a 500 gallon water tank. The truck is intended to combat wild land and brush type fires.

## UNCLASSIFIED

Page 1 of 5

P-1 Line \#8
Volume 1-45
Appropriation / Budget Activity / Budget Sub Activity:
3080F: Other Procurement, Air Force / BA 02: Vehicular Equipment / BSA 4: Fire
Fighting Equipment

## P-1 Line Item Number / Title:

824010 / Fire Fighting/Crash Rescue Vehicles

| ID Code (A=Service Ready, B=Not Service Ready): A | Program Elements for Code B Items: N/A | Other Related Program Elements: 0202834F, 0901279F |
| :---: | :---: | :---: |
| Line Item MDAP/MAIS Code: N/A |  |  |

 equipment access and improved storage compartments. This truck is assigned to the larger industrial bases.
 also provides an incident command workstation area for the purpose of research, command, control, and communications during containment/cleanup operations.
 and warehouse facilities.

 water tank and a 50 gallon foam tank along with a bumper turret and 200 feet of hand line all mounted on an F-550 chassis.



 scene.
 and Air Force safety regulations.

This requirement (or modification) supports performance of a full financial audit as required by title 10 U.S.C. Chapter 9A, Sec 240-D.
 defense missions, domestic emergency responses, and providing military support to civil authorities.

Funding for this exhibit contained in PE 0202834F, 0702831, 0901279F.

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


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

## Justification:

FY21 procurement dollars in the amount of $\$ 8.621 \mathrm{M}$ will procure, but not be limited to, 16 vehicles in support of installation and unit mission requirements for Air Force personnel.
FY21 OCO dollars in the amount of $\$ 24.903 \mathrm{M}$ will procure, but not be limited to, 40 vehicles in support of installation and unit mission requirements for Air Force personnel.

 of life projections based on depreciation and service life of the vehicle, cumulative sustainment cost and mission priority.
 European Deterrence Initiative (EDI), Regional Base Cluster Prepositioning Kits (RBCP) for PACOM, and other initiatives as they arise.

As the model applies the life expectancy/sustainment cost/mission priority logic in generating requirements, there can be gaps in individual vehicle type (NSN) requirements from year-to-year.

 fluctuations in contract pricing.

UNCLASSIFIED

| Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2021 Air Force |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Date: February 2020 |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3080F / 02 / 4 |  |  |  |  |  |  |  | P-1 Line Item Number / Title: <br> 824010 / Fire Fighting/Crash Rescue Vehicles |  |  |  |  |  |  |  | Aggregated Items Title: <br> Fire Fighting/Crash Rescue Vehicles |  |  |  |  |
|  | ID | mDAP/ MAIS Code | Prior Years |  |  | FY 2019 |  |  | FY 2020 |  |  | FY 2021 Base |  |  | FY 2021 OCO |  |  | FY 2021 Total |  |  |
| Item Number / <br> Title [DODIC] |  |  | Unit Cost (\$) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost (\$ M) | Unit Cost (\$) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost (\$ M) | Unit Cost (\$) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | Total Cost <br> (\$ M) | Unit Cost (\$) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | Total Cost <br> (\$ M) | Unit Cost (\$) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \\ \hline \end{gathered}$ | Total Cost <br> (\$ M) | Unit Cost (\$) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | Total Cost (\$ M) |
| Uncategorized |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| $\begin{aligned} & \text { TRUCK, AERIAL P-21 } \\ & 4210-01-057-0696 \end{aligned}$ | A |  | - | - | - | - | - | - | - | - | - | 854,000.00 | 1 | 0.854 | - | - | - | 854,000.00 | 1 | 0.854 |
| TRK FFGT 1000G ARFF P-19C AIR TRANSPORTABLE (4210-01-671-4966) | A |  | - | - | - | - | - | - | 593,000.00 | 10 | 5.930 | - | - | - | - | - | - | - | - | - |
| $\begin{aligned} & \text { TRUCK, PUMPER } \\ & 4 \times 2 \text { P-22 } \\ & 4210-00-224-4564 \end{aligned}$ | A |  | - | - | - | 452,000.00 | 6 | 2.712 | 454,000.00 | 9 | 4.086 | 503,000.00 | 1 | 0.503 | - | - | - | 503,000.00 | 1 | 0.503 |
| $\begin{aligned} & \text { TRUCK, PUMPER } \\ & \text { 4X4 P-24 } \\ & 4210-00-233-1538 \end{aligned}$ | A |  | - | - | - | 504,000.00 | 7 | 3.528 | 462,000.00 | 11 | 5.082 | 463,000.00 | 2 | 0.926 | 463,000.00 | 4 | 1.852 | 463,000.00 | 6 | 2.778 |
| TRK FIRE CRS STRIKER 4210-00-702-6801 | A |  | - | - | 0.000 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| TRUCK, WATER TANKER P-26 4210-01-356-4907 | A |  | - | - | - | 318,000.00 | 9 | 2.862 | 323,000.00 | 14 | 4.522 | 334,000.00 | 1 | 0.334 | 334,000.00 | 4 | 1.336 | 334,000.00 | 5 | 1.670 |
| VEHICLE, MEDIUM RESCUE P-30 4210-01-452-5121 | A |  | - | - | - | 255,000.00 | 12 | 3.060 | 293,000.00 | 7 | 2.051 | 293,000.00 | 2 | 0.586 | 293,000.00 | 1 | 0.293 | 293,000.00 | 3 | 0.879 |
| TRUCK, QUINT P-33 4210-01-500-1083 | A |  | - | - | 0.000 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| TRUCK, <br> WILDLAND P-29 <br> 4210-01-483-1025 | A |  | - | - | - | 419,000.00 | 2 | 0.838 | 419,000.00 | 5 | 2.095 | 318,000.00 | 2 | 0.636 | 318,000.00 | 2 | 0.636 | 318,000.00 | 4 | 1.272 |
| TRUCK, QUICK ATTACK P-34 4210-01-553-4534 | A |  | - | - | - | 344,000.00 | 3 | 1.032 | 353,000.00 | 1 | 0.353 | - | - | - | - | - | - | - | - | - |
| TRUCK, HAZMAT FIRE FIGHTING P31 4210-01-396-5219 | A |  | - | - | - | 493,000.00 | 4 | 1.972 | 435,000.00 | 5 | 2.175 | 527,000.00 | 1 | 0.527 | - | - | - | 527,000.00 | 1 | 0.527 |
| $\begin{aligned} & \text { TRUCK, ARFF } \\ & \text { P19UHP } \\ & 4210-01-608-7285 \end{aligned}$ | A |  | - | - | - | 649,000.00 | 12 | 7.788 | 653,000.00 | 8 | 5.224 | 661,000.00 | 3 | 1.983 | - | - | - | 661,000.00 | 3 | 1.983 |
| $\begin{aligned} & \text { TRK FIRE P23 } \\ & \text { 4210-01-625-9765 } \end{aligned}$ | A |  | - | - | - | - | - | - | - | - | - | 829,000.00 | 1 | 0.829 | 829,000.00 | 2 | 1.658 | 829,000.00 | 3 | 2.487 |
| $\begin{aligned} & \text { TRUCK, ARFF } \\ & \text { P23UHP } \\ & 4210-01-608-7287 \end{aligned}$ | A |  | - | - | - | 705,000.00 | 13 | 9.165 | 686,000.00 | 20 | 13.720 | 707,000.00 | 2 | 1.414 | 707,000.00 | 27 | 19.089 | 707,000.00 | 29 | 20.503 |
| PMA OTHER GOVERNMENT costs | A |  | - | - | - | - | - | 0.107 | - | - | 0.018 | - | - | 0.029 | - | - | 0.039 | - | - | 0.068 |
| Subtotal: Uncategorized |  |  | - | - | - | - | - | 33.064 | - | - | 45.256 | - | - | 8.621 | - | - | 24.903 | - | - | 33.524 |
| Total |  |  | - | - | - | - | - | 33.064 | - | - | 45.256 | - | - | 8.621 | - | - | 24.903 | - | - | 33.524 |

## UNCLASSIFIED

| Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2021 Air Force | Date: February 2020 |  |
| :--- | :--- | :--- |
| Appropriation / Budget Activity / Budget Sub Activity: | P-1 Line Item Number / Title: <br> $8024010 ~ / ~ F i r e ~ F i g h t i n g / C r a s h ~ R e s c u e ~ V e h i c l e s ~$ | Aggregated Items Title: <br> 3080F / 02 / 4 |
| Note: Subtotals or Totals in this Exhibit P-40a may not be exact or sum exactly, due to rounding. <br> Remarks: <br> Based on AF Mission changes and/or AF Mission priorities, NSNs and/or quantities may change during year of execution. <br> UNIT COSTS FOR FY21 ARE SUBJECT TO CHANGE. <br> PMA OTHER GOVERNMENT COSTS: This line supports the operation of the program office in its management and oversight role via travel, procurement of supplies and studies. |  |  |

PMA OTHER GOVERNMENT COSTS: This line supports the operation of the program office in its management and oversight role via travel, procurement of supplies and studies

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Exhibit P-40, Budget Line Item Justification: PB 2021 Air Force
Date: February 2020

## Appropriation / Budget Activity / Budget Sub Activity:

3080F: Other Procurement, Air Force / BA 02: Vehicular Equipment / BSA 5: Materials Handling Equipment

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

| Resource Summary | Prior <br> Years | FY 2019 | FY 2020 | $\text { FY } 2021$ <br> Base | $\begin{gathered} \text { FY } 2021 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \text { FY } 2021 \\ \text { Total } \end{gathered}$ | FY 2022 | FY 2023 | FY 2024 | FY 2025 | To Complete | Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Procurement Quantity (Units in Each) | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Cost (\$ in Millions) | - | 36.217 | 25.068 | 12.897 | 14.167 | 27.064 | 35.003 | 37.592 | 31.062 | 43.862 | - | 235.868 |
| Less PY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Net Procurement (P-1) (\$ in Millions) | - | 36.217 | 25.068 | 12.897 | 14.167 | 27.064 | 35.003 | 37.592 | 31.062 | 43.862 | - | 235.868 |
| Plus CY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Total Obligation Authority (\$ in Millions) | - | 36.217 | 25.068 | 12.897 | 14.167 | 27.064 | 35.003 | 37.592 | 31.062 | 43.862 | - | 235.868 |
| (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:

FY19 funding totals include $\$ 24.680 \mathrm{M}$ appropriated for Overseas Contingency Operations.
FY20 funding totals include $\$ 2.944 \mathrm{M}$ appropriated for Overseas Contingency Operations.
 Warehouse Tugs and Warehouse Cranes critical to Depot and Base Supply Operations.

This requirement (or modification) supports performance of a full financial audit as required by title 10 U.S.C. Chapter 9A, Sec 240-D.
 defense missions, domestic emergency responses, and providing military support to civil authorities.

Funding for these exhibits contained in PEs: 0202834F, 0207142F, 0207597F, 0208028F, 0507831F, 0702831F.

| Secondary Distribution |  | FY 2019 | FY 2020 | $\begin{gathered} \text { FY } 2021 \\ \text { Base } \end{gathered}$ | $\begin{aligned} & \text { FY } 2021 \\ & \text { OCO } \end{aligned}$ | $\begin{gathered} \text { FY } 2021 \\ \text { Total } \end{gathered}$ | FY 2022 | FY 2023 | FY 2024 | FY 2025 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| AF | Quantity | 279 | 232 | 74 | 35 | 109 | - | - | - | - |
|  | Total Obligation Authority | 33.824 | 22.662 | 11.161 | 14.167 | 25.328 | - | - | - | - |
| AFNG | Quantity | 0 | 0 | 0 | 0 | 0 | - | - | - | - |
|  | Total Obligation Authority | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | - | - | - | - |
| AFR | Quantity | 25 | 24 | 27 | 0 | 27 | - | - | - | - |
|  | Total Obligation Authority | 2.393 | 2.406 | 1.736 | 0.000 | 1.736 | - | - | - | - |
| Total: | Quantity | 304 | 256 | 101 | 35 | 136 | $\bullet$ | - | - | - |

LI 825990 - Materials Handling Vehicles Air Force

UNCLASSIFIED
Page 1 of 7

P-1 Line \#9
Volume 1-51

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| Exhibit P-40, Budget Line Item Justification: PB 2021 Air Force |  |  |  |  |  |  |  | Date: February 2020 |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: <br> 3080F: Other Procurement, Air Force / BA 02: Vehicular Equipment / BSA 5: <br> Materials Handling Equipment |  |  |  |  | P-1 Line Item Number / Title: 825990 / Materials Handling Vehicles |  |  |  |  |  |
| ID Code (A=Service Ready | ot Service Ready): A | Program Elements for Code B Items: N/A |  |  |  | Other Related Program Elements: N/A |  |  |  |  |
| Line Item MDAP/MAIS Code: N/A |  |  |  |  |  |  |  |  |  |  |
| Secondary Distribution |  | FY 2019 | FY 2020 | $\begin{aligned} & \text { FY } 2021 \\ & \text { Base } \end{aligned}$ | $\begin{gathered} \text { FY } 2021 \\ \text { OCO } \end{gathered}$ | $\begin{aligned} & \text { FY } 2021 \\ & \text { Total } \end{aligned}$ | FY 2022 | FY 2023 | FY 2024 | FY 2025 |
| Secondary Distribution | Total Obligation Authority | 36.217 | 25.068 | 12.897 | 14.167 | 27.064 | - | - | - | - |

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

## Appropriation / Budget Activity / Budget Sub Activity: <br> 3080F: Other Procurement, Air Force / BA 02: Vehicular Equipment / BSA 5:

 Materials Handling 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 |  |  |  |  |  |  |  |  |  |  |
| Exhibits Schedule |  |  |  |  | Prior Years | FY 2019 | FY 2020 | FY 2021 Base | FY 2021 OCO | FY 2021 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 | Materials Handling Vehicles |  |  |  | - 1- | - /36.217 | - 125.068 | - / 12.897 | - / 14.167 | - 127.064 |
| P-40 | Total Gross/Weapon System Cost |  |  |  | - 1 - | - 136.217 | - 125.068 | - / 12.897 | - /14.167 | - 127.064 |


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

## Justification:

FY21 procurement dollars in the amount of $\$ 12.897 \mathrm{M}$ will procure, but not be limited to, 101 vehicles in support of installation and unit mission requirements for Air Force personnel.
FY21 OCO dollars in the amount of $\$ 14.167 \mathrm{M}$ will procure, but not be limited to, 35 vehicles in support of installation and unit mission requirements for Air Force personnel.

 of life projections based on depreciation and service life of the vehicle, cumulative sustainment cost and mission priority.
 European Deterrence Initiative (EDI), Regional Base Cluster Prepositioning Kits (RBCP) for PACOM, and other initiatives as they arise.

As the model applies the life expectancy/sustainment cost/mission priority logic in generating requirements, there can be gaps in individual vehicle type (NSN) requirements from year-to-year.

 fluctuations in contract pricing.

| Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2021 Air Force |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Date: February 2020 |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3080F / 02 / 5 |  |  |  |  |  |  |  | P-1 Line Item Number / Title: <br> 825990 / Materials Handling Vehicles |  |  |  |  |  |  |  | Aggregated Items Title: Materials Handling Vehicles |  |  |  |  |
|  | $\begin{aligned} & \text { ID } \\ & \text { CD } \end{aligned}$ | mDAP/ mals <br> Code | Prior Years |  |  | FY 2019 |  |  | FY 2020 |  |  | FY 2021 Base |  |  | FY 2021 OCO |  |  | FY 2021 Total |  |  |
| Item Number / <br> Title [DODIC] |  |  | 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) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | 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 (\$ M) | Unit Cost (\$ M) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost (\$ M) |
| Uncategorized |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| FORKLIFT, 4K ELEC NARI 001813113 | A |  | - | - | - | - | - | - | - | - | - | 0.034 | 1 | 0.034 | - | - | - | 0.034 | 1 | 0.034 |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | - |  | - | - |  | - | - |  | 1 | 0.034 |  | - | - |  | 1 | 0.034 |
| Halvorsen 25K Loader - ECAOS/EDI only (3930-01-466-3515CT) | A |  | - | - | - | 0.899 | 6 | 5.394 | - | - | - | - | - | - | 0.875 | 8 | 7.000 | 0.875 | 8 | 7.000 |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | - |  | 6 | 5.394 |  | - | - |  | - | - |  | 8 | 7.000 |  | 8 | 7.000 |
| TRK FL DED 4000\# PT (3930-01-188-3585) | A |  | - | - | - | - | - | - | 0.050 | 1 | 0.050 | - | - | - | - | - | - | - | - | - |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | - |  | - | - |  | 1 | 0.050 |  | - | - |  | - | - |  | - | - |
| FORKLIFT 4K ELECTRIC STANDARD 000539175 | A |  | - | - | - | 0.047 | 16 | 0.752 | 0.047 | 3 | 0.141 | 0.047 | 1 | 0.047 | - | - | - | 0.047 | 1 | 0.047 |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | - |  | 16 | 0.752 |  | 3 | 0.141 |  | 1 | 0.047 |  | - | - |  | 1 | 0.047 |
| FORKLIFT, <br> 2K ELECTRIC <br> STANDARD <br> 006782580 | A |  | - | - | - | 0.031 | 9 | 0.279 | 0.033 | 6 | 0.198 | 0.031 | 2 | 0.062 | - | - | - | 0.031 | 2 | 0.062 |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | - |  | 9 | 0.279 |  | 6 | 0.198 |  | 1 | 0.031 |  | - | - |  | 1 | 0.031 |
| AFR |  |  |  | - | - |  | - | - |  | - | - |  | 1 | 0.031 |  | - | - |  | 1 | 0.031 |
| FORKLIFT, 4K DED 010130338 | A |  | - | - | - | 0.046 | 25 | 1.150 | 0.046 | 28 | 1.288 | 0.046 | 12 | 0.547 | - | - | - | 0.046 | 12 | 0.547 |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | - |  | 21 | 0.966 |  | 22 | 1.012 |  | 7 | 0.319 |  | - | - |  | 7 | 0.319 |
| AFR |  |  |  | - | - |  | 4 | 0.184 |  | 6 | 0.276 |  | 5 | 0.228 |  | - | - |  | 5 | 0.228 |
| FORKLIFT, 4K COMMERCIAL 014330885 | A |  | - | - | - | 0.044 | 21 | 0.924 | 0.044 | 22 | 0.968 | 0.044 | 7 | 0.308 | - | - | - | 0.044 | 7 | 0.308 |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | - |  | 21 | 0.924 |  | 22 | 0.968 |  | 3 | 0.132 |  | - | - |  | 3 | 0.132 |
| AFR |  |  |  | - | - |  | - | - |  | - | - |  | 4 | 0.176 |  | - | - |  | 4 | 0.176 |
| FORKLIFT, 15K COMMERCIAL 010471597 | A |  | - | - | - | 0.100 | 1 | 0.100 | 0.084 | 5 | 0.420 | 0.086 | 2 | 0.172 | - | - | . | 0.086 | 2 | 0.172 |


| Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2021 Air Force |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Date: February 2020 |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3080F / 02 / 5 |  |  |  |  |  |  |  | P-1 Line Item Number / Title: <br> 825990 / Materials Handling Vehicles |  |  |  |  |  |  |  | Aggregated Items Title: <br> Materials Handling Vehicles |  |  |  |  |
|  | $\begin{aligned} & \mathrm{ID} \\ & \mathrm{CD} \end{aligned}$ |  | Prior Years |  |  | FY 2019 |  |  | FY 2020 |  |  | FY 2021 Base |  |  | FY 2021 OCO |  |  | FY 2021 Total |  |  |
| Item Number / <br> Title [DODIC] |  | 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 (\$ 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) |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | - |  | - | - |  | 5 | 0.420 |  | 2 | 0.172 |  | - | - |  | 2 | 0.172 |
| AFR |  |  |  | - | - |  | 1 | 0.100 |  | - | - |  | - | - |  | - | - |  | - | - |
| $\begin{aligned} & \text { FORKLIFT, 6K RT } \\ & 008792157 \end{aligned}$ | A |  | - | - | - | 0.125 | 4 | 0.500 | 0.125 | 1 | 0.125 | 0.125 | 1 | 0.125 | - | - | - | 0.125 | 1 | 0.125 |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | - |  | 4 | 0.500 |  | 1 | 0.125 |  | 1 | 0.125 |  | - | - |  | 1 | 0.125 |
| TRUCK MOUNTED CONVEYOR BELT 000195630 | A |  | - | - | - | 0.062 | 13 | 0.812 | 0.073 | 1 | 0.073 | 0.058 | 3 | 0.175 | - | - | - | 0.058 | 3 | 0.175 |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | - |  | 13 | 0.812 |  | 1 | 0.073 |  | 3 | 0.175 |  | - | - |  | 3 | 0.175 |
| TRUCK, FORKLIFT NARROW AISLE 6K 014214083 | A |  | - | - | - | 0.145 | 4 | 0.580 | 0.145 | 6 | 0.870 | - | - | - | - | - | - | - | - | - |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | - |  | 4 | 0.580 |  | 6 | 0.870 |  | - | - |  | - | - |  | - | - |
| $\begin{aligned} & \text { FORKLIFT, 6K DED } \\ & 010525219 \end{aligned}$ | A |  | - | - | - | 0.054 | 32 | 1.728 | 0.054 | 26 | 1.404 | 0.054 | 18 | 0.970 | 0.054 | 5 | 0.269 | 0.054 | 23 | 1.239 |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | - |  | 32 | 1.728 |  | 26 | 1.404 |  | 14 | 0.754 |  | 5 | 0.269 |  | 19 | 1.023 |
| AFR |  |  |  | - | - |  | - | - |  | - | - |  | 4 | 0.216 |  | - | - |  | 4 | 0.216 |
| 4K AT 23.5FT RT BOOM FL 012104756 | A |  | - | - | - | 0.124 | 5 | 0.620 | 0.252 | 11 | 2.772 | - | - | - | - | - | - | - | - | - |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | - |  | 5 | 0.620 |  | 11 | 2.772 |  | - | - |  | - | - |  | - | - |
| FORKLIFT, 6K COMMERCIAL 014330887 | A |  | - | - | - | 0.045 | 26 | 1.170 | 0.045 | 30 | 1.350 | 0.045 | 7 | 0.318 | - | - | - | 0.045 | 7 | 0.318 |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | - |  | 23 | 1.035 |  | 30 | 1.350 |  | 3 | 0.136 |  | - | - |  | 3 | 0.136 |
| AFR |  |  |  | - | - |  | 3 | 0.135 |  | - | - |  | 4 | 0.182 |  | - | - |  | 4 | 0.182 |
| FORKLIFT, FAT 10K <br> AT 004889695 | A |  | - | - | - | 0.211 | 33 | 6.963 | 0.204 | 32 | 6.542 | 0.211 | 5 | 1.055 | 0.211 | 9 | 1.899 | 0.211 | 14 | 2.954 |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | - |  | 28 | 5.908 |  | 25 | 5.212 |  | 3 | 0.633 |  | 9 | 1.899 |  | 12 | 2.532 |
| AFR |  |  |  | - | - |  | 5 | 1.055 |  | 7 | 1.330 |  | 2 | 0.422 |  | - | - |  | 2 | 0.422 |
| FORKLIFT, 10K STANDARD 008566897 | A |  | - | - | - | 0.090 | 46 | 4.140 | 0.092 | 31 | 2.852 | 0.092 | 12 | 1.104 | - | - | - | 0.092 | 12 | 1.104 |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

## UNCLASSIFIED

| Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2021 Air Force |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Date: February 2020 |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3080F / 02 / 5 |  |  |  |  |  |  |  | P-1 Line Item Number / Title: <br> 825990 / Materials Handling Vehicles |  |  |  |  |  |  |  | Aggregated Items Title: Materials Handling Vehicles |  |  |  |  |
|  | $\begin{aligned} & \text { ID } \\ & \text { CD } \end{aligned}$ | mDAP/ MAIS Code | Prior Years |  |  | FY 2019 |  |  | FY 2020 |  |  | FY 2021 Base |  |  | FY 2021 OCO |  |  | FY 2021 Total |  |  |
| Item Number / Title [DODIC] |  |  | 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) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \\ \hline \end{gathered}$ | Total Cost <br> (\$ M) | Unit Cost (\$ M) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \\ \hline \end{gathered}$ | Total Cost <br> (\$ M) | Unit Cost (\$ M) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \\ \hline \end{gathered}$ | Total Cost <br> (\$ M) |
| AF |  |  |  | - | - |  | 37 | 3.330 |  | 24 | 2.208 |  | 9 | 0.828 |  | - | - |  | 9 | 0.828 |
| AFR |  |  |  | - | - |  | 9 | 0.810 |  | 7 | 0.644 |  | 3 | 0.276 |  | - | - |  | 3 | 0.276 |
| FORKLIFT, 3K ELECTRIC 011022185 | A |  | - | - | - | 0.025 | 4 | 0.100 | 0.025 | 1 | 0.025 | - | - | - | - | - | - | - | - | - |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | - |  | 3 | 0.075 |  | 1 | 0.025 |  | - | - |  | - | - |  | - | - |
| AFR |  |  |  | - | - |  | 1 | 0.025 |  | - | - |  | - | - |  | - | - |  | - | - |
| FORKLIFT, 6K ELECTRIC 010471157 | A |  | - | - | - | 0.046 | 4 | 0.184 | 0.039 | 19 | 0.741 | - | - | - | - | - | - | - | - | - |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | - |  | 4 | 0.184 |  | 15 | 0.585 |  | - | - |  | - | - |  | - | - |
| AFR |  |  |  | - | - |  | - | - |  | 4 | 0.156 |  | - | - |  | - | - |  | - | - |
| 10K 55' REACH TELEHANDLER 015769312 | A |  | - | - | - | 0.222 | 15 | 3.330 | 0.208 | 14 | 2.912 | 0.222 | 6 | 1.334 | 0.222 | 9 | 2.001 | 0.222 | 15 | 3.335 |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | - |  | 15 | 3.330 |  | 14 | 2.912 |  | 6 | 1.334 |  | 9 | 2.001 |  | 15 | 3.335 |
| 4K WHSE TRAC 010070115 | A |  | - | - | - | 0.051 | 20 | 1.020 | 0.057 | 7 | 0.399 | 0.051 | 13 | 0.665 | - | - | - | 0.051 | 13 | 0.665 |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | - |  | 19 | 0.969 |  | 7 | 0.399 |  | 9 | 0.460 |  | - | - |  | 9 | 0.460 |
| AFR |  |  |  | - | - |  | 1 | 0.051 |  | - | - |  | 4 | 0.205 |  | - | - |  | 4 | 0.205 |
| FORKLIFT, 50K AT CNTR HD 013073658 | A |  | - | - | - | - | - | - | - | - | - | - | - | - | 0.746 | 4 | 2.983 | 0.746 | 4 | 2.983 |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | - |  | - | - |  | - | - |  | - | - |  | 4 | 2.983 |  | 4 | 2.983 |
| F/L 100K REACH STACKER 014958475 | A |  | - | - | - | 0.466 | 8 | 3.730 | 0.475 | 2 | 0.950 | 0.486 | 5 | 2.429 | - | - | - | 0.486 | 5 | 2.429 |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | - |  | 8 | 3.730 |  | 2 | 0.950 |  | 5 | 2.429 |  | - | - |  | 5 | 2.429 |
| $\begin{aligned} & \text { FORKLIFT, 25K } \\ & 013904562 \end{aligned}$ | A |  | - | - | - | 0.697 | 1 | 0.697 | 0.234 | 1 | 0.234 | 0.696 | 5 | 3.480 | - | - | - | 0.696 | 5 | 3.480 |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | - |  | 1 | 0.697 |  | 1 | 0.234 |  | 5 | 3.480 |  | - | - |  | 5 | 3.480 |
| FORKLIGT, TRUCK ELEC NARI 3000\# 011028906 | A |  | - | - | - | 0.033 | 3 | 0.099 | 0.033 | 7 | 0.231 | 0.033 | 1 | 0.033 | - | - | - | 0.033 | 1 | 0.033 |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | - |  | 2 | 0.066 |  | 7 | 0.231 |  | 1 | 0.033 |  | - | - |  | 1 | 0.033 |

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| Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2021 Air Force ${ }^{\text {a }}$ D |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Date: February 2020 <br> Aggregated Items Title: Materials Handling Vehicles |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3080F / 02 / 5 |  |  |  |  |  |  |  | P-1 Line Item Number / Title: 825990 / Materials Handling Vehicles |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  | Prior Years |  |  | FY 2019 |  |  | FY 2020 |  |  | FY 2021 Base |  |  | FY 2021 OCO |  |  | FY 2021 Total |  |  |
| Item Number / Title [DODIC] | $\begin{aligned} & \mathrm{ID} \\ & \mathrm{CD} \end{aligned}$ | $\begin{array}{\|c\|c\|} \hline \text { MDAPI } \\ \text { MAIS } \\ \text { Code } \\ \hline \end{array}$ | Unit Cost $(\$ M)$ | $\begin{gathered} \text { Qty } \\ \text { (Each) } \\ \hline \end{gathered}$ | Total Cost $\qquad$ | $\begin{array}{\|c\|} \hline \text { Unit Cost } \\ (\$ M) \end{array}$ | $\begin{gathered} \text { Qty } \\ \text { (Each) } \\ \hline \end{gathered}$ | Total Cost (\$ M) | Unit Cost (\$ M) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | Total Cost (\$ M) | Unit Cost (\$ M) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \\ \hline \end{gathered}$ | Total Cost $\qquad$ | Unit Cost (\$ M) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \\ \hline \end{gathered}$ | Total Cost <br> (\$ M) | Unit Cost (\$M) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | $\begin{aligned} & \text { Total } \\ & \text { Cost } \\ & (\$ M) \\ & \hline \end{aligned}$ |
| AFR |  |  |  | - | - |  |  | $1{ }^{1} 0.033$ |  | - | - |  | - | - |  | - | - |  | - | - |
| PMA OTHER GOVERNMENT costs | A |  | - | - | - | - | - | 0.017 | - | - | 0.041 | - | - | 0.039 | - | - | 0.015 | - | - | 0.054 |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | - |  | - | 0.017 |  | - | 0.041 |  | - | 0.039 |  | - | 0.015 |  | - | 0.054 |
| FORKLIFT, TRUCK AT LGE CAP 13K 011260457 | A |  | - | - | - | 0.241 |  | $8 \quad 1.928$ | 0.241 | 2 | 0.482 | - | - | . | . | - | . | . | . | . |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | - |  |  | 8 1.928 |  | 2 | 0.482 |  | - | - |  | - | - |  | - | - |
| Subtotal: Uncategorized |  |  | - | - | - | - | - | 36.217 | - | - | 25.068 | - | - | 12.897 | - | - | 14.167 | - | - | 27.064 |
| Total |  |  | - | - | - | - | - | 36.217 | - | - | 25.068 | - | - | 12.897 | - | - | 14.167 | - | - | 27.064 |
| Note: Subtotals or Totals in this Exhibit P-40a may not be exact or sum exactly, due to rounding. |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

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Exhibit P-40, Budget Line Item Justification: PB 2021 Air Force
Date: February 2020

## P-1 Line Item Number / Title:

826210 / Runway Snow Remov And Cleaning Equ Maintenance Support

| ID Code (A=Service Ready, B=Not Service Ready) |  |  | Program Ele | ents for Cod | B Items: N |  |  | ther Relat | Program El | ents: N/A |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Line Item MDAP/MAIS Code: N/A |  |  |  |  |  |  |  |  |  |  |  |  |
| Resource Summary | Prior <br> Years | FY 2019 | FY 2020 | $\text { FY } 2021$ Base | $\begin{gathered} \text { FY } 2021 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \text { FY } 2021 \\ \text { Total } \end{gathered}$ | FY 2022 | FY 2023 | FY 2024 | FY 2025 | To Complete | Total |
| Procurement Quantity (Units in Each) | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Cost (\$ in Millions) | - | 47.280 | 6.678 | 3.577 | 5.759 | 9.336 | 9.173 | 9.024 | 7.265 | 9.236 | - | 97.992 |
| Less PY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Net Procurement (P-1) (\$ in Millions) | - | 47.280 | 6.678 | 3.577 | 5.759 | 9.336 | 9.173 | 9.024 | 7.265 | 9.236 | - | 97.992 |
| Plus CY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Total Obligation Authority (\$ in Millions) | - | 47.280 | 6.678 | 3.577 | 5.759 | 9.336 | 9.173 | 9.024 | 7.265 | 9.236 | - | 97.992 |
| (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 Dollars) | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Unit Cost (\$ in Dollars) | - | - | - | - | - | - | - | - |  |  | - |  |

## Description:

FY19 funding totals include $\$ 9.680 \mathrm{M}$ appropriated for Overseas Contingency Operations.
FY20 funding totals include $\$ 3.753 \mathrm{M}$ appropriated for Overseas Contingency Operations.


 FOD-related engine accidents.
 closing of airfields due to debris and/or snow and ice buildup.

This requirement (or modification) supports performance of a full financial audit as required by title 10 U.S.C. Chapter 9A, Sec 240-D.
 defense missions, domestic emergency responses, and providing military support to civil authorities.

Funding for this exhibit contained in PEs: 0202834F, 0208028F, 0502831F, 0507831F, 0702831F.

| Secondary Distribution |  | FY 2019 | FY 2020 | $\begin{gathered} \text { FY } 2021 \\ \text { Base } \end{gathered}$ | $\begin{aligned} & \text { FY } 2021 \\ & \text { OCO } \end{aligned}$ | $\begin{gathered} \text { FY } 2021 \\ \text { Total } \end{gathered}$ | FY 2022 | FY 2023 | FY 2024 | FY 2025 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| AF | Quantity | 138 | 31 | 15 | 21 | 36 | - | - | - | - |
|  | Total Obligation Authority | 46.902 | 6.266 | 2.427 | 5.759 | 8.186 | - | - | - | - |

## UNCLASSIFIED

| Exhibit P-40, Budget Line Item Justification: PB 2021 Air Force |  |  |  |  |  |  |  | Date: February 2020 |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: <br> 3080F: Other Procurement, Air Force / BA 02: Vehicular Equipment / BSA 6: Base <br> Maintenance Support |  |  |  |  | P-1 Line Item Number / Title: <br> 826210 / Runway Snow Remov And Cleaning Equ |  |  |  |  |  |
| ID Code (A=Service Ready, B=Not Service Ready): A Pros |  |  | Program Elements for Code B Items: N/A |  |  |  | Other Related Program Elements: N/A |  |  |  |
| Line Item MDAP/MAIS Code: N/A |  |  |  |  |  |  |  |  |  |  |
| Secondary Distribution |  | FY 2019 | FY 2020 | $\begin{gathered} \text { FY } 2021 \\ \text { Base } \end{gathered}$ | $\begin{aligned} & \text { FY } 2021 \\ & \text { OCO } \end{aligned}$ | $\begin{gathered} \text { FY } 2021 \\ \text { Total } \end{gathered}$ | FY 2022 | FY 2023 | FY 2024 | FY 2025 |
| AFNG | Quantity | 1 | 1 | 3 | 0 | 3 | - | - | - | - |
|  | Total Obligation Authority | 0.303 | 0.335 | 0.327 | 0.000 | 0.327 | - | - | - | - |
| AFR | Quantity | 1 | 1 | 4 | 0 | 4 | - | - | - | - |
|  | Total Obligation Authority | 0.075 | 0.077 | 0.823 | 0.000 | 0.823 | - | - | - | - |
| Total: <br> Secondary Distribution | Quantity | 140 | 33 | 22 | 21 | 43 | - | - | - | - |
|  | Total Obligation Authority | 47.280 | 6.678 | 3.577 | 5.759 | 9.336 | - | - | - | - |

Exhibit P-40, Budget Line Item Justification: PB 2021 Air Force
Appropriation / Budget Activity / Budget Sub Activity:
3080F: Other Procurement, Air Force / BA 02: Vehicular Equipment / BSA 6: Base
Maintenance Support
Maintenance Support

## P-1 Line Item Number / Title:

826210 / Runway Snow Remov And Cleaning Equ

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

## Justification:

FY21 procurement dollars in the amount of $\$ 3.577 \mathrm{M}$ will procure, but not be limited to, 22 vehicles in support of installation and unit mission requirements for Air Force personnel.
FY21 OCO dollars in the amount of $\$ 5.759 \mathrm{M}$ will procure, but not be limited to, 21 vehicles in support of installation and unit mission requirements for Air Force personnel.

 of life projections based on depreciation and service life of the vehicle, cumulative sustainment cost and mission priority.
 European Deterrence Initiative (EDI), Regional Base Cluster Prepositioning Kits (RBCP) for PACOM, and other initiatives as they arise.

As the model applies the life expectancy/sustainment cost/mission priority logic in generating requirements, there can be gaps in individual vehicle type (NSN) requirements from year-to-year.

 fluctuations in contract pricing.

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| Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2021 Air Force |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Date: February 2020 |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity:$\text { 3080F / } 02 \text { / } 6$ |  |  |  |  |  |  |  | P-1 Line Item Number / Title: <br> 826210 / Runway Snow Remov And Cleaning Equ |  |  |  |  |  |  |  | Aggregated Items Title: <br> Runway Snow Remov And Cleaning Equ |  |  |  |  |
|  | $\begin{aligned} & \text { ID } \\ & \text { CD } \end{aligned}$ |  | Prior Years |  |  | FY 2019 |  |  | FY 2020 |  |  | FY 2021 Base |  |  | FY 2021 OCO |  |  | FY 2021 Total |  |  |
| Item Number / <br> Title [DODIC] |  | MDAP/ <br> MAIS <br> Code | Unit Cost (\$) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost (\$ M) | Unit Cost <br> (\$) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost (\$ M) | Unit Cost (\$) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost (\$ M) | Unit Cost (\$) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | Total Cost (\$ M) | Unit Cost (\$) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost (\$ M) | Unit Cost (\$) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost (\$ M) |
| Uncategorized |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| CLEANER, VAC MULTIPURPOSE (2438) | A |  | - | - | - | 173,000.00 | 44 | 7.612 | 173,000.00 | 16 | 2.768 | 173,000.00 | 7 | 1.211 | 173,000.00 | 5 | 0.865 | 173,000.00 | 12 | 2.076 |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | - |  | 44 | 7.612 |  | 16 | 2.768 |  | 5 | 0.865 |  | 5 | 0.865 |  | 10 | 1.730 |
| AFNG |  |  |  | - | - |  | - | - |  | - | - |  | 1 | 0.173 |  | - | - |  | 1 | 0.173 |
| AFR |  |  |  | - | - |  | - | - |  | - | - |  | 1 | 0.173 |  | - | - |  | 1 | 0.173 |
| RAPID RUNWAY REPAIR DIRT SWEEPER (1997) | A |  | - | - | - | 75,000.00 | 14 | 1.050 | 77,000.00 | 8 | 0.616 | 77,000.00 | 12 | 0.924 | 77,000.00 | 7 | 0.539 | 77,000.00 | 19 | 1.463 |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | - |  | 13 | 0.975 |  | 7 | 0.539 |  | 8 | 0.616 |  | 7 | 0.539 |  | 15 | 1.155 |
| AFNG |  |  |  | - | - |  | - | - |  | - | - |  | 2 | 0.154 |  | - | - |  | 2 | 0.154 |
| AFR |  |  |  | - | - |  | 1 | 0.075 |  | 1 | 0.077 |  | 2 | 0.154 |  | - | - |  | 2 | 0.154 |
| 54K PLOW (7657) | A |  | - | - | - | 303,000.00 | 11 | 3.333 | - | - | - | - | - | - | - | - | - | - | - | - |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | - |  | 10 | 3.030 |  | - | - |  | - | - |  | - | - |  | - | - |
| AFNG |  |  |  | - | - |  | 1 | 0.303 |  | - | - |  | - | - |  | - | - |  | - | - |
| DUMP W/SNOW PLOW (3963) | A |  | - | - | - | - | - | - | 180,000.00 | 2 | 0.360 | - | - | - | - | - | - | - | - | - |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | - |  | - | - |  | 2 | 0.360 |  | - | - |  | - | - |  | - | - |
| SNOW BROOM AND BLOWER (3770) | A |  | - | - | - | 527,000.00 | 28 | 14.756 | 449,000.00 | 3 | 1.347 | 449,000.00 | 1 | 0.449 | 449,000.00 | 3 | 1.347 | 449,000.00 | 4 | 1.796 |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | - |  | 28 | 14.756 |  | 3 | 1.347 |  | 1 | 0.449 |  | 3 | 1.347 |  | 4 | 1.796 |
| SNOW REMOVAL UNIT 3K TON PER HOUR (5554) | A |  | - | - | - | 526,000.00 | 28 | 14.728 | 496,000.00 | 1 | 0.496 | 496,000.00 | 2 | 0.992 | 496,000.00 | 6 | 2.976 | 496,000.00 | 8 | 3.968 |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | - |  | 28 | 14.728 |  | 1 | 0.496 |  | 1 | 0.496 |  | 6 | 2.976 |  | 7 | 3.472 |
| AFR |  |  |  | - | - |  | - | - |  | - | - |  | 1 | 0.496 |  | - | - |  | 1 | 0.496 |
| 45K REVERSIBLE <br> PLOW (1944) | A |  | - | - | - | 386,000.00 | 15 | 5.790 | 335,000.00 | 3 | 1.005 | - | - | - | - | - | - | - | - | - |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | - |  | 15 | 5.790 |  | 2 | 0.670 |  | - | - |  | - | - |  | - | - |
| AFNG |  |  |  | - | - |  | - | - |  | 1 | 0.335 |  | - | - |  | - | - |  | - | - |
| PMA OTHER GOVERNMENT COSTS | A |  | - | - | - | - | - | 0.011 | - | - | 0.086 | - | - | 0.001 | - | . | 0.032 | - | - | 0.033 |

UNCLASSIFIED

| Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2021 Air Force |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Date: February 2020 |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3080F / 02 / 6 |  |  |  |  |  |  |  | P-1 Line Item Number / Title: <br> 826210 / Runway Snow Remov And Cleaning Equ |  |  |  |  |  |  |  | Aggregated Items Title: <br> Runway Snow Remov And Cleaning Equ |  |  |  |  |
|  |  |  | Prior Years |  |  | FY 2019 |  |  | FY 2020 |  |  | FY 2021 Base |  |  | FY 2021 OCO |  |  | FY 2021 Total |  |  |
| Item Number / Title [DODIC] | $\begin{aligned} & \mathrm{ID} \\ & \mathrm{CD} \end{aligned}$ | $\begin{array}{\|l} \text { MDAP/ } \\ \text { MAIS } \\ \text { Code } \end{array}$ | Unit Cost <br> (\$) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost <br> (\$ M) | Unit Cost <br> (\$) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost (\$ M) | Unit Cost <br> (\$) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost (\$ M) | Unit Cost <br> (\$) | $\begin{gathered} \text { Qty } \\ (\text { (Each) } \end{gathered}$ | Total Cost <br> (\$ M) | Unit Cost (\$) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | Total <br> Cost <br> (\$ M) | Unit Cost (\$) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | Total <br> Cost <br> (\$ M) |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | - |  | - | 0.011 |  | - | 0.086 |  | - | 0.001 |  | - | 0.032 |  | - | 0.033 |
| Subtotal: Uncategorized |  |  | $\cdot$ |  | - | - |  | 47.280 | - | - | 6.678 | - | - | 3.577 | - | - | 5.759 | - | - | 9.336 |
| Total |  |  | - | - | - | - |  | 47.280 | - | - | 6.678 | - | - | 3.577 | - | - | 5.759 | - | - | 9.336 |
| Note: Subtotals or Totals in this Exhibit P-40a may not be exact or sum exactly, due to rounding. |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Remarks: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Based on AF Mission changes and/or AF Mission priorities, NSNs and/or quantities may change during year of execution. |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| UNIT COSTS FOR FY21 ARE SUBJECT TO CHANGE. |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

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Exhibit P-40, Budget Line Item Justification: PB 2021 Air Force
Date: February 2020
Appropriation / Budget Activity / Budget Sub Activity:
3080F: Other Procurement, Air Force / BA 02: Vehicular Equipment / BSA 6: Base
Maintenance Support

## P-1 Line Item Number / Title:

826990 / Base Maintenance Support Vehicles

| 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 <br> Years | FY 2019 | FY 2020 | $\text { FY } 2021$ Base | $\begin{gathered} \text { FY } 2021 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \text { FY } 2021 \\ \text { Total } \end{gathered}$ | FY 2022 | FY 2023 | FY 2024 | FY 2025 | To Complete | Total |
| Procurement Quantity (Units in Each) | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Cost (\$ in Millions) | - | 114.603 | 70.013 | 43.095 | 20.653 | 63.748 | 89.128 | 84.275 | 73.864 | 88.855 | - | 584.486 |
| Less PY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Net Procurement (P-1) (\$ in Millions) | - | 114.603 | 70.013 | 43.095 | 20.653 | 63.748 | 89.128 | 84.275 | 73.864 | 88.855 | - | 584.486 |
| Plus CY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Total Obligation Authority (\$ in Millions) | - | 114.603 | 70.013 | 43.095 | 20.653 | 63.748 | 89.128 | 84.275 | 73.864 | 88.855 | - | 584.486 |

(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:

FY19 funding totals include $\$ 9.680 \mathrm{M}$ appropriated for Overseas Contingency Operations.
FY20 funding totals include $\$ 11.837 \mathrm{M}$ appropriated for Overseas Contingency Operations.


 contingency operations.

This requirement (or modification) supports performance of a full financial audit as required by title 10 U.S.C. Chapter 9A, Sec 240-D.
 defense missions, domestic emergency responses, and providing military support to civil authorities.

Funding for this exhibit contained in PEs: 0202834F, 0208028F, 0502831F, 0507831F, 0702831F.

| Secondary Distribution |  | FY 2019 | FY 2020 | $\text { FY } 2021$ Base | $\begin{gathered} \text { FY } 2021 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \text { FY } 2021 \\ \text { Total } \end{gathered}$ | FY 2022 | FY 2023 | FY 2024 | FY 2025 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| AF | Quantity | 605 | 389 | 210 | 126 | 336 | - | - | - | - |
|  | Total Obligation Authority | 112.346 | 68.963 | 42.225 | 20.653 | 62.878 | - | - | - | - |
| AFNG | Quantity | 7 | 5 | 8 | 0 | 8 | - | - | - | - |
|  | Total Obligation Authority | 1.978 | 0.776 | 0.673 | 0.000 | 0.673 | - | - | - | - |
| AFR | Quantity | 1 | 4 | 2 | 0 | 2 | - | - | - | - |

## UNCLASSIFIED

| Exhibit P-40, Budget Line Item Justification: PB 2021 Air Force |  |  |  |  |  |  |  | Date: February 2020 |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3080F: Other Procurement, Air Force / BA 02: Vehicular Equipment / BSA 6: Base Maintenance Support |  |  |  |  | P-1 Line Item Number / Title: 826990 / Base Maintenance Support Vehicles |  |  |  |  |  |
| ID Code (A=Service Ready, | 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 |  |  |  |  |  |  |  |  |  |  |
| Secondary Distribution |  | FY 2019 | FY 2020 | $\begin{gathered} \text { FY } 2021 \\ \text { Base } \end{gathered}$ | $\begin{aligned} & \text { FY } 2021 \\ & \text { OCO } \end{aligned}$ | $\begin{gathered} \text { FY } 2021 \\ \text { Total } \end{gathered}$ | FY 2022 | FY 2023 | FY 2024 | FY 2025 |
|  | Total Obligation Authority | 0.279 | 0.274 | 0.197 | 0.000 | 0.197 | - | - | - | - |
| Total: | Quantity | 613 | 398 | 220 | 126 | 346 | - | - | - | - |
| Secondary Distribution | Total Obligation Authority | 114.603 | 70.013 | 43.095 | 20.653 | 63.748 | - | - | - | - |

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

| Appropriation / Budget Activity / Budget Sub Activity: <br> 3080F: Other Procurement, Air Force / BA 02: Vehicular Equipment / BSA 6: Base Maintenance Support |  |  |  |  |  | P-1 Line Item Number / Title: <br> 826990 / Base Maintenance Support Vehicles |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| ID Cod | e (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 |  |  |  |  |  |  |  |  |  |  |  |
| Exhibits Schedule |  |  |  |  | Prior Years | FY 2019 | FY 2020 |  | FY 2021 Base | FY 2021 OCO | FY 2021 Total |
| Exhibit Type | Title* | Subexhibits | $\begin{aligned} & \text { ID } \\ & \text { CD } \end{aligned}$ | MDAP/ MAIS Code | Quantity / Total Cos (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) | $\begin{aligned} & \text { Quantity } \\ & \text { (Ead } \end{aligned}$ | / Total Cost <br> l I I (\$ M) | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) |
| P-40a | Base Maintenance Support Vehicles |  |  |  | 1 - | - /114.603 |  | 170.013 | - / 43.095 | - 120.653 | - 163.748 |
| P-40 | Total Gross/Weapon System Cost |  |  |  | 1 | - /114.603 |  | 170.013 | - 143.095 | - 120.653 | - 163.748 |


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

## Justification:

FY21 procurement dollars in the amount of $\$ 43.095 \mathrm{M}$ will procure, but not be limited to, 220 vehicles in support of installation and unit mission requirements for Air Force personnel.
FY21 OCO dollars in the amount of $\$ 20.653 \mathrm{M}$ will procure, but not be limited to, 126 vehicles in support of installation and unit mission requirements for Air Force personnel.

 of life projections based on depreciation and service life of the vehicle, cumulative sustainment cost and mission priority.
 European Deterrence Initiative (EDI), Regional Base Cluster Prepositioning Kits (RBCP) for PACOM, and other initiatives as they arise.

As the model applies the life expectancy/sustainment cost/mission priority logic in generating requirements, there can be gaps in individual vehicle type (NSN) requirements from year-to-year.

 fluctuations in contract pricing.

## UNCLASSIFIED

| Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2021 Air Force |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Date: February 2020 |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity:$\text { 3080F / } 02 \text { / } 6$ |  |  |  |  |  |  |  | P-1 Line Item Number / Title: <br> 826990 / Base Maintenance Support Vehicles |  |  |  |  |  |  |  | Aggregated Items Title: <br> Base Maintenance Support Vehicles |  |  |  |  |
|  | $\begin{aligned} & \text { ID } \\ & \text { CD } \end{aligned}$ | $\begin{gathered} \text { MDAP/ } \\ \text { MAIS } \\ \text { Code } \end{gathered}$ | Prior Years |  |  | FY 2019 |  |  | FY 2020 |  |  | FY 2021 Base |  |  | FY 2021 OCO |  |  | FY 2021 Total |  |  |
| Item Number / Title [DODIC] |  |  | 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) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | Total Cost <br> (\$ M) | $\begin{gathered} \text { Unit Cost } \\ (\$ M) \end{gathered}$ | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | Total Cost <br> (\$ M) | Unit Cost (\$ M) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost $\qquad$ | Unit Cost (\$ M) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \\ \hline \end{gathered}$ | Total Cost <br> (\$ M) |
| Uncategorized |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| DUMP TRUCK, $6 \times 4,64 \mathrm{k}$ GVW (2320-01-524-6043) | A |  | - | - | - | 0.160 | 18 | 2.883 | 0.154 | 3 | 0.462 | 0.154 | 1 | 0.154 | - | - | - | 0.154 | 1 | 0.154 |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | - |  | 18 | 2.883 |  | 3 | 0.462 |  | 1 | 0.154 |  | - | - |  | 1 | 0.154 |
| BATCHING PLANT (3895-01-063-2722) | A |  | - | - | - | - | - | - | 1.193 | 1 | 1.193 | - | - | - | - | - | - | - | - | - |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | - |  | - | - |  | 1 | 1.193 |  | - | - |  | - | - |  | - | - |
| MKR TRAFFIC (3825-00-542-2515) | A |  | - | - | 0.000 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| CRANE 25TON ROUGH TERRAIN (3810-01-479-9745) | A |  | - | - | - | 0.279 | 2 | 0.558 | - | - | - | - | - | - | - | - | - | - | - | - |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | - |  | 1 | 0.279 |  | - | - |  | - | - |  | - | - |  | - | - |
| AFR |  |  |  | - | - |  | 1 | 0.279 |  | - | - |  | - | - |  | - | - |  | - | - |
| MIXER, CONCRETE TRK (3895-01-543-8568) | A |  | - | - | - | - | - | - | 0.250 | 5 | 1.250 | - | - | - | - | - | - | - | - | - |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | - |  | - | - |  | 5 | 1.250 |  | - | - |  | - | - |  | - | - |
| TRAC FTRACD SZT4 (2410-00-166-4176) | A |  | - | - | - | 0.119 | 5 | 0.595 | 0.146 | 5 | 0.730 | - | - | - | - | - | - | - | - | - |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | - |  | 5 | 0.595 |  | 4 | 0.584 |  | - | - |  | - | - |  | - | - |
| AFR |  |  |  | - | - |  | - | - |  | 1 | 0.146 |  | - | - |  | - | - |  | - | - |
| FRONT HOIST REF TRK (2320-01-470-6102) | A |  | - | - | - | - | - | - | 0.225 | 3 | 0.675 | - | - | - | - | - | - | - | - | - |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | - |  | - | - |  | 3 | 0.675 |  | - | - |  | - | - |  | - | - |
| SCOOP LOADER (3805-00-260-1967) | A |  | - | - | - | 0.149 | 23 | 3.427 | 0.153 | 5 | 0.766 | 0.153 | 4 | 0.613 | - | - | - | 0.153 | 4 | 0.613 |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | - |  | 22 | 3.278 |  | 5 | 0.766 |  | 4 | 0.613 |  | - | - |  | 4 | 0.613 |
| AFNG |  |  |  | - | - |  | 1 | 0.149 |  | - | - |  | - | - |  | - | - |  | - | - |
| TRK DP 24000-33000G 4X2 (2320-00-833-6117) | A |  | - | - | - | 0.082 | 23 | 1.886 | 0.082 | 3 | 0.246 | 0.082 | 6 | 0.492 | - | - | - | 0.082 | 6 | 0.492 |


| Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2021 Air Force |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Date: February 2020 |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity:$\text { 3080F / } 02 \text { / } 6$ |  |  |  |  |  |  |  | P-1 Line Item Number / Title: <br> 826990 / Base Maintenance Support Vehicles |  |  |  |  |  |  |  | Aggregated Items Title: <br> Base Maintenance Support Vehicles |  |  |  |  |
|  | $\begin{aligned} & \text { ID } \\ & \text { CD } \end{aligned}$ | MDAP/ MAIS Code | Prior Years |  |  | FY 2019 |  |  | FY 2020 |  |  | FY 2021 Base |  |  | FY 2021 OCO |  |  | FY 2021 Total |  |  |
| Item Number / Title [DODIC] |  |  | 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) | Unit Cost (\$ M) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost (\$ M) |
| AF |  |  |  | - | - |  | 23 | 1.886 |  | 3 | 0.246 |  | 5 | 0.410 |  | - | - |  | 5 | 0.410 |
| AFNG |  |  |  | - | - |  | - | - |  | - | - |  | 1 | 0.082 |  | - | - |  | 1 | 0.082 |
| 5 TON DUMP TRUCK (2320-00-706-5348) | A |  | - | - | - | 0.116 | 7 | 0.814 | 0.116 | 1 | 0.116 | - | - | - | - | - | - | - | - | - |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | - |  | 6 | 0.698 |  | - | - |  | - | - |  | - | - |  | - | - |
| AFNG |  |  |  | - | - |  | 1 | 0.116 |  | 1 | 0.116 |  | - | - |  | - | - |  | - | - |
| $\begin{aligned} & 2.5 \text { CY SCOOP } \\ & \text { LOADER FT } \\ & \text { (3805-00-728-9718) } \end{aligned}$ | A |  | - | - | 0.000 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| EXCAVATOR DIESEL ENGINE DRIVEN PT (3805-01-106-7176) | A |  | - | - | - | 0.278 | 14 | 3.889 | 0.329 | 7 | 2.301 | 0.329 | 6 | 1.974 | 0.329 | 10 | 3.287 | 0.329 | 16 | 5.261 |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | - |  | 14 | 3.889 |  | 7 | 2.301 |  | 6 | 1.974 |  | 10 | 3.287 |  | 16 | 5.261 |
| WHEELED DITCHING MACHINE (3805-01-032-9974) | A |  | - | - | - | 0.211 | 22 | 4.639 | 0.213 | 3 | 0.639 | 0.213 | 4 | 0.851 | - | - | - | 0.213 | 4 | 0.851 |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | - |  | 22 | 4.639 |  | 3 | 0.639 |  | 4 | 0.851 |  | - | - |  | 4 | 0.851 |
| 1.5 CY SCOOP LDR W/Q CPLR (3805-01-074-8111) | A |  | - | - | - | 0.126 | 22 | 2.772 | 0.121 | 3 | 0.363 | 0.121 | 4 | 0.484 | - | - | - | 0.121 | 4 | 0.484 |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | - |  | 22 | 2.772 |  | 3 | 0.363 |  | 2 | 0.242 |  | - | - |  | 2 | 0.242 |
| AFNG |  |  |  | - | - |  | - | - |  | - | - |  | 2 | 0.242 |  | - | - |  | 2 | 0.242 |
| LODR SCP PT 4CY (3805-01-075-1816) | A |  | - | - | - | 0.244 | 40 | 9.760 | 0.262 | 24 | 6.298 | 0.262 | 30 | 7.860 | 0.262 | 16 | 4.198 | 0.262 | 46 | 12.058 |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | - |  | 39 | 9.516 |  | 24 | 6.298 |  | 30 | 7.860 |  | 16 | 4.198 |  | 46 | 12.058 |
| AFNG |  |  |  | - | - |  | 1 | 0.244 |  | - | - |  | - | - |  | - | - |  | - | - |
| SCOOP LDR W/BKHOE (3805-00-148-2169) | A |  | - | - | - | 0.084 | 38 | 3.174 | 0.119 | 8 | 0.950 | 0.119 | 3 | 0.357 | 0.119 | 5 | 0.594 | 0.119 | 8 | 0.951 |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | - |  | 38 | 3.174 |  | 8 | 0.950 |  | 3 | 0.357 |  | 5 | 0.594 |  | 8 | 0.951 |
| SCOOP LOADER, SKID STEER 1CY (3805-01-257-5636) | A |  | - | - | - | 0.076 | 15 | 1.144 | 0.076 | 4 | 0.305 | 0.076 | 1 | 0.076 | - | - | - | 0.076 | 1 | 0.076 |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | - |  | 15 | 1.144 |  | 4 | 0.305 |  | 1 | 0.076 |  | - | - |  | 1 | 0.076 |


| Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2021 Air Force |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Date: February 2020 |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity:$\text { 3080F / } 02 \text { / } 6$ |  |  |  |  |  |  |  | P-1 Line Item Number / Title: <br> 826990 / Base Maintenance Support Vehicles |  |  |  |  |  |  | Aggregated Items Title: Base Maintenance Support Vehicles |  |  |  |  |  |
|  |  |  | Prior Years |  |  | FY 2019 |  |  | FY 2020 |  |  | FY 2021 Base |  |  | FY 2021 OCO |  |  | FY 2021 Total |  |  |
| Item Number / <br> Title [DODIC] | $\begin{aligned} & \text { ID } \\ & \text { CD } \end{aligned}$ | $\begin{gathered} \text { MDAPI } \\ \text { MAIS } \\ \text { Code } \end{gathered}$ | Unit Cost (\$ M) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \\ & \hline \end{aligned}$ | Total Cost (\$ M) | Unit Cost (\$ M) | Qty (Each) | Total Cost (\$ M) | Unit Cost (\$ M) | $\underset{(\text { Each })}{\text { Qty }}$ | 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) |
| DISTR BIT TRK MTD (3895-00-352-8105) | A |  | - | - | 0.000 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| CRAWLER DITCHING MACHINE (3805-00-080-1931) | A |  | - | - | - | - | - | - | - | - | - | 0.286 | 1 | 0.286 | - | - | - | 0.286 | 1 | 0.286 |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | - |  | - | - |  | - | - |  | 1 | 0.286 |  | - | - |  | 1 | 0.286 |
| ROLLER MOT PT SP 15 T (3895-00-078-5898) | A |  | - | - | - | 0.088 | 11 | 0.968 | 0.080 | 22 | 1.756 | 0.080 | 8 | 0.639 | - | - | - | 0.080 | 8 | 0.639 |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | - |  | 11 | 0.968 |  | 22 | 1.756 |  | 8 | 0.639 |  | - | - |  | 8 | 0.639 |
| RLR RD TAND 2RL (3895-00-243-6797) | A |  | - | - | - | 0.035 | 4 | 0.141 | 0.048 | 4 | 0.191 | 0.048 | 1 | 0.048 | - | - | - | 0.048 | 1 | 0.048 |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | - |  | 4 | 0.141 |  | 4 | 0.191 |  | 1 | 0.048 |  | - | - |  | 1 | 0.048 |
| RLR VIB TYPE II (3895-01-071-5625) | A |  | - | - | - | 0.150 | 25 | 3.750 | 0.148 | 15 | 2.226 | 0.148 | 4 | 0.592 | - | - | - | 0.148 | 4 | 0.592 |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | - |  | 25 | 3.750 |  | 15 | 2.226 |  | 4 | 0.592 |  | - | - |  | 4 | 0.592 |
| 1500G WATER DISTR (3825-00-554-1808) | A |  | - | - | - | 0.181 | 17 | 3.077 | 0.156 | 29 | 4.510 | 0.156 | 22 | 3.432 | 0.156 | 20 | 3.111 | 0.156 | 42 | 6.543 |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | - |  | 17 | 3.077 |  | 29 | 4.510 |  | 22 | 3.432 |  | 20 | 3.111 |  | 42 | 6.543 |
| TRAC IND IW-70 (2420-00-113-8984) | A |  | - | - | - | 0.067 | 58 | 3.899 | 0.054 | 13 | 0.696 | 0.054 | 10 | 0.540 | - | - | - | 0.054 | 10 | 0.540 |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | - |  | 58 | 3.899 |  | 9 | 0.482 |  | 9 | 0.486 |  | - | - |  | 9 | 0.486 |
| AFNG |  |  |  | - | - |  | - | - |  | 2 | 0.107 |  | - | - |  | - | - |  | - | - |
| AFR |  |  |  | - | - |  | - | - |  | 2 | 0.107 |  | 1 | 0.054 |  | - | - |  | 1 | 0.054 |
| $\begin{aligned} & \text { DOZER T7 } \\ & \text { (2410-00-756-1161) } \end{aligned}$ | A |  | - | - | - | 0.713 | 29 | 20.690 | 0.269 | 23 | 6.181 | 0.269 | 11 | 2.956 | - | - | - | 0.269 | 11 | 2.956 |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | - |  | 28 | 19.977 |  | 23 | 6.181 |  | 11 | 2.956 |  | - | - |  | 11 | 2.956 |
| AFNG |  |  |  | - | - |  | 1 | 0.713 |  | - | - |  | - | - |  | - | - |  | - | - |
| GRADER, SIZE V, TYPE III (3805-01-337-4624) | A |  | - | - | - | 0.312 | 32 | 9.984 | 0.203 | 21 | 4.263 | 0.203 | 6 | 1.218 | 0.203 | 10 | 2.031 | 0.203 | 16 | 3.249 |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | - |  | 32 | 9.984 |  | 21 | 4.263 |  | 6 | 1.218 |  | 10 | 2.031 |  | 16 | 3.249 |


|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Date: February 2020 <br> Aggregated Items Title: <br> Base Maintenance Support Vehicles |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3080F / 02 / 6 |  |  |  |  |  |  |  | P-1 Line Item Number / Title: <br> 826990 / Base Maintenance Support Vehicles |  |  |  |  |  |  | $\begin{array}{\|l\|} \mathrm{A} c \\ \mathrm{~B} \end{array}$ |  |  |  |  |  |
|  |  |  |  | ior Years |  | FY 2019 |  |  | FY 2020 |  |  | FY 2021 Base |  |  | FY 2021 OCO |  |  | FY 2021 Total |  |  |
| Item Number / Title [DODIC] | $\begin{array}{\|l\|} \hline \text { ID } \\ \mathrm{CD} \end{array}$ | $\begin{array}{\|l} \text { MDAP/ } \\ \text { MAIS } \\ \text { code } \end{array}$ | 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 (\$ M) | Unit Cost (\$M) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | $\begin{aligned} & \text { Total } \\ & \text { Cost } \end{aligned}$ $(\$ \mathrm{M})$ | Unit Cost <br> (\$ 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) |
| DISTRIBUTOR WATER TRAILER (3825-00-570-3417) | A |  | - |  | . | - | - | . | - | . |  | 0.164 | 1 | 0.164 | - | - | . | 0.164 | 1 | 0.164 |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | - |  | - | - |  | - | - |  | 1 | 0.164 |  | - | - |  | 1 | 0.164 |
| SEWER TRK TANDEM AXLE (2320-01-500-5501) | A |  | - | - | - | 0.415 | 3 | 1.245 | 0.423 | 2 | 0.846 | 0.423 | 2 | 0.846 | - | - | - | 0.423 | 2 | 0.846 |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | - |  | 3 | 1.245 |  | 2 | 0.846 |  | 2 | 0.846 |  | - | - |  | 2 | 0.846 |
| WATER WAGON (3825-01-539-6813) | A |  | - | - | - | 0.112 | 11 | 1.237 | - | - | - | - | - | - | - | - | - | - | - | - |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | - |  | 11 | 1.237 |  | - | - |  | - | - |  | - | - |  | - | - |
| TLR DITCHING MACH (2330-01-079-4053) | A |  | - | - | - | 0.017 | 3 | 0.052 | 0.021 | 5 | 0.105 | 0.021 | 5 | 0.105 | - | - | - | 0.021 | 5 | 0.105 |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | - |  | 3 | 0.052 |  | 3 | 0.063 |  | 2 | 0.042 |  | - | - |  | 2 | 0.042 |
| AFNG |  |  |  | - | - |  | - | - |  | 1 | 0.021 |  | 3 | 0.063 |  | - | - |  | 3 | 0.063 |
| AFR |  |  |  | - | - |  | - | - |  | 1 | 0.021 |  | - | - |  | - | - |  | - | - |
| WATER DISTR TRUCK (3825-01-539-3764) | A |  | - | . | - | - | . | . | - | - | - | 0.496 | 1 | 0.496 | - | . | . | 0.496 | 1 | 0.496 |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | - |  | - | - |  | - | - |  | 1 | 0.496 |  | - | - |  | 1 | 0.496 |
| 7.5 T CRANE (3810-01-106-3991) | A |  | - | - | - | - | . | - | 0.307 | ${ }^{23}$ | 7.050 | 0.219 | 4 | 0.874 | - | - | - | 0.219 | 4 | 0.874 |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | - |  | $\cdot$ | - |  | 23 | 7.050 |  | 4 | 0.874 |  | - | - |  | 4 | 0.874 |
| TLR MANHOLE CLNR (2330-00-307-3295) | A |  | - | - | - | 0.055 | 5 | 0.275 | 0.105 | 2 | 0.209 | 0.105 | 2 | 0.209 | - | - | - | 0.105 | 2 | 0.209 |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | - |  | 5 | 0.275 |  | 2 | 0.209 |  | 2 | 0.209 |  | - | - |  | 2 | 0.209 |
| TRUCK, DUMP (2320-01-344-9282) | A |  | - | - | - | 0.139 | 86 | 11.976 | 0.143 | 22 | 3.153 | 0.143 | 15 | 2.145 | 0.143 | 20 | 2.866 | 0.143 | 35 | 5.011 |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | - |  | 86 | 11.976 |  | 22 | 3.153 |  | 12 | 1.716 |  | 20 | 2.866 |  | 32 | 4.582 |
| AFNG |  |  |  | - | - |  | - | - |  | - | - |  | 2 | 0.286 |  | - | - |  | 2 | 0.286 |
| AFR |  |  |  | - | - |  | - | - |  | - | - |  | 1 | 0.143 |  | - | - |  | 1 | 0.143 |


| Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2021 Air Force |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Date: February 2020 |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity:$\text { 3080F / } 02 \text { / } 6$ |  |  |  |  |  |  |  | P-1 Line Item Number / Title: <br> 826990 / Base Maintenance Support Vehicles |  |  |  |  |  |  |  | Aggregated Items Title: <br> Base Maintenance Support Vehicles |  |  |  |  |
|  | ID | MDAP/ MAIS Code | Prior Years |  |  | FY 2019 |  |  | FY 2020 |  |  | FY 2021 Base |  |  | FY 2021 OCO |  |  | FY 2021 Total |  |  |
| Item Number / <br> Title [DODIC] |  |  | 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 (\$ M) | Unit Cost (\$ M) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost (\$ M) |
| DRIER-MXR, BIT CONCR (3895-01-624-1958) | A |  | - | - | - | - | - | - | 0.155 | 20 | 3.100 | 0.148 | 9 | 1.332 | - | - | - | 0.148 | 9 | 1.332 |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | - |  | - | - |  | 20 | 3.100 |  | 9 | 1.332 |  | - | - |  | 9 | 1.332 |
| 2000 GAL WATER TANK (3825-01-624-1963) | A |  | - | - | - | 0.067 | 11 | 0.734 | 0.066 | 24 | 1.591 | 0.070 | 12 | 0.840 | 0.069 | 20 | 1.390 | 0.070 | 32 | 2.230 |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | - |  | 11 | 0.734 |  | 24 | 1.591 |  | 12 | 0.840 |  | 20 | 1.390 |  | 32 | 2.230 |
| MIXER, BITUMINOUS MA (3895-01-627-1341) | A |  | - | - | - | 0.205 | 11 | 2.256 | 0.203 | 10 | 2.033 | 0.205 | 15 | 3.082 | - | - | - | 0.205 | 15 | 3.082 |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | - |  | 11 | 2.256 |  | 10 | 2.033 |  | 15 | 3.082 |  | - | - |  | 15 | 3.082 |
| $\begin{aligned} & \text { GRADER SZ } 6 \\ & (3805-01-373-5314) \end{aligned}$ | A |  | - | - | - | - | - | - | - | - | - | 0.277 | 1 | 0.277 | - | - | - | 0.277 | 1 | 0.277 |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | - |  | - | - |  | - | - |  | 1 | 0.277 |  | - | - |  | 1 | 0.277 |
| MIXER CON TRLR MTD (3895-01-005-5422) | A |  | - | - | - | 0.286 | 10 | 2.861 | - | - | - | 0.286 | 2 | 0.572 | - | - | - | 0.286 | 2 | 0.572 |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | - |  | 9 | 2.575 |  | - | - |  | 2 | 0.572 |  | - | - |  | 2 | 0.572 |
| AFNG |  |  |  | - | - |  | 1 | 0.286 |  | - | - |  | - | - |  | - | - |  | - | - |
| COMPACT EXCAVATOR CRAWLER (3805-01-565-8767) | A |  | - | - | - | 0.053 | 4 | 0.210 | 0.056 | 1 | 0.056 | 0.056 | 2 | 0.112 | - | - | - | 0.056 | 2 | 0.112 |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | - |  | 4 | 0.210 |  | 1 | 0.056 |  | 2 | 0.112 |  | - | - |  | 2 | 0.112 |
| SCRAPPER MOTORIZED 18CY (3805-00-234-9778) | A |  | - | - | - | 0.704 | 4 | 2.815 | 0.759 | 2 | 1.518 | 0.759 | 2 | 1.518 | - | - | - | 0.759 | 2 | 1.518 |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | - |  | 4 | 2.815 |  | 2 | 1.518 |  | 2 | 1.518 |  | - | - |  | 2 | 1.518 |
| CRUSH- <br> SCREEN 150TH <br> (3820-00-060-1841) | A |  | - | - | - | - | - | - | - | - | - | 1.580 | 2 | 3.159 | - | - | - | 1.580 | 2 | 3.159 |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | - |  | - | - |  | - | - |  | 2 | 3.159 |  | - | - |  | 2 | 3.159 |
| $\begin{aligned} & \hline \text { T7 DOZER } \\ & \text { (2410-00-816-5091) } \end{aligned}$ | A |  | - | - | - | 0.488 | 5 | 2.441 | 0.532 | 3 | 1.597 | - | - | - | - | - | - | - | - | - |


| Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2021 Air Force |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Date: February 2020 |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity:$\text { 3080F / } 02 \text { / } 6$ |  |  |  |  |  |  |  | P-1 Line Item Number / Title: <br> 826990 / Base Maintenance Support Vehicles |  |  |  |  |  |  |  | Aggregated Items Title: Base Maintenance Support Vehicles |  |  |  |  |
|  | $\begin{aligned} & \mathrm{ID} \\ & \mathrm{CD} \end{aligned}$ |  | Prior Years |  |  | FY 2019 |  |  | FY 2020 |  |  | FY 2021 Base |  |  | FY 2021 OCO |  |  | FY 2021 Total |  |  |
| Item Number / <br> Title [DODIC] |  | 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 (\$ 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) |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | - |  | 5 | 2.441 |  | 2 | 1.065 |  | - | - |  | - | - |  | - | - |
| AFNG |  |  |  | - | - |  | - | - |  | 1 | 0.532 |  | - | - |  | - | - |  | - | - |
| LOADER SKID STEER TRACK MTD (3805-00-278-1245) | A |  | - | - | - | 0.062 | 5 | 0.309 | 0.075 | 3 | 0.225 | 0.075 | 4 | 0.300 | - | - | - | 0.075 | 4 | 0.300 |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | - |  | 5 | 0.309 |  | 3 | 0.225 |  | 4 | 0.300 |  | - | - |  | 4 | 0.300 |
| CR WHLD HYD 15T (3810-00-329-4154) | A |  | - | - | - | 0.343 | 4 | 1.372 | 0.308 | 1 | 0.308 | - | - | - | - | - | - | - | - | - |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | - |  | 4 | 1.372 |  | 1 | 0.308 |  | - | - |  | - | - |  | - | - |
| SEWER TRK SINGLE AXLE (2320-01-501-8524) | A |  | - | - | - | - | - | - | - | - | - | 0.403 | 1 | 0.403 | - | - | - | 0.403 | 1 | 0.403 |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | - |  | - | - |  | - | - |  | 1 | 0.403 |  | - | - |  | 1 | 0.403 |
| CRANE <br> HYDRAULIC 15 T (3810-01-485-8693) | A |  | - | - | - | - | - | - | - | - | - | 0.230 | 1 | 0.230 | - | - | - | 0.230 | 1 | 0.230 |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | - |  | - | - |  | - | - |  | 1 | 0.230 |  | - | - |  | 1 | 0.230 |
| CRANE TRK MTD 28 TON (3810-001-506-6637) | A |  | - | - | - | - | - | - | - | - | - | 0.443 | 1 | 0.443 | - | - | - | 0.443 | 1 | 0.443 |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | - |  | - | - |  | - | - |  | 1 | 0.443 |  | - | - |  | 1 | 0.443 |
| PAVEMENT PROFILER (3895-01-108-3606) | A |  | - | - | - | - | - | - | - | - | - | 0.624 | 1 | 0.624 | - | - | - | 0.624 | 1 | 0.624 |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | - |  | - | - |  | - | - |  | 1 | 0.624 |  | - | - |  | 1 | 0.624 |
| TRUCK, WASTE WATER TANKER (2320-01-627-2536) | A |  | - | - | - | 0.336 | 9 | 3.020 | - | - | - | 0.336 | 1 | 0.336 | - | - | - | 0.336 | 1 | 0.336 |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | - |  | 8 | 2.684 |  | - | - |  | 1 | 0.336 |  | - | - |  | 1 | 0.336 |
| AFNG |  |  |  | - | - |  | 1 | 0.336 |  | - | - |  | - | - |  | - | - |  | - | - |
| ROLLER MOTORIZED (3895-01-603-8654) | A |  | - | - | - | 0.029 | 11 | 0.319 | 0.029 | 20 | 0.575 | - | - | . | - | - | . | - | - | - |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

## UNCLASSIFIED

| Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2021 Air Force |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Date: February 2020 |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity:$\text { 3080F / } 02 \text { / } 6$ |  |  |  |  |  |  |  | P-1 Line Item Number / Title: <br> 826990 / Base Maintenance Support Vehicles |  |  |  |  |  |  |  | Aggregated Items Title: <br> Base Maintenance Support Vehicles |  |  |  |  |
| Item Number / Title [DODIC] | $\begin{aligned} & \text { ID } \\ & \text { CD } \end{aligned}$ | mDAP/ MAIS Code | Prior Years |  |  | FY 2019 |  |  | FY 2020 |  |  | FY 2021 Base |  |  | FY 2021 OCO |  |  | FY 2021 Total |  |  |
|  |  |  | 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) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \\ \hline \end{gathered}$ | 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) |
| AF |  |  |  | - | - |  | 11 | 0.319 |  | 20 | 0.575 |  | - | - |  | - | - |  | - | - |
| DUMP TRUCK 6X4 55K GVW (2320-01-058-5725) | A |  | - | - | - | 0.134 | 16 | 2.144 | 0.132 | 17 | 2.250 | 0.132 | 1 | 0.132 | - | - | - | 0.132 | 1 | 0.132 |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | - |  | 15 | 2.010 |  | 17 | 2.250 |  | 1 | 0.132 |  | - | - |  | 1 | 0.132 |
| AFNG |  |  |  | - | - |  | 1 | 0.134 |  | - | - |  | - | - |  | - | - |  | - | - |
| EXCAVATOR CRAWLER MTD (3805-01-058-3562) | A |  | - | - | - | 0.178 | 5 | 0.889 | 0.250 | 5 | 1.250 | 0.250 | 1 | 0.250 | - | - | - | 0.250 | 1 | 0.250 |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | - |  | 5 | 0.889 |  | 5 | 1.250 |  | 1 | 0.250 |  | - | - |  | 1 | 0.250 |
| COMPACT TRACK LOADER (3805-01-603-8653) | A |  | - | - | - | - | - | - | 0.126 | 25 | 3.150 | 0.127 | 8 | 1.016 | 0.127 | 25 | 3.170 | 0.127 | 33 | 4.186 |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | - |  | - | - |  | 25 | 3.150 |  | 8 | 1.016 |  | 25 | 3.170 |  | 33 | 4.186 |
| COMPACT SHEEPS FOOT (3805-01-359-7626) | A |  | - | - | - | - | - | - | 0.461 | 2 | 0.921 | 0.461 | 1 | 0.461 | - | - | - | 0.461 | 1 | 0.461 |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | - |  | - | - |  | 2 | 0.921 |  | 1 | 0.461 |  | - | - |  | 1 | 0.461 |
| DRILL ROCK (3820-00-00-050-9964) | A |  | - | - | - | 0.476 | 5 | 2.381 | - | - | - | - | - | - | - | - | - | - | - | - |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | - |  | 5 | 2.381 |  | - | - |  | - | - |  | - | - |  | - | - |
| TRAC WHLD IND 4WD 85HP (2420-01-205-8579) | A |  | - | - | - | - | - | - | - | - | - | 0.076 | 2 | 0.152 | - | - | - | 0.076 | 2 | 0.152 |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | - |  | - | $\checkmark$ |  | - | - |  | 2 | 0.152 |  | - | - |  | 2 | 0.152 |
| $\begin{aligned} & \hline \text { 50T CRANE } \\ & (3810-01-079-8358) \end{aligned}$ | A |  | - | - | - | - | - | - | 0.439 | 9 | 3.947 | 0.434 | 1 | 0.434 | - | - | - | 0.434 | 1 | 0.434 |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | - |  | - | - |  | 9 | 3.947 |  | 1 | 0.434 |  | - | - |  | 1 | 0.434 |
| PMA OTHER GOVERNMENT COSTS | A |  | - | - | - | - | - | 0.017 | - | - | 0.012 | - | - | 0.011 | - | - | 0.006 | - | - | 0.017 |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | - |  | - | 0.017 |  | - | 0.012 |  | - | 0.011 |  | - | 0.006 |  | - | 0.017 |
| Subtotal: Uncategorized |  |  | - | - | - | - | - | 114.603 | - | - | 70.013 | - | - | 43.095 | - | - | 20.653 | - | - | 63.748 |
| Total |  |  | - | - | - | - | - | 114.603 | - | - | 70.013 | - | - | 43.095 | - | - | 20.653 | - | - | 63.748 |

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## UNCLASSIFIED

| Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2021 Air Force | Date: February 2020 |  |
| :--- | :--- | :--- |
| Appropriation / Budget Activity / Budget Sub Activity: | P-1 Line Item Number / Title: <br> $826990 ~ / ~ B a s e ~ M a i n t e n a n c e ~ S u p p o r t ~ V e h i c l e s ~$ | Aggregated Items Title: <br> 3080F / 02 / 6 |
| Note: Subtotals or Totals in this Exhibit P-40a may not be exact or sum exactly, due to rounding. <br> Remarks: <br> Based on AF Mission changes and/or AF Mission priorities, NSNs and/or quantities may change during year of execution. <br> UNIT COSTS FOR FY21 ARE SUBJECT TO CHANGE. <br> PMA OTHER GOVERNMENT COSTS: This line supports the operation of the program office in its management and oversight role via travel, procurement of supplies and studies. |  |  |

PMA OTHER GOVERNMENT COSTS: This line supports the operation of the program office in its management and oversight role via travel, procurement of supplies and studies

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| Appropriation / Budget Activity / Budget Sub Activity: |
| :--- |
| 3080F: Other Procurement, Air Force / BA 03: Electronics and Telecommunications |
| Equip / BSA 1: Comm Security Equipment(Comsec) |

## P-1 Line Item Number / Title: <br> 831010 / Comsec Equipment

 Equip / BSA 1: Comm Security Equipment(Comsec)| ID Code (A=Service Ready, B=Not Service Ready): A | Program Elements for Code B Items: 0207448F | Other Related Program Elements: N/A |
| :---: | :---: | :---: |

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

| Resource Summary | Prior <br> Years | FY 2019 | FY 2020 | $\text { FY } 2021$ <br> Base | $\begin{gathered} \text { FY } 2021 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \hline \text { FY } 2021 \\ \text { Total } \end{gathered}$ | FY 2022 | FY 2023 | FY 2024 | FY 2025 | To Complete | Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Procurement Quantity (Units in Each) | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Cost (\$ in Millions) | 0.000 | 104.410 | 81.461 | 54.864 | - | 54.864 | 56.740 | 57.731 | 58.763 | 59.839 | - | 473.808 |
| Less PY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Net Procurement (P-1) (\$ in Millions) | 0.000 | 104.410 | 81.461 | 54.864 | - | 54.864 | 56.740 | 57.731 | 58.763 | 59.839 | - | 473.808 |
| Plus CY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Total Obligation Authority (\$ in Millions) | 0.000 | 104.410 | 81.461 | 54.864 | - | 54.864 | 56.740 | 57.731 | 58.763 | 59.839 | - | 473.808 |
| (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:

These programs support Cyberspace Activities.
PE 0208064F AF Operational HQ-Cyber/Cyberspace Command and Control Mission System (C3MS)
Provides the AFCYBER Commander with hardware and software tools necessary to effectively and efficiently plan, monitor, and execute missions in the cyber domain. This includes development and dissemination of Cyberspace Tasking Orders to ensure commander's intent is supported through the application of cyber forces using the latest intelligence. C3MS provides a common operational picture to maintain cyberspace threat activities and integrates cyberspace indications and warnings, analysis, and other actionable intelligence products into overall situational awareness, planning, and execution. Beginning in Fiscal Year 2021 Other Procurement Funding realigned from WSC 831010 Comm Security Equipment (Comsec) to WSC 834320 C3 Countermeasures for clarity in reporting. Funding in this exhibit contained in PE 0208064F

PE 0208087F DISTRIBUTED CYBER WARFARE OPERATIONS (DCWO)
Provides for the support and deployment of cyberspace solutions in the form of material and non-material cyberspace network attack tools and exploits for DCWO portfolio to include but not limited to AF Offensive Cyberspace Operations (OCO) units, the Cyber Mission Forces, Combatant Commands (COCOMs), and other authorized agencies. Funding procures specialized hardware/software necessary for real time deployment, exploit identification, tool development, and testing in an environment simulating real-world operational infrastructures and enclaves. Funding also is used for the procurement of the AF cyber test and training range, used for workforce training by the 318th Cyber Operations Group under the 67th Cyber Wing. Beginning in Fiscal Year 2021, procurement funding realigned to WSC 834320 C3 Countermeasures for clarity in reporting.

## PE 0208088F AF DEFENSIVE CYBERSPACE OPERATIONS (DCO)

Provides defensive counter cyberspace capability that protects the AFNet and DoD network enclaves, to include their associated computer systems, software applications and sensitive operational information against unauthorized intrusion, corruption, and/or destruction. In accordance with Section 1815 of the FY 2008 National Defense Authorization Act (P.L. 110-181), this item is necessary for use by the active and reserve components of the Armed Forces for homeland defense missions, domestic emergency responses, and providing military support to civil authorities. Beginning in Fiscal Year 2021 Other Procurement Funding realigned from WSC 831010 Comm Security Equipment (Comsec) and WSC 835080 AFNET to WSC 834320 C3 Countermeasures for clarity in reporting.

| Appropriation / Budget Activity / Budget Sub Activity: | P-1 Line Item Number / Title: |
| :--- | :--- |
| 3080F: Other Procurement, Air Force / BA 03: Electronics and Telecommunications |  |
| Equip / BSA 1: Comm Security Equipment(Comsec) | 831010 / Comsec Equipment | Equip / BSA 1: Comm Security Equipment(Comsec)



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

## PE 0303135F PUBLIC KEY INFRASTRUCTURE (PKI)

PKI provides identity management (IDM) services as part of the DOD Identity Credential and Access Management (ICAM) program to support warfighter requirements. Air Force IDM programs align with DoD ICAM efforts and support DoD ICAM Roadmap and Strategic Plan and the AF ICAM Technology Roadmap. PKI provides the fundamental framework implemented within DoD to ensure information system's security. It provides the capability to attach digital signatures to electronic documents for IDM, to encrypt and decrypt electronic documents for secure transmission, and to support physical and logical access control solutions. PKI-enabled applications afford confidentiality and authentication services to communications and/or network transactions, as well as verification of the data integrity and non-repudiation of those transactions. PKI is one of many security solutions used to protect information and provide attributes enabling authorization access to critical resources in the Air Force Information Networks (AFIN) and used concurrently with other solutions. PE also includes Air Force Directory Service (AFDS), which is the single source of consolidated authoritative IDM enabling secure smart card logon to AF clients and applications. AFDS ensures that AF user identities are common and synchronized across directories and information stores of various networks, systems, and applications. AFDS eliminates the disparity of maintaining stove-piped systems and using directory technology, alleviates latency associated with the sharing/replication of identity data attributes. AFDS supports delivery of an enterprise security service and backbone for AF networks, by providing AF user credentials to the AF Network Enterprise and AF system applications.

## PE 0303140F INFORMATION SYSTEMS SECURITY PROGRAM (ISSP):

This program funds procurement of Communications Security (COMSEC) equipment, ancillary encryption/decryption devices, and related equipment to ensure confidentiality, integrity, and availability and enable the secure transport of information. ISSP delivers on rising national, DoD, and AF priorities to address cybersecurity threats and increasing warfighter dependence on cyberspace. AF and DoD require the capability to collect, process, and disseminate an uninterrupted flow of information while denying an adversary the ability to intercept, collect, destroy, interpret, or manipulate our information flows. Secure communication allows the DoD to achieve and maintain decision superiority, the key to successful application of the military instrument of national power in modern, high-tempo, full spectrum operations. AF COMSEC equipment protects information such as, warfighter positions, mission planning, target strikes, commander's orders, intelligence, force strength, and force readiness. This COMSEC program ensures adversaries cannot interpret, manipulate, or destroy information. When an adversary is capable of interpretation, manipulation, or destruction of the information used by the warfighter, DoD military forces may suffer devastating mission degradation that can result in loss of life and resources and/or exceptionally grave damage to national security. The COMSEC program includes equipment upgrades and replacements which incorporate the best technologies mandated to provide mission critical warfighter secure voice and data communications in tactical, strategic, and network applications for our globallydeployed COMSEC crypto assets supporting both AF and DoD missions. Details of the assets are included in each section's narrative.

Under Cryptographic Modernization 2 (CM2) effort - IFF Mode 5: Produce modified IFF cryptographic components. The permanent modification of these devices are required to address produce-ability and algorithm re-programmability mandated by the National Security Agency (NSA) and the 2019 Chairman of the Joint Chiefs of Staff Notice (CJCSN) 6510

Funding for this exhibit contained in PE 0208064F; PE 0208087F; PE 0208088F; PE 0303135F; PE 0303140F.
Appropriation / Budget Activity / Budget Sub Activity:
3080F: Other Procurement, Air Force / BA 03: Electronics and Telecommunications
Equip / BSA 1: Comm Security Equipment(Comsec)

## P-1 Line Item Number / Title: <br> 831010 / Comsec Equipment

ID Code (A=Service Ready, B=Not Service Ready): A
Program Elements for Code B Items: 0207448F
Other Related Program Elements: N/A
Line Item MDAP/MAIS Code: N/A

| Exhibits Schedule |  |  |  |  | Prior Years | FY 2019 | FY 2020 | FY 2021 Base | FY 2021 OCO | FY 2021 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 | OPERATIONAL HQ - CYBER |  | B |  | - 1 - | - /11.705 | - 15.113 | - 10.000 | - 1 - | - 10.000 |
| P-40a | Distributed Cyber Warfare Operations |  |  |  | - 1 - | - 10.070 | - 12.790 | - 10.000 | -1 | - 10.000 |
| P-5 | AF Defensive Cyberspace Operations | P-5a | A |  | - 1 - | - 132.465 | - /16.796 | - 10.000 | - 1 | - 10.000 |
| P-5 | Public Key Infrastructure (PKI) |  | A |  | - 1 | - 14.165 | - 14.160 | - 14.230 | - 1 - | - 14.230 |
| P-5 | Information Systems Security Program | P-5a | A |  | - 1 - | - 156.005 | - $/ 52.602$ | - 150.634 | - 1 | - 150.634 |
| P-40 | Total Gross/Weapon System Cost |  |  |  | - 10.000 | - / 104.410 | - 181.461 | - 154.864 | - 1 - | - 154.864 |

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

## Justification:

These programs support Cyberspace Activities.
PE 0208064F AIR FORCE Operational HQ-Cyber/Cyberspace Command and Control Mission System (C3MS)

1. Beginning in Fiscal Year 2021 Other Procurement Funding realigned from WSC 831010 Comm Security Equipment (Comsec) to WSC 834320 C3 Countermeasures for clarity in reporting

PE 0208087F DISTRIBUTED CYBER WARFARE OPERATIONS (DCWO)
 information please contact AFLCMC/HNCO, 210-925-6614. Beginning in Fiscal Year 2021, procurement funding realigned to WSC 834320 C3 Countermeasures for clarity in reporting.

PE 0208088F AF DEFENSIVE CYBERSPACE OPERATIONS
 834320 C3 Countermeasures for clarity in reporting.

PE 0303135F PUBLIC KEY INFRASTRUCTURE (PKI):









Exhibit P-40, Budget Line Item Justification: PB 2021 Air Force
Date: February 2020

| Appropriation / Budget Activity / Budget Sub Activity: |
| :--- |
| 3080F: Other Procurement, Air Force / BA 03: Electronics and Telecommunications |
| Equip / BSA 1: Comm Security Equipment(Comsec) |

## P-1 Line Item Number / Title:

831010 / Comsec Equipment

Program Elements for Code B Items: 0207448F
Other Related Program Elements: N/A

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

Access Card (CAC)) is undergoing a gradual evolution towards a higher assurance token. Additionally, Homeland Security Presidential Directive-12 (HSPD-12) mandates a common identification card across the Federal Government. Based on the HSPD-12 requirements, the National Institute of Standards and Technology (NIST) developed Federal Information Processing Standard 201 (FIPS 201) which adds security requirements to the identification card.
2. AIR FORCE DIRECTORY SERVICES (AFDS): AFDS is the single source of consolidated authoritative identity management data that enables secure smart card logon to Air Force clients and applications, facilitating global net-centric operations. As part of the DOD/AF Identity Credential Access Management (ICAM) section, AFDS capabilities include identity data directory (IDD), automated AFNET account provisioning and exchange contact information synchronization (ECIS) also known as GAL synchronization. AFDS ensures that AF user identities are common and synchronized across directories and information stores of various networks, systems, and applications. AFDS eliminates the disparity of maintaining stove-piped systems and using directory technology, alleviates latency associated with the sharing/ replication of identity data atributes. AFDS supports delivery of an enterprise security service and backbone for AF networks (both in-garrison and tactical), by providing AF user credentials to the AF Network Enterprise and AF system applications. AFDS leverages and provides a core meta-directory service that "joins" and synchronizes personal identity data attributes from authoritative AF and DoD repositories for use by all AF systems and applications. Funds will support procurement of identity and credential solutions for mobile platforms and AF systems and applications to meet DoD and AF ICAM requirements as well as procure hardware, software and contractor supported upgrades. FY21 funds will procure hardware, software, and support upgrades.

PE 0303140F INFORMATION SYSTEMS SECURITY PROGRAM:

1. AIR AND GROUND (A\&G) COMSEC PROGRAM: The Air and Ground COMSEC Program procures and supports a wide range of secure encryption products supporting AF, inter-service, and various DoD agency customers; and includes items approved under the National Security Agency (NSA) Commercial COMSEC Evaluation Program (CCEP) such as KIV-7M, Tactical Fast Lane (TACLANE), and other High Assurance Internet Protocol Encryptor (HAIPE) devices. The program includes equipment upgrades and replacements that incorporate state-of-the-art technologies for mission-critical warfighter secure voice and data communications. The program provides needed upgrades to encryption devices in FY21 to comply with NSA's Advanced Cryptographic Capabilities (ACC) directives. The program supports tactical, strategic, and network applications for globally deployed cryptologic assets supporting AF and DoD. Supported systems fall within AF Information Systems Security and Information Assurance arenas. Funding for this effort is in PE 0303140F.
a. IN-LINE NETWORK ENCRYPTORS (INE): Previously called Network Encryption Systems. FY21 funding fields the new INE required to maintain the confidentiality, data integrity, and non-repudiation of classified communications. INEs are the mainstay for securing communications used in classified terrestrial and airborne communications networks. The new INEs feature robust data encryption improvements included in the HAIPE Interoperability Specification (HAIPE IS) as well as Internet Protocol (IP) Version 6 capability that will improve security and expand the bandwidth of USAF secure IP networks.
b. LINK ENCRYPTION FAMILY (LEF): Provides for the replacement of the legacy LEF with new more secure crypto modernization compliant LEF devices. The LEF provides near real-time secure communications for national and command level decision making authorities up to TOP SECRET SCI. The new LEF devices include more robust encryption algorithms, as well as dual-channel, increased bandwidth capability, and reprogramability. NSA has issued classified instructions regarding the use of specific LEF devices. No FY21 funding requested.
c. AIR AND GROUND COMSEC CONSOLIDATED: Several requirements have been combined into one line: Secure Telephones, COMSEC Acquisition Reform (CAR), Peculiar Support Equipment, Secure Communications Voice/Data, Embedded Encryption Devices, and Telemetry Encryption Devices. FY21 funds procure secure voice/data equipment, latest generation Tier 3 devices (such as SKLs/NGLDMs/TKLs), DoD Type 1 COMSEC equipment and commercial cryptography products, testing and support equipment, embedded COMSEC modules, and telemetry devices and Link-16. The Air and Ground COMSEC line is an aggregation of numerous items. Each year the types and quantities of items utilized to meet requirements vary; an average unit cost is based on number/type of units planned for purchase.
2. CRYPTOGRAPHIC MODERNIZATION (CM): The DoD is transforming its existing operational capabilities to realize a seamless Joint network of information and engagement grids that securely link sensors, command and control cells, and tactical units to support current and future warfighting capabilities. This includes cryptographic devices that are more robust, modular, scalable, capable, net-centric, and durable-allowing more effective and efficient performance including reduced inventory, expanded data rates, simplified upgrades, reduced costs, and ensured Global Information Grid (GIG) compatibility. The GIG requires a transformed cryptographic inventory. The DoD Cryptographic Modernization (CM) Initiative delivers that inventory, ensuring a strong security posture for national security and tactical communications systems by providing transparent cryptographic capabilities consistent with operational imperatives, NSA mandates, and mission environments. The future inventory will provide security devices that ease logistics, support Joint and coalition interoperability, enable network-centric and transparent key/equipment management, and allow effective future upgrades. These CM programs enable information dominance by developing and procuring communications security devices that deter and deny known and emerging threats, while accommodating significantly increased bandwidths and processing speeds, and without

## Appropriation / Budget Activity / Budget Sub Activity: <br> 3080F: Other Procurement, Air Force / BA 03: Electronics and Telecommunications Equip / BSA 1: Comm Security Equipment(Comsec)

ID Code (A=Service Ready, B=Not Service Ready): A
Program Elements for Code B Items: 0207448F
Other Related Program Elements: N/A

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




 in PE 0303140F


 CYSS/CYZ AF Crypto requirements office for any platform requirement changes that drive procurement actions.
(1) KIV-78 DEVICES: No FY21 procurements are required.
(2) KIV-77 DEVICES: No FY21 procurements are required.


 ARC-234. The VACM Remote Control Unit (RCU) project is a permanent sustainment modification effort that will augment and replace legacy RCU inventory.

 reprogrammable hardware and modern crypto algorithms. The upgraded BBIOs will be installed/modified into the ARC-234 radios.
 airborne, ground and mobile platforms.
 fixes existing sustainment challenges.

 NSA information assurance (IA) security design guidance.



 to add/remove users as the tactical situation dictates.

FY21 Plans:
(1) Complete Full Rate Production (FRP) option activities

## Appropriation / Budget Activity / Budget Sub Activity:

3080F: Other Procurement, Air Force / BA 03: Electronics and Telecommunications Equip / BSA 1: Comm Security Equipment(Comsec)
ID Code (A=Service Ready, B=Not Service Ready): A
Program Elements for Code B Items: 0207448F
Other Related Program Elements: N/A

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

(2) Provide remaining FRP units to MC Users
(3) Provide support to MC Users as they integrate MC into their platforms
(4) Prepare IDIQ follow-on contract in support of additional User MC quantity requirements
 activities.


 compatibility with any version of a KG-175D, adding flexibility to host next generation Inline Network Encryptor. No FY21 funding requested.
 GROUND COMSEC CONSOLIDATED section.


 mandates and to field KMI-enabled products that have been under previous years DOD development. Funding for this effort is in program element 0303140F.
 DoD KMI.

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Exhibit P-5, Cost Analysis: PB 2021 Air Force
Appropriation / Budget Activity / Budget Sub Activity: 3080F / 03 / 1
ID Code (A=Service Ready, B=Not Service Ready) : B

| MDAP/MAIS Code: |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Resource Summary | Prior Years | FY 2019 | FY 2020 | FY 2021 Base | FY 2021 OCO | FY 2021 Total |
| Procurement Quantity (Units in Each) | - | - | - | - | - | - |
| Gross/Weapon System Cost (\$ in Millions) | - | 11.705 | 5.113 | 0.000 | - | 0.000 |
| Less PY Advance Procurement (\$ in Millions) | - | - | - | - | - | - |
| Net Procurement (P-1) (\$ in Millions) | - | 11.705 | 5.113 | 0.000 | - | 0.000 |
| Plus CY Advance Procurement (\$ in Millions) | - | - | - | - | - | - |
| Total Obligation Authority (\$ in Millions) | - | 11.705 | 5.113 | 0.000 | - | 0.000 |
| (The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.) |  |  |  |  |  |  |
| Initial Spares (\$ in Millions) | - | - | - | - | - | - |
| Gross/Weapon System Unit Cost (\$ in Millions) | - | - | - | - | - | - |

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

|  | Prior Years |  |  | FY 2019 |  |  | FY 2020 |  |  | FY 2021 Base |  |  | FY 2021 OCO |  |  | FY 2021 Total |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Cost Elements | 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 <br> (\$ M) | 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 <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 - OPERATIONAL HQ - CYBER Cos

## Recurring Cost

| HARDWARE AND COMMERCIAL OFF THE SHELF SOFTWARE | - | - | - | 10.637 | 1 | 10.637 | 5.113 | 1 | 5.113 | - | - | - | - | - | . | - | - |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Subtotal: Recurring Cost | - | - | - | - | - | 10.637 | - | - | 5.113 | - | - | - | - | - | - | - | - |  |


| Subtotal: Recurring |
| :--- |
| Non Recurring Cost |
| TRAINING AND |

TRAINING AND FIELDING Subto
Subtotal: Hardware -
OPERAT: Hardware -
CYBER Cost
Gross/Weapon System
Cost

## Remarks:

Beginning in Fiscal Year 2021 Other Procurement Funding realigned from WSC 831010 Comm Security Equipment (Comsec) to WSC 834320 C3 Countermeasures for clarity in reporting.

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| Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2021 Air Force |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Date: February 2020 <br> Aggregated Items Title: <br> Distributed Cyber Warfare Operations |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3080F / 03/1 |  |  |  |  |  |  | P-1 Line Item Number / Title: 831010 / Comsec Equipment |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  | ior Yea |  | FY 2019 |  |  | FY 2020 |  |  | FY 2021 Base |  |  | FY 2021 OCO |  |  | FY 2021 Total |  |  |
| Item Number / Title [DODIC] |  | $\begin{gathered} \text { Unit Cost } \\ \text { (\$ } \$ 1 \end{gathered}$ | $\underset{(\text { (Each })}{\text { aty }}$ | $\begin{gathered} \text { Total } \\ \text { Tost } \\ \text { ( } \$ \mathrm{SN}) \\ \hline \end{gathered}$ | $\underset{\substack{\text { Unit Cost } \\(S M)}}{ }$ | $\underset{(\text { Each })}{\text { Oty }}$ | $\begin{aligned} & \text { Total } \\ & \text { cost } \\ & (\$ M) \end{aligned}$ | $\begin{gathered} \text { Unit Cost } \\ (\$ M) \end{gathered}$ |  | $\begin{aligned} & \text { Total } \\ & \text { Tost } \\ & \text { C }(\$ M) \\ & \hline \end{aligned}$ | $\begin{gathered} \text { Unit Cost } \\ (\$ M) \\ \hline \end{gathered}$ | $\underset{(\text { Each })}{\text { Qty }}$ | $\begin{aligned} & \text { Total } \\ & \text { Cost } \\ & (\$ M M) \end{aligned}$ | $\begin{aligned} & \text { Unit Cost } \\ & \text { (SM) } \end{aligned}$ | $\underset{(\text { Each })}{\left(E_{1}\right)}$ | $\begin{aligned} & \text { Total } \\ & \text { cost } \\ & \text { ( }(\$ M) \end{aligned}$ | $\begin{gathered} \text { Unit Cost } \\ \text { (SM) } \end{gathered}$ | $\underset{\substack{\text { Qty } \\ \text { (Each) }}}{\text { a }}$ | $\begin{aligned} & \text { Total } \\ & \text { Cost } \\ & (\$ M M) \end{aligned}$ |
| Cyber Workforce Training PE 0208887F |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1. 39 IOS FTU Expansion Equipmen | $\mathrm{t}^{\mathrm{A}}$ |  |  |  | 0.070 |  | 0.070 | ${ }^{2.790}$ |  | 2.790 | - |  | 0.000 | - |  |  | - |  | 0.000 |
| Subtotal: Cyber Workforce Training PE 0208087F |  |  |  |  |  |  | 0.0 |  |  | O | - |  | 0.000 |  |  |  | - |  | 0.000 |
| Note: Subtotals or Totals in this Exhibit $P$-40a may not be exact or sum exactly, due to rounding. <br> Remarks: <br> Funding supports Cyber Workforce Training requirements. <br> - Starting in FY21, procurement funding realigned to WSC 834320 C3 Countermeasures for clarity of reporting. |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

Exhibit P-5, Cost Analysis: PB 2021 Air Force

## Appropriation / Budget Activity / Budget Sub Activity:

 3080F / 03 / 1
## P-1 Line Item Number / Title 831010 / Comsec Equipment

Date: February 2020

## Item Number / Title [DODIC]:

AF Defensive Cyberspace Operations

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

| MDAP/MAIS Code: |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Resource Summary | Prior Years | FY 2019 | FY 2020 | FY 2021 Base | FY 2021 OCO | FY 2021 Total |
| Procurement Quantity (Units in Each) | - | - | - | - | - | - |
| Gross/Weapon System Cost (\$ in Millions) | - | 32.465 | 16.796 | 0.000 | - | 0.000 |
| Less PY Advance Procurement (\$ in Millions) | - | - | - | - | - | - |
| Net Procurement (P-1) (\$ in Millions) | - | 32.465 | 16.796 | 0.000 | - | 0.000 |
| Plus CY Advance Procurement (\$ in Millions) | - | - | - | - | - | - |
| Total Obligation Authority (\$ in Millions) | - | 32.465 | 16.796 | 0.000 | - | 0.000 |
| (The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.) |  |  |  |  |  |  |
| Initial Spares (\$ in Millions) | - | - | - | - | - | - |
| Gross/Weapon System Unit Cost (\$ in Millions) | - | - | - | - | - | - |

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

|  | Prior Years |  |  | FY 2019 |  |  | FY 2020 |  |  | FY 2021 Base |  |  | FY 2021 OCO |  |  | FY 2021 Total |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Cost Elements | 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) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | 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) |
| Hardware - 0208088F COMSEC Cost |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Recurring Cost |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1. Cyberspace Vulnerability Assessment/Hunter ${ }^{(t)}$ | - | - | - | 0.051 | 448 | 23.063 | 0.052 | 58 | 2.997 | - | - | - | - | - | - | - | - | - |
| 2. Computer <br> Security Assistance <br> Program (CSAP) <br> Countermeasures | - | - | - | 0.879 | 5 | 4.393 | 0.894 | 5 | 4.469 | - | - | 0.000 | - | - | - | - | - | 0.000 |
| 3. Cyberspace Defense Analysis | - | - | - | 1.259 | 1 | 1.259 | 1.698 | 1 | 1.698 | - | - | 0.000 | - | - | - | - | - | 0.000 |
| 4. $\mathrm{WSCR}^{(+)}$ | - | - | - | 0.025 | 150 | 3.750 | 0.025 | 300 | 7.632 | - | - | 0.000 | - | - | - | - | - | 0.000 |
| Subtotal: Recurring Cost | - | - | - | - | - | 32.465 | - | - | 16.796 | - | - | 0.000 | - | - | - | - | - | 0.000 |
| Subtotal: Hardware 0208088F COMSEC Cost | - | - | - | - | - | 32.465 | - | - | 16.796 | - | - | 0.000 | - | - | - | - | - | 0.000 |
| Gross/Weapon System Cost | - | - | - | - | - | 32.465 | - | - | 16.796 | - | - | 0.000 | - | - | - | - | - | 0.000 |

## Remarks:

 weapon system being procured.
${ }^{(\dagger)}$ indicates the presence of a P-5a

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| Exhibit P-5a, Procurement History and Planning: PB 2021 Air Force |  |  |  |  |  |  |  | Date: February 2020 |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3080F / 03 / 1 |  |  |  | P-1 Line Item Number / Title: 831010 / Comsec Equipment |  |  |  | Item Number / Title [DODIC]: <br> AF Defensive Cyberspace Operations |  |  |  |  |
| 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 |
| 1. Cyberspace Vulnerability Assessment/Hunter |  | 2019 | Multiple / Various | Various | CPSG | Jul 2019 | Sep 2019 | 448 | 0.051 | Y |  |  |
| 1. Cyberspace Vulnerability Assessment/Hunter |  | 2020 | Multiple / Various | Various | CPSG | Jul 2019 | Sep 2020 | 58 | 0.052 | Y |  |  |
| 4. WSCR |  | 2019 | Multiple / Various | Various | CPSG | Jan 2019 | Sep 2019 | 150 | 0.025 | Y |  |  |
| 4. WSCR |  | 2020 | Multiple / Various | Various | CPSG | Jan 2020 | Sep 2020 | 300 | 0.025 | Y |  |  |

Exhibit P-5, Cost Analysis: PB 2021 Air Force

## Appropriation / Budget Activity / Budget Sub Activity:

 3080F / 03 / 1
## P-1 Line Item Number / Title 831010 / Comsec Equipment

Date: February 2020
Item Number / Title [DODIC]:
Public Key Infrastructure (PKI)

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

| Resource Summary | Prior Years | FY 2019 | FY 2020 | FY 2021 Base | FY 2021 OCO | FY 2021 Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Procurement Quantity (Units in Each) | - | - | - | - | - | - |
| Gross/Weapon System Cost (\$ in Millions) | - | 4.165 | 4.160 | 4.230 | - | 4.230 |
| Less PY Advance Procurement (\$ in Millions) | - | - | - | - | - | - |
| Net Procurement (P-1) (\$ in Millions) | - | 4.165 | 4.160 | 4.230 | - | 4.230 |
| Plus CY Advance Procurement (\$ in Millions) | - | - | - | - | - | - |
| Total Obligation Authority (\$ in Millions) | - | 4.165 | 4.160 | 4.230 | - | 4.230 |
| (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 2019 |  |  | FY 2020 |  |  | FY 2021 Base |  |  | FY 2021 OCO |  |  | FY 2021 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) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost <br> (\$ M) | Unit Cost <br> (\$ M) | $\begin{aligned} & \text { Qty } \\ & \text { Qach) } \end{aligned}$ | Total Cost (\$ M) | Unit Cost (\$ M) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | Total Cost <br> (\$ M) |
| Hardware - 0303135F COMSEC Cost |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Recurring Cost |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1. EVOLUTIONARY PKI END USER EQUIPMENT | - | - | - | 0.000 | 69,740 | 3.462 | 0.000 | 69,398 | 3.445 | 0.000 | 20,000 | 3.233 | - | - | - | 0.000 | 20,000 | 3.233 |
| 2. AIR FORCE DIRECTORY SERVICES | - | - | - | 0.141 | 5 | 0.703 | 0.143 | 5 | 0.715 | 0.145 | 5 | 0.727 | - | - | - | 0.145 | 5 | 0.727 |
| 3. LESS THAN MEDIUM ASSURANCE PKI | - | - | - | - | - | - | - | - | - | 0.027 | 10 | 0.270 | - | - | - | 0.027 | 10 | 0.270 |
| Subtotal: Recurring Cost | - | - | - | - | - | 4.165 | - | - | 4.160 | - | - | 4.230 | - | - | - | - | - | 4.230 |
| Subtotal: Hardware 0303135F COMSEC Cost | - | - | - | - | - | 4.165 | - | - | 4.160 | - | - | 4.230 | - | - | - | - | - | 4.230 |
| Gross/Weapon System Cost | - | - | - | - | - | 4.165 | - | - | 4.160 | - | - | 4.230 | - | - | - | - | - | 4.230 |

Exhibit P-5, Cost Analysis: PB 2021 Air Force

## Appropriation / Budget Activity / Budget Sub Activity

 3080F / 03 / 1ID Code (A=Service Ready, B=Not Service Ready) : A

| MDAP/MAIS Code: |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Resource Summary | Prior Years | FY 2019 | FY 2020 | FY 2021 Base | FY 2021 OCO | FY 2021 Total |
| Procurement Quantity (Units in Each) | - | - | - | - | - | - |
| Gross/Weapon System Cost (\$ in Millions) | - | 56.005 | 52.602 | 50.634 | - | 50.634 |
| Less PY Advance Procurement (\$ in Millions) | - | - | - | - | - | - |
| Net Procurement (P-1) (\$ in Millions) | - | 56.005 | 52.602 | 50.634 | - | 50.634 |
| Plus CY Advance Procurement (\$ in Millions) | - | - | - | - | - | - |
| Total Obligation Authority (\$ in Millions) | - | 56.005 | 52.602 | 50.634 | - | 50.634 |
| (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) | - | - | - | - | - | - |

## P-1 Line Item Number / Title: 831010 / Comsec Equipment

Date: February 2020
Item Number / Title [DODIC]:
Information Systems Security Program

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

|  | Prior Years |  |  | FY 2019 |  |  | FY 2020 |  |  | FY 2021 Base |  |  | FY 2021 OCO |  |  | FY 2021 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 (\$ 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) |
| Hardware - 1. AIR and GROUND COMSEC (PE 0303140F) Cost |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Recurring Cost |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| a. IN-LINE NETWORK ENCRYPTORS ${ }^{(\dagger)}$ | - | - | - | 0.016 | 678 | 11.029 | 0.016 | 168 | 2.700 | 0.016 | 914 | 14.563 | - | - | - | 0.016 | 914 | 14.563 |
| b. LINK ENCRYPTION FAMILY | - | - | - | 0.009 | 387 | 3.479 | - | - | - | - | - | - | - | - | - | - | - | - |
| c. AIR AND GROUND CONSOLIDATED ${ }^{(\dagger)}$ | - | - | - | 0.003 | 3,077 | 9.232 | 0.003 | 931 | 2.794 | 0.003 | 2,985 | 8.954 | - | - | - | 0.003 | 2,985 | 8.954 |
| Subtotal: Recurring Cost | - | - | - | - | - | 23.740 | - | - | 5.494 | - | - | 23.517 | - | - | - | - | - | 23.517 |
| Subtotal: Hardware - 1. AIR and GROUND COMSEC (PE 0303140F) Cost | - | - | - | - | - | 23.740 | - | - | 5.494 | - | - | 23.517 | - | - | - | - | - | 23.517 |

Hardware - 2. CRYPTOGRAPHIC MODERNIZATION (PE 0303140F) Cost
Recurring Cost

| a (1). KIV-78 | - | - | - | 0.008 | 25 | 0.199 | 0.008 | 25 | 0.203 | 0.008 | 25 | 0.207 | - | - | - | 0.008 | 25 | 0.207 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| b. (1) VINSON/ANDVT CRYPTOGRAPHIC MODERNIZATION (VACM) COMPONENTS (ARC-234) INSTALLATION | - | - | - | - | - | - | 0.006 | 278 | 1.673 | 0.006 | 83 | 0.500 | - | - | - | 0.006 | 83 | 0.500 |
| b. (2) VINSON/ANDVT CRYPTOGRAPHIC MODERNIZATION (VACM) DEVICES ${ }^{(\dagger)}$ | - | - | - | 0.011 | 1,132 | 12.454 | 0.011 | 1,700 | 18.707 | 0.011 | 1,831 | 20.141 | - | - | - | 0.011 | 1,831 | 20.141 |

UNCLASSIFIED

| Exhibit P-5, Cost Analysis: PB 2021 Air Force |  |  |  |  |  |  |  |  |  |  |  |  |  | Date: February 2020 |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3080F / 03 / 1 |  |  |  |  |  | P-1 Line Item Number / Title: 831010 / Comsec Equipment |  |  |  |  |  |  |  | Item Number / Title [DODIC]: Information Systems Security Program |  |  |  |  |
| 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 2019 |  |  | FY 2020 |  |  | FY 2021 Base |  |  | FY 2021 OCO |  |  | FY 2021 Total |  |  |
| Cost Elements | 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 (\$M) | Unit Cost (\$ M) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | $\begin{aligned} & \text { Total } \\ & \text { Cost } \\ & (\$ M) \\ & \hline \end{aligned}$ | Unit Cost | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | Total Cost (\$ M) | Unit Cost (\$ M) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | Total Cost (\$ M) |
| c. MISSILE ELECTRONIC ENCRYPTION DEVICES (MEED) | - | . | - | - | . | 0.139 | 0.010 | 1,803 | 18.038 | 0.010 | 92 | 0.922 | - | - | . | 0.010 | 92 | 0.922 |
| d. MIINI CRYPTO | - | - | - | 0.002 | 3,538 | 6.106 | 0.001 | 1,680 | 1.680 | 0.001 | 155 | 0.155 | - | - | - | 0.001 | 155 | 0.155 |
| e. PROGRAM MANAGEMENT (PMA) | - | - | - | - | - | 2.477 | - | - | 2.502 | - | - | 2.790 | - | - | - | - | - | 2.790 |
| b. (3) REMOTE CONTROL UNIT (RCU) | - | - | - | - | - | - | 0.008 | 210 | 1.682 | 0.008 | 125 | 1.000 | - | - | - | 0.008 | 125 | 1.000 |
| f. REMOTE REKEY (RRK) (Cl-33) | - | - | - | 1.570 | 1 | 1.570 | 1.246 | 1 | 1.246 | - | - | - | - | - | - | - | - | - |
| Subtotal: Recurring Cost | - | - | - | - | - | 22.945 | - | - | 45.731 | - | - | 25.715 | - | - | - | - | - | 25.715 |
| Subtotal: Hardware 2. CRYPTOGRAPHIC MODERNIZATION (PE 0303140F) Cost | - | . | . | - | - | 22.945 | - | - | 45.731 | - | - | 25.715 | - | - | - | - | - | 25.715 |
| Hardware - 4. AF KMI (PE 0303140F) Cost |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Recuring Cost |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| a. KMI HARDWARE | - | - | - | 0.043 | 217 | 9.320 | 0.038 | 36 | 1.377 | 0.033 | 42 | 1.402 | - | - | - | 0.033 | 42 | 1.402 |
| Subtotal: Recurring Cost | - | - | - | - | - | 9.320 | - | - | 1.377 | - | - | 1.402 | - | - | - | - | - | 1.402 |
| Subtotal: Hardware - 4. AF KMI (PE 0303140F) Cost | - | - | - | - | - | 9.320 | - | - | 1.377 | - | - | 1.402 | - | - | - | - | - | 1.402 |
| Gross/Weapon System Cost | - | - | - | - | - | 56.005 | - | - | 52.602 | - | - | 50.634 | - | - | - | - | - | 50.634 |

Remarks:
COMSEC Equipment is procured as a centrally managed item using 3080. Various units and difference price per unit. Average Unit Cost used.
$\left.{ }^{( } \dagger\right)$ indicates the presence of a P-5a

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| Exhibit P-5a, Procurement History and Planning: PB 2021 Air Force |  |  |  |  |  |  |  | Date: February 2020 |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3080F / 03 / 1 |  |  |  | P-1 Line Item Number / Title: 831010 / Comsec Equipment |  |  |  | Item Number / Title [DODIC]: <br> Information Systems Security Program |  |  |  |  |
| Cost Elements | 0 <br> c <br> O | FY | Contractor and Location | Method/Type <br> or <br> Funding Vehicle | Location of PCO | Award Date | $\begin{gathered} \text { Date } \\ \text { of First } \end{gathered}$ Delivery | $\underset{\text { (Each) }}{\text { Qty }}$ | Unit Cost (\$ M) | Specs Avail Now? | Date Revision Available | RFP Issue Date |
| a. IN-LINE NETWORK ENCRYPTORS |  | 2019 | General Dynamics / Various | Various | NSA | Nov 2018 | Jan 2019 | 678 | 0.016 | Y |  |  |
| a. IN-LINE NETWORK ENCRYPTORS |  | 2020 | General Dynamics / Various | Various | NSA | Nov 2019 | Jan 2020 | 168 | 0.016 | Y |  |  |
| a. IN-LINE NETWORK ENCRYPTORS |  | 2021 | General Dynamics / Various | Various | NSA | Nov 2020 | Jan 2021 | 914 | 0.016 | Y |  |  |
| c. AIR AND GROUND CONSOLIDATED |  | 2019 | Raytheon / Florida | Various | CPSG | Mar 2019 | Apr 2020 | 3,077 | 0.003 | Y |  |  |
| c. AIR AND GROUND CONSOLIDATED |  | 2020 | Raytheon / Florida | Various | CPSG | Mar 2020 | Apr 2021 | 931 | 0.003 | Y |  |  |
| c. AIR AND GROUND CONSOLIDATED |  | 2021 | Raytheon / Florida | Various | CPSG | Mar 2021 | Apr 2022 | 2,985 | 0.003 | Y |  |  |
| b. (2) VINSON/ANDVT CRYPTOGRAPHIC MODERNIZATION (VACM) DEVICES |  | 2019 | Raytheon / Florida | Various | NSA | Mar 2019 | Apr 2020 | 1,132 | 0.011 | Y |  |  |
| b. (2) VINSON/ANDVT CRYPTOGRAPHIC MODERNIZATION (VACM) DEVICES |  | 2020 | Raytheon / Florida | Various | NSA | Mar 2020 | Apr 2021 | 1,700 | 0.011 | Y |  |  |
| b. (2) VINSON/ANDVT CRYPTOGRAPHIC MODERNIZATION (VACM) DEVICES |  | 2021 | Raytheon / Florida | Various | NSA | Mar 2021 | Apr 2022 | 1,831 | 0.011 | Y |  |  |

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

## Appropriation / Budget Activity / Budget Sub Activity:

3080F: Other Procurement, Air Force / BA 03: Electronics and Telecommunications Equip / BSA 2: Intelligence Programs

| ID Code (A=Service Ready, B=Not Service Ready): B | Program Elements for Code B Items: 0305600F | Other Related Program Elements: N/A |
| :--- | :--- | :--- |

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

| Resource Summary | Prior <br> Years | FY 2019 | FY 2020 | $\begin{gathered} \text { FY } 2021 \\ \text { Base } \end{gathered}$ | $\begin{gathered} \text { FY } 2021 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \text { FY } 2021 \\ \text { Total } \end{gathered}$ | FY 2022 | FY 2023 | FY 2024 | FY 2025 | To Complete | Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Procurement Quantity (Units in Each) | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Cost (\$ in Millions) | 0.000 | 8.290 | 11.386 | 9.283 | - | 9.283 | 10.874 | 11.152 | 11.353 | 10.621 | - | 72.959 |
| Less PY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Net Procurement (P-1) (\$ in Millions) | 0.000 | 8.290 | 11.386 | 9.283 | - | 9.283 | 10.874 | 11.152 | 11.353 | 10.621 | - | 72.959 |
| Plus CY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Total Obligation Authority (\$ in Millions) | 0.000 | 8.290 | 11.386 | 9.283 | - | 9.283 | 10.874 | 11.152 | 11.353 | 10.621 | - | 72.959 |
| (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:






 instantiation of US BICES/BICES-X as the intelligence contribution to the Mission Partner Environment (MPE).

Funding for this exhibit contained in PE 0305600F

Exhibit P-40, Budget Line Item Justification: PB 2021 Air Force
Date: February 2020

## Appropriation / Budget Activity / Budget Sub Activity: <br> 3080F: Other Procurement, Air Force / BA 03: Electronics and Telecommunications

P-1 Line Item Number / Title:
832050 / International Intel Tech \& Architectures Equip / BSA 2: Intelligence Programs

*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:




 (TNE) equipment and software communications. Variations in quantity and unit price reflect planned capital investment.

Other Procurement funding will:

 (DCGS) releasable analytical applications.

- Procure the hardware and software needed to establish US BICES-X capabilities as a core infrastructure and enterprise for the intelligence component of the DoD MPE.
 the NATO Intelligence Fusion Center at the Joint Analysis Center, United Kingdom (UK).

- Provide enhanced capabilities for coalition Special Operations Command intelligence sharing capabilities.

Exhibit P-5, Cost Analysis: PB 2021 Air Force

## Appropriation / Budget Activity / Budget Sub Activity:

 3080F / 03 / 2
## P-1 Line Item Number / Title:

832050 / International Intel Tech \& Architectures

Date: February 2020

## Item Number / Title [DODIC]:

International Intel Tech \& Architectures

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

| Resource Summary |  |  |  |  |  | Prior Years |  | FY 2019 |  | FY 2020 |  | FY 2021 Base |  |  | FY 2021 OCO |  |  | FY 2021 Total |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Procurement Quantity (Units in Each) |  |  |  |  |  |  | - |  | - |  | - |  |  | - |  |  | - |  | - |
| Gross/Weapon System Cost (\$ in Millions) |  |  |  |  |  |  | 0.000 |  | 8.290 |  | 11.38 |  |  | 283 |  |  | - |  | 9.283 |
| Less PY Advance Procurement (\$ in Millions) |  |  |  |  |  |  | - |  | - |  | - |  |  | - |  |  | - |  | - |
| Net Procurement (P-1) (\$ in Millions) |  |  |  |  |  |  | 0.000 |  | 8.290 |  | 11.38 |  |  | 283 |  |  | - |  | 9.283 |
| Plus CY Advance Procurement (\$ in Millions) |  |  |  |  |  |  | - |  | - |  |  |  |  | - |  |  | - |  | - |
| Total Obligation Authority (\$ in Millions) |  |  |  |  |  |  | 0.000 |  | 8.290 |  | 11.38 |  |  | 283 |  |  | - |  | 9.283 |
| (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 2019 |  |  | FY 2020 |  |  | FY 2021 Base |  |  | FY 2021 OCO |  |  |  | FY 2021 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 <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 - International Intel Tech Cost |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Recurring Cost |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Workstation Suites | - | - | 0.000 | 0.002 | 216 | 6 0.432 | 0.002 | 318 | 0.636 | 0.002 | 320 | 0.640 | - |  | - | - | 0.002 | 320 | 0.640 |
| Server Suites | - | - | 0.000 | 0.015 | 28 | 8 0.420 | 0.015 | 36 | 0.540 | 0.015 | 28 | 0.420 | - |  | - | - | 0.015 | 28 | 0.420 |
| Laptop Suites | - | - | 0.000 | 0.002 | 9 | 9.0 .018 | 0.002 | 12 | 0.024 | 0.003 | 7 | 0.021 | - |  | - | - | 0.003 | 7 | 0.021 |
| Printers | - | - | 0.000 | - | - | 0.000 | - | - | 0.000 | - | - | 0.000 | - |  | - | - | - | - | 0.000 |
| Storage and Backup Suites | - | - | 0.000 | 0.024 | 7 | $7 \quad 0.168$ | 0.024 | 9 | 0.216 | 0.024 | 8 | 0.192 | - |  | - | - | 0.024 | 8 | 0.192 |
| Network Equipment ${ }^{(\dagger)}$ | 0.000 | 5 | 0.000 | 0.516 | 9 | 9.4 .644 | 0.516 | 13 | 6.708 | 0.516 | 10 | 5.160 | - |  | - | - | 0.516 | 10 | 5.160 |
| Video Teleconference Suite | - | - | 0.000 | 0.083 | 4 | $4 \quad 0.332$ | 0.083 | 8 | 0.664 | 0.083 | 5 | 0.415 | - |  | - | - | 0.083 | 5 | 0.415 |
| Encryption Equipment | - | - | 0.000 | 0.015 | 27 | $7{ }^{0} 0.405$ | 0.015 | 29 | 0.435 | 0.015 | 27 | 0.405 | - |  | - | - | 0.015 | 27 | 0.405 |
| Infrastructure | - | - | 0.000 | 0.056 | 22 | 21.232 | 0.056 | 23 | 1.288 | 0.056 | 23 | 1.288 | - |  | - | - | 0.056 | 23 | 1.288 |
| Deployable System Monitors 32 inch LCD (373 Base, 80 OCO) | - | - | 0.000 | - | - | 0.000 | - | - | 0.000 | - | - | 0.000 | - |  | - | - | - | - | 0.000 |
| Subtotal: Recurring Cost | - | - | 0.000 | - | - | 7.651 | - | - | 10.511 | - | - | 8.541 | - |  | - | - | - | - | 8.541 |
| Non Recurring Cost |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Fly-Away Deployable BICES Mobile Units with Video | - | - | 0.000 | 0.042 | 3 | $3 \quad 0.126$ | 0.042 | 5 | 0.210 | 0.042 | 5 | 0.210 | - |  | - | - | 0.042 | 5 | 0.210 |
| Subtotal: Non Recurring Cost | - | - | 0.000 | - | - | 0.126 | - | - | 0.210 | - | - | 0.210 | - |  | - | - | - | - | 0.210 |

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| Exhibit P-5, Cost Analysis: PB 2021 Air Force |  |  |  |  |  |  |  |  |  |  |  |  |  | Date: February 2020 |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3080F / 03 / 2 |  |  |  |  |  | P-1 Line Item Number / Title: <br> 832050 / International Intel Tech \& Architectures |  |  |  |  |  |  |  | Item Number / Title [DODIC]: International Intel Tech \& Architectures |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  | 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 2019 |  |  | FY 2020 |  |  | FY 2021 Base |  |  | FY 2021 OCO |  |  | FY 2021 Total |  |  |
| Cost Elements | $\begin{gathered} \text { Unit Cost } \\ (\$ M) \\ \hline \end{gathered}$ | $\begin{gathered} \text { Qty } \\ \text { (Each) } \\ \hline \end{gathered}$ | Total Cost (\$ M) | Unit Cost (\$ M) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | Total Cost <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) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \\ \hline \end{gathered}$ | Total Cost $\qquad$ | $\begin{gathered} \text { Unit Cost } \\ (\$ M) \\ \hline \end{gathered}$ | $\begin{gathered} \text { Qty } \\ \text { (Each) } \\ \hline \end{gathered}$ | Total Cost <br> (\$ M) |
| Subtotal: Hardware International Intel Tech Cost | - | - | 0.000 | - | - | 7.777 | - | - | 10.721 | - | - | 8.751 | - | - | - | - | - | 8.751 |
| Software - International Intel Tech Cost |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Recurring Cost |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Software Licenses | - | - | 0.000 | 0.076 | 5 | 0.380 | 0.076 | 7 | 0.532 | 0.076 | 7 | 0.532 | - | - | - | 0.076 | 7 | 0.532 |
| Subtotal: Recurring Cost | - | - | 0.000 | - | - | 0.380 | - | - | 0.532 | - | - | 0.532 | - | - | - | - | - | 0.532 |
| Subtotal: Software - <br> International Intel Tech Cost | - | - | 0.000 | - | - | 0.380 | - | - | 0.532 | - | - | 0.532 | - | - | - | - | - | 0.532 |
| Support - International Intel Tech Cost |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| US BICES Mobility | - | - | 0.000 | - | - | 0.044 | - | - | 0.044 | - | - | 0.000 | - | - | - | - | - | 0.000 |
| Program Support | - | - | 0.000 | - | - | 0.089 | - | - | 0.089 | - | - | 0.000 | - | - | - | - | - | 0.000 |
| Subtotal: Support International Intel Tech Cost | - | - | 0.000 | - | - | 0.133 | - | - | 0.133 | - | - | 0.000 | - | - | - | - | - | 0.000 |
| Gross/Weapon System Cost | - | - | 0.000 | - | - | 8.290 | - | - | 11.386 | - | - | 9.283 | - | - | - | - | - | 9.283 |

## Remarks:

Automated P-Doc system rounds unit cost and does not allow unit costs below \$1,000.
$\left.{ }^{( } \dagger\right)$ indicates the presence of a P-5a

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| Exhibit P-5a, Procurement History and Planning: PB 2021 Air Force |  |  |  |  |  |  |  | Date: February 2020 |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3080F / 03 / 2 |  |  |  | P-1 Line Item Number / Title: <br> 832050 / International Intel Tech \& Architectures |  |  |  | Item Number / Title [DODIC]: <br> International Intel Tech \& Architectures |  |  |  |  |
| 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 Delivery | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Unit Cost (\$M) | Specs Avail Now? | Date Revision Available | RFP Issue Date |
| Network Equipment |  | 2018 | GDIT / Springfield VA | SS/IDIQ | AA-CDM | Jan 2018 | Apr 2018 | 5 | 0.516 | N | Dec 2017 | Nov 2017 |
| Network Equipment |  | 2019 | GDIT / Springfield VA | SS/IDIQ | AA-CDM | Jan 2019 | Apr 2019 | 9 | 0.516 | N | Dec 2018 | Nov 2018 |
| Network Equipment |  | 2020 | GDIT / Springfield VA | SS/IDIQ | AA-CDM | Jan 2020 | Apr 2020 | 13 | 0.516 | N | Dec 2019 | Nov 2019 |
| Network Equipment |  | 2021 | GDIT / Springfield VA | SS/IDIQ | AA-CDM | Jan 2021 | Apr 2021 | 10 | 0.516 | N | Dec 2020 | Nov 2020 |

## Remarks:

N/A

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Exhibit P-40, Budget Line Item Justification: PB 2021 Air Force
Date: February 2020
Appropriation / Budget Activity / Budget Sub Activity:
3080F: Other Procurement, Air Force / BA 03: Electronics and Telecommunications
Equip / BSA 2: Intelligence Programs

## P-1 Line Item Number / Title: <br> 832060 / Intelligence Training Equipment

## Equip / BSA 2: Intelligence Programs

| ID Code (A=Service Ready, B=Not Service Ready) |  |  | Program Ele | ments for Cod | e B Items: N |  |  | Other Relate | Program El | ments: N/A |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Line Item MDAP/MAIS Code: N/A |  |  |  |  |  |  |  |  |  |  |  |  |
| Resource Summary | Prior <br> Years | FY 2019 | FY 2020 | $\text { FY } 2021$ Base | $\begin{gathered} \text { FY } 2021 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \text { FY } 2021 \\ \text { Total } \end{gathered}$ | FY 2022 | FY 2023 | FY 2024 | FY 2025 | To Complete | Total |
| Procurement Quantity (Units in Each) | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Cost (\$ in Millions) | - | 1.599 | 7.619 | 6.849 | - | 6.849 | 5.781 | 5.881 | 5.987 | 6.097 | - | 39.813 |
| Less PY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Net Procurement (P-1) (\$ in Millions) | - | 1.599 | 7.619 | 6.849 | - | 6.849 | 5.781 | 5.881 | 5.987 | 6.097 | - | 39.813 |
| Plus CY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Total Obligation Authority (\$ in Millions) | - | 1.599 | 7.619 | 6.849 | - | 6.849 | 5.781 | 5.881 | 5.987 | 6.097 | - | 39.813 |
| (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:





 (DHS), and Joint/Coalition Partner personnel at Goodfellow Air Force Base (GAFB), Texas.

PE 0804733F GENERAL INTELLIGENCE SKILL TRAINING (GIST)
 networks and systems into a single integrated GITA.

Funding for this exhibit contained in PE 0804733F.


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

## Justification:

PE 0804733F GENERAL INTELLIGENCE SKILL TRAINING



 system capabilities to support ever-evolving operational intelligence tools; and addresses uncertainty in continued sustainment capabilities to reduce failure rates and outages.

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| Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2021 Air Force ${ }^{\text {a }}$ D |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Date: February 2020 <br> Aggregated Items Title: <br> Intelligence Training Equipment |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3080F / 03 / 2 |  |  |  |  |  |  |  | P-1 Line Item Number / Title: <br> 832060 / Intelligence Training Equipment |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  | ior Yea |  | FY 2019 |  |  | FY 2020 |  |  | FY 2021 Base |  |  | FY 2021 OCO |  |  | FY 2021 Total |  |  |
| Item Number / Title [DODIC] | $\begin{aligned} & \mathrm{ID} \\ & \mathrm{CD} \end{aligned}$ | $\begin{aligned} & \text { MDAP/ } \\ & \text { MAIS } \\ & \text { Code } \end{aligned}$ | 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 (\$ M) | Unit Cost (\$ M) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost <br> (\$ M) |
| UNCATEGORIZED |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| GITA UPGRADE | A |  | - | - | - | - | - | 1.599 | - | - | 7.619 | - | - | 6.849 | - | - | - | - | - | 6.849 |
| Subtotal: UNCATEGORIZED |  |  | - | - | - | - | - | 1.599 | - | - | 7.619 | - | - | 6.849 | - | - | - | - | - | 6.849 |
| Total |  |  | - | - | - | - | - | 1.599 | - | - | 7.619 | - | - | 6.849 | - | - | - | - | - | 6.849 |

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

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Exhibit P-40, Budget Line Item Justification: PB 2021 Air Force
Date: February 2020
Appropriation / Budget Activity / Budget Sub Activity:
3080F: Other Procurement, Air Force / BA 03: Electronics and Telecommunications

## P-1 Line Item Number / Title:

832070 / Intelligence Comm Equipment Equip / BSA 2: Intelligence Programs

Program Elements for Code B Items: N/A
Other Related Program Elements: 0305022F, 0305220F, 0305221F, 1203400F

| ID Code (A=Service Ready, B=Not Service Ready): A |  |  | Program Elements for Code B Items: N/A |  |  |  |  | Other Related Program Elements: 0305022F, 0305220F, 0305221F, 1203400F |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Line Item MDAP/MAIS Code: N/A |  |  |  |  |  |  |  |  |  |  |  |  |
| Resource Summary | Prior <br> Years | FY 2019 | FY 2020 | FY 2021 Base | $\begin{gathered} \text { FY } 2021 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \text { FY } 2021 \\ \text { Total } \end{gathered}$ | FY 2022 | FY 2023 | FY 2024 | FY 2025 | To Complete | Total |
| Procurement Quantity (Units in Each) | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Cost (\$ in Millions) | 0.000 | 21.720 | 32.048 | 33.471 | 0.000 | 33.471 | 23.218 | 23.756 | 24.292 | 32.669 | 0.000 | 191.174 |
| Less PY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Net Procurement (P-1) (\$ in Millions) | 0.000 | 21.720 | 32.048 | 33.471 | 0.000 | 33.471 | 23.218 | 23.756 | 24.292 | 32.669 | 0.000 | 191.174 |
| Plus CY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Total Obligation Authority (\$ in Millions) | 0.000 | 21.720 | 32.048 | 33.471 | 0.000 | 33.471 | 23.218 | 23.756 | 24.292 | 32.669 | 0.000 | 191.174 |
| (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:

PE 0207431F Combat Air Intelligence System Activities - P-40A
Enhanced GEOSPATIAL PRODUCT LIBRARY (eGPL): eGPL provides all AF units access to digital GEOINT and targeting data products in support of targeting, intelligence and mission planning processes, including support to units deploying to South West Asia and North Africa. It provides the sole resource to store and immediately retrieve large digital files and mission essential GEOINT data required to conduct AF mission sets. This storage includes tape drives to ensure data survivability and rapid back-up/restoration 20 times faster than network technology, freeing units critical time to support mission tasks.

UNIT LEVEL INTELLIGENCE (ULI) SYSTEMS \& Center of Excellence (COE): ULI fields the Personal Computer- Integrated Imagery and Intelligence (PC-I3/T) and Targeting Application Workstation (TAW) systems which are used by intelligence analysts to produce Targeting and Mission Planning materials. The ULI COE provides reach back support for the field units on hardware and software issues. The COE also provides MXIIA patch development and distribution services.

JOINT TARGETING TOOLBOX (JTT): Provides JTT servers for interfacing programs to test against. Servers are needed on Unclassified and Secret environments and will require soffware licenses to support operations.
 reconnaissance (ISR) reports. The two ISR-related components of IOTA are the mission report (MISREP) analysis tool (MAT) and ISR Assessment Tool (IAT).

Targeting and Geospatial-Intelligence (T\&G) Program Management Office (PMO): Provides the infrastructure that enables the agile development, sustainment, and fielding of new T\&G capabilities, and ensures that the technical baseline is established and controlled by the Government. Sustainment includes help desk support, documentation, information assurance, STIGs/TCNOs, software patches and fixes. Fielding supports ULI, eGPL, JTT, IOTA, and any new T\&G capability not fielded via other paths.

PE 0208288F Intel Data Applications - P-40A
 system maintenance downtime.

| Appropriation / Budget Activity / Budget Sub Activity: |
| :--- |
| 3080F: Other Procurement, Air Force / BA 03: Electronics and Telecommunications |
| Equip / BSA 2: Intelligence Programs |

## P-1 Line Item Number / Title:

832070 / Intelligence Comm Equipment

ID Code (A=Service Ready, B=Not Service Ready): A
Program Elements for Code B Items: N/A
Other Related Program Elements: 0305022F, 0305220F,
0305221F, 1203400F

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

PE 0305022F ISR Modernization \& Automation Dvmt (IMAD) - P-40A
IT equipment required for kill chain automation to centrally manage ISR data wrangling, data aggregation, AI/machine learning, tool development, and automation.
PE 0305146F Defense Joint Counterintelligence Activities - P-40A

 required for these investigations is unique and complex, and is a part of the formally designated USAF TSCM weapons system and/or the Cyber Counterintelligence suite of tools.

PE 0305179F Integrated Broadcast Service (IBS) - P-40A

 operational baseline represents the migration, integration, and consolidation of existing tactical data dissemination into a future common architecture message format.

PE 0305192F Military Intelligence Program (MIP) Activities - P-40A
Will fund information recovery technology for Enterprise Service Centers. Funds will also be used to procure servers, storage devices, associated hardware upgrades, and installation costs.
PE 0305208F Distributed Common Ground/Surface Systems - P-5
The FY19 OCO funding request will be used to procure communications equipment for the DCGS program.
PE 0305221F Network-Centric Collaborative Targeting - P-40A





 satisfying DoD standards and Information Assurance requirements.



 INT use cases, and the continuation of rapid software deliveries based on continuous user feedback and agile methodologies.

Funding for this exhibit contained in PE 0305221F.
PE 0307577F Intelligence Mission Data (IMD) - P-40A
Funding will enable procurement of equipment for Advanced NCTR Collect and storage systems supporting Operational Reconnaissance data automation.
PE 1203400F Space Superiority Intelligence - P-40A
PE 123400F, SPACE SUPERIORITY INTELLIGENCE

| Exhibit P-40, Budget Line Item Justification: PB 2021 Air Force |  | Date: February 2020 |
| :--- | :--- | :--- |
| Appropriation / Budget Activity / Budget Sub Activity: | P-1 Line Item Number / Title: |  |
| 3080F: Other Procurement, Air Force / BA 03: Electronics and Telecommunications | 832070 / Intelligence Comm Equipment |  |
| Equip / BSA 2: Intelligence Programs |  |  |


| ID Code (A=Service Ready, B=Not Service Ready): A | Program Elements for Code B Items: N/A | Other Related Program Elements: 0305022F, 0305220F, 0305221F, 1203400F |
| :---: | :---: | :---: |
| Line Item MDAP/MAIS Code: N/A |  |  |
|  |  |  |
| ARC STORM: Uses commercially available technology and systems to provide the rapid geo-location of commercial satellite communication emitter locations, utilizing unmanned, remotely operated systems located in key area throughout the world. |  |  |
| Funds are required to re-capitalize current fielded systems that have operated for 4 years. Processing equipment runs $24 / 7$ to support high utilization rates. Antennas and supporting equipment are fully exposed to the elements, experience a great deal of physical movement, and are reaching end of life expectancy. |  |  |
| ARC STORM systems will become inoperable without equipment recapitalization; resulting in loss of geo-location collection. Funds will allow immediate re-capitalization of two fielded systems plus an additional spare, allowing for continued support to operations. |  |  |

Exhibit P-40, Budget Line Item Justification: PB 2021 Air Force
 Equip / BSA 2: Intelligence Programs

| ID Code (A=Service Ready, B=Not Service Ready): A |  |  | Program Elements for Code B Items: N/A |  |  |  | Other Related Program Elements: 0305022F, 0305220F, 0305221F, 1203400F |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Line Item MDAP/MAIS Code: N/A |  |  |  |  |  |  |  |  |  |  |
| Exhibits Schedule |  |  |  |  | Prior Years | FY 2019 | FY 2020 | FY 2021 Base | FY 2021 OCO | FY 2021 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 | Combat Air Intelligence System Activities |  |  |  | 1 | - 16.835 | - 15.363 | - /14.535 | - 1 | - /14.535 |
| P-40a | Intel Data Applications |  |  |  | - 1 - | 15.471 | - 10.000 | - 10.000 | - 10.000 | - 10.000 |
| P-40a | ISR Modernization \& Automation Dvmt (IMAD) |  |  |  | - 10.000 | - 10.000 | - 10.000 | - 13.280 | - 1 | - 13.280 |
| P-40a | Defense Joint Counterintelligence Activities |  |  |  | 1 | - 10.952 | - 12.644 | - 12.507 | - 1 - | - 12.507 |
| P-40a | Integrated Broadcast Service (IBS) |  |  |  | - 1 - | - 10.000 | - /16.743 | - $/ 5.727$ | - 1 - | - 15.727 |
| P-40a | Military Intelligence Program (MIP) Activities |  |  |  | 1 | - 14.080 | - 14.150 | - 13.949 | 1 | - 13.949 |
| P-5 | Distributed Common Ground/Surface Systems |  | A |  | - 10.000 | - 10.400 | - 10.000 | - 10.000 | - 10.000 | - 10.000 |
| P-40a | Network-Centric Collaborative Targeting |  |  |  | - 1 - | - 13.095 | - 13.148 | - 12.997 | - 1 - | - 12.997 |
| P-40a | Intelligence Mission Data (IMD) |  |  |  | - 1 | - 10.602 | - 10.000 | - 10.476 | - 1 - | - 10.476 |
| P-40a | Space Superiority Intelligence |  |  |  | - 1 - | - 10.285 | - 10.000 | - 10.000 | - 10.000 | - 10.000 |
| P-40 | Total Gross/Weapon System Cost |  |  |  | - 10.000 | - 121.720 | - 132.048 | - 133.471 | - 10.000 | - 133.471 |

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

## Justification:




 systems.

PE 0305022F ISR Modernization \& Automation Dvmt (IMAD) - P-40A
FY21 funding required for IT equipment for kill chain automation to centrally manage ISR data wrangling, data aggregation, AI/machine learning, tool development, and automation.
PE 0305146F Defense Joint Counterintelligence Activities - P-40A
 information and activities.

PE 0305179F Integrated Broadcast Service (IBS) - P-40A
FY21 funding for IBS procurement efforts are focused in the following areas:
 necessitated by mission changes, system interoperability requirements, and system security. The new release supports migration to CIB Uplink Sites.

## Appropriation / Budget Activity / Budget Sub Activity:

3080F: Other Procurement, Air Force / BA 03: Electronics and Telecommunications Equip / BSA 2: Intelligence Programs
ID Code (A=Service Ready, B=Not Service Ready): A
Program Elements for Code B Items: N/A
Other Related Program Elements: 0305022F, 0305220F,
0305221F, 1203400F

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



 interoperability, and system security compliance to achieve threshold requirements.
 effort procures the infrastructure for dynamic software library updates for multiple operating systems essential to broadcast operation.



 engineering activities.
 and integration as necessitated by mission changes, system interoperability, and system security.
7.Downlink Monitoring Element (DME): Monitoring tool that monitors IBS activity.

Funding may be used to address Diminishing Manufacturing Sources (DMS) issues.
PE 0305192F Military Intelligence Program (MIP) Activities - P-40A

PE 0305221F Network-Centric Collaborative Targeting - P-40A


 Force and Joint experiments, demonstrations and exercises as necessary.

PE 0307577F Intelligence Mission Data (IMD) - P-40A
 KVM, $2 x$ Rack, $2 x$ Management switches, server management and database software

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| Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2021 Air Force |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Date: February 2020 |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3080F / 03 / 2 |  |  |  |  |  |  |  | P-1 Line Item Number / Title: <br> 832070 / Intelligence Comm Equipment |  |  |  |  |  |  |  | Aggregated Items Title: <br> Combat Air Intelligence System Activities |  |  |  |  |
|  | $\begin{aligned} & \mathrm{ID} \\ & \mathrm{CD} \end{aligned}$ | MDAP/ MAIS Code | Prior Years |  |  | FY 2019 |  |  | FY 2020 |  |  | FY 2021 Base |  |  | FY 2021 OCO |  |  | FY 2021 Total |  |  |
| Item Number / <br> Title [DODIC] |  |  | Unit Cost (\$ M) | Qty <br> (Each) | Total Cost (\$ M) | Unit Cost (\$ M) | Qty <br> (Each) | 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) | Unit Cost (\$ M) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost (\$ M) |
| Uncategorized |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| CAIS PE 0207431F | A |  | - | - | - | - | - | 2.523 | - | - | 1.887 | - | - | 10.998 | - | - | - | - | - | 10.998 |
| ULI | A |  | - | - | - | - | - | 2.312 | - | - | 3.476 | - | - | 3.537 | - | - | - | - | - | 3.537 |
| GPL | A |  | - | - | - | - | - | 2.000 | - | - | - | - | - | - | - | - | - | - | - | - |
| IStore | A |  | - | - | 0.000 | - | - | - - | - | - | - | - | - | - | - | - | - | - | - | - |
| GCCS-I3 | A |  | - | - | 0.000 | - | - | - - | - | - | - | - | - | - | - | - | - | - | - | - |
| IOTA | A |  | - | - | 0.000 | - | - | - - | - | - | - | - | - | - | - | - | - | - | - | - |
| COE T\&G Integrator | A |  | - | - | 0.000 | - | - | - - | - | - | - | - | - | - | - | - | - | - | - | - |
| JTT | A |  | - | - | 0.000 | - | - | - - | - | - | - | - | - | - | - | - | - | - | - | - |
| Subtotal: Uncategorized |  |  | - | - | - | - | - | 6.835 | - | - | 5.363 | - | - | 14.535 | - | - | - | - | - | 14.535 |
| Total |  |  | - | - | - | - | - | 6.835 | - | - | 5.363 | - | - | 14.535 | - | - | - | - | - | 14.535 |

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| Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2021 Air Force |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Date: February 2020 <br> Aggregated Items Title: Intel Data Applications |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3080F / 03 / 2 |  |  |  |  |  |  |  | P-1 Line Item Number / Title: 832070 / Intelligence Comm Equipment |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  | ior Yea |  | FY 2019 |  |  | FY 2020 |  |  | FY 2021 Base |  |  | FY 2021 OCO |  |  | FY 2021 Total |  |  |
| Item Number / Title [DODIC] | $\begin{aligned} & \mathrm{ID} \\ & \mathrm{CD} \end{aligned}$ | $\begin{aligned} & \text { MDAP/ } \\ & \text { MAIS } \\ & \text { code } \end{aligned}$ | Unit Cost (\$ M) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | Total Cost (\$ M) | Unit Cost (\$ M) | $\begin{aligned} & \text { (Each) } \end{aligned}$ | Total Cost (\$ M) | Unit Cost (\$ M) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost <br> (\$ M) | Unit Cost (\$M) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | 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) |
| Intel Data Applications |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| New ltem | A |  | - | - | - | 5.471 |  | 5.471 | - | - | 0.000 | - | - | 0.000 | - | - | 0.000 | - | - | 0.000 |
| Subtotal: Intel Data Applications |  |  | - | - | - | - | - | 5.471 | - | - | 0.000 | - | - | 0.000 | - | - | 0.000 | - | - | 0.000 |
| Total |  |  | - | - | - | - | - | 5.471 | - | - | 0.000 | - | - | 0.000 | - | - | 0.000 | - | - | 0.000 |

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

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|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Date: February 2020 |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3080F / 03 / 2 |  |  |  |  |  |  |  | P-1 Line Item Number / Title: 832070 / Intelligence Comm Equipment |  |  |  |  |  |  |  | Aggregated Items Title: ISR Modernization \& Automation Dvmt (IMAD) |  |  |  |  |
|  |  |  | Prior Years |  |  | FY 2019 |  |  | FY 2020 |  |  | FY 2021 Base |  |  | FY 2021 OCO |  |  | FY 2021 Total |  |  |
| Item Number / Title [DODIC] | $\begin{aligned} & \mathrm{ID} \\ & \mathrm{CD} \end{aligned}$ | $\begin{aligned} & \text { MDAP/ } \\ & \text { MAIS } \\ & \text { Code } \end{aligned}$ | Unit Cost (\$ M) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | $\begin{aligned} & \hline \text { Total } \\ & \text { Cost } \\ & (\$ M) \\ & \hline \end{aligned}$ | Unit Cost (\$ M) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | $\begin{aligned} & \hline \text { Total } \\ & \text { Cost } \\ & (\$ M) \\ & \hline \end{aligned}$ | Unit Cost (\$ M) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | $\begin{aligned} & \hline \text { Total } \\ & \text { Cost } \\ & (\$ M) \\ & \hline \end{aligned}$ | Unit Cost (\$ M) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | Total Cost <br> (\$ M) | Unit Cost (\$ M) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | Total Cost <br> (\$ M) | Unit Cost $(\$ M)$ | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | $\begin{aligned} & \text { Total } \\ & \text { Cost } \\ & (\$ M) \end{aligned}$ |
| IMAD Kill Chain Automation IT Eqmt PE 35022F |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| IT Equipment | A |  | - - | - | 0.000 | - | - | 0.000 | - | - | 0.000 | - | - | 3.280 | - | - | - | - | - | 3.280 |
| Subtotal: IMAD Kill Chain Automation IT Eqmt PE 35022F |  |  | . | - | 0.000 | - | - | 0.000 | - | - | 0.000 | - | - | 3.280 | - | - | - | - | - | 3.280 |
| Total |  |  | - | - | 0.000 | - | - | 0.000 | - | - | 0.000 | - | . | 3.280 | - | - | - | - | - | 3.280 |

## UNCLASSIFIED

| Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2021 Air Force |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Date: February 2020 |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3080F / 03 / 2 |  |  |  |  |  |  | P-1 Line Item Number / Title: 832070 / Intelligence Comm Equipment |  |  |  |  |  |  |  | Aggregated Items Title: <br> Defense Joint Counterintelligence Activities |  |  |  |  |
|  |  |  | ior Yea |  |  | FY 2019 |  |  | FY 2020 |  |  | 2021 B |  |  | 2021 O |  |  | 2021 T |  |
| Item Number / Title [DODIC] | ID MDAPI <br> CD MAIS <br> Code  | Unit Cost $(\$ M)$ | $\begin{gathered} \text { Qty } \\ \text { (Each) } \\ \hline \end{gathered}$ | $\begin{aligned} & \hline \text { Total } \\ & \text { Cost } \\ & (\$ M) \\ & \hline \end{aligned}$ | $\begin{array}{\|c\|} \hline \text { Unit Cost } \\ (\$ M) \end{array}$ | $\begin{gathered} \text { Qty } \\ \text { (Each) } \\ \hline \end{gathered}$ | $\begin{aligned} & \hline \text { Total } \\ & \text { Cost } \\ & (\$ M) \\ & \hline \end{aligned}$ | Unit Cost $(\$ M)$ | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | $\begin{aligned} & \hline \text { Total } \\ & \text { Cost } \\ & (\$ M) \\ & \hline \end{aligned}$ | Unit Cost (\$M) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total <br> Cost <br> (\$ M) | $\underset{(S M)}{\text { Unit Cost }}$ | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | Total Cost (\$ M) | Unit Cost (\$M) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | Total Cost $\qquad$ |
| Uncategorized |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| DEFENSE JOINT COUNTERINTELLIG PROGRAM PE 0305146 F | NCE | - | - | - | - | - | 0.952 | - | - | 2.644 | - | - | 2.507 | - | - | - | - | - | 2.507 |
| Subtotal: Uncategorized |  | - | - | - | - | - | 0.952 | - | - | 2.644 | - | - | 2.507 | - | - | - | - | - | 2.507 |
| Total |  | - | - |  | - | - | 0.952 | - | - | 2.644 | - | - | 2.507 | - | - | - | - | - | 2.507 |

UNCLASSIFIED


Note: Subtotals or Totals in this Exhibit P-40a may not be exact or sum exactly, due to rounding.
Remarks:
Remarks: IBS-NS: Capital equipment replacement of the Global IBS Servers (GINS), Theater Interface Nodes (TINS), CIB Uplink Sites (CUS), and IBS Network equipment
(6)

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| Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2021 Air Force |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Date: February 2020 |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3080F / 03 / 2 |  |  |  |  |  |  |  | P-1 Line Item Number / Title: 832070 / Intelligence Comm Equipment |  |  |  |  |  |  | Aggregated Items Title: <br> Military Intelligence Program (MIP) Activities |  |  |  |  |  |
|  |  |  | Prior Years |  |  | FY 2019 |  |  | FY 2020 |  |  | FY 2021 Base |  |  | FY 2021 OCO |  |  | FY 2021 Total |  |  |
| Item Number / Title [DODIC] | $\begin{aligned} & \text { ID } \\ & \mathrm{CD} \end{aligned}$ | $\begin{array}{\|l\|l} \hline \text { MDAPI } \\ \text { MAIS } \\ \text { Code } \end{array}$ | Unit Cost (\$ M) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost (\$ M) | Unit Cost (\$ M) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | $\begin{aligned} & \hline \text { Total } \\ & \text { Cost } \\ & (\$ M) \\ & \hline \end{aligned}$ | Unit Cost (\$ M) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | Total Cost (\$ M) | Unit Cost (\$ M) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | $\begin{aligned} & \text { Total } \\ & \text { Cost } \end{aligned}$ (\$M) | Unit Cost (\$M) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | Total Cost (\$ M) | Unit Cost (\$ M) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | $\begin{aligned} & \text { Total } \\ & \text { Cost } \\ & (\$ M) \end{aligned}$ |
| Equipment |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Equipment | A |  | - | - | - | 4.880 |  | 1 1 4.080 | 4.150 | 1 | 4.150 | 3.949 | 1 | 3.949 | - | - | - | 3.949 | 1 | 3.949 |
| Subtotal: Equipment |  |  | - | - | - | - | - | 4.080 | - | - | 4.150 | - | - | 3.949 | - | - | - | - | - | 3.949 |
| Total |  |  | - | - | - | - | - | 4.080 | - | - | 4.150 | - | - | 3.949 | - | - | - | - | - | 3.949 |

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

## UNCLASSIFIED

| Exhibit P-5, Cost Analysis: PB 2021 Air Force |  |  |  |  |  |  |  |  |  |  |  |  |  | Date: February 2020 |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3080F / 03 / 2 |  |  |  |  |  | P-1 Line Item Number / Title: <br> 832070 / Intelligence Comm Equipment |  |  |  |  |  |  |  | Item Number / Title [DODIC]: <br> Distributed Common Ground/Surface Systems |  |  |  |  |
| ID Code (A=Service Ready, B=Not Service Ready) : A |  |  |  |  |  |  |  |  |  | MDAP/MAIS Code: |  |  |  |  |  |  |  |  |
| Resource Summary |  |  |  |  |  | Prior Years |  | FY 2019 |  | FY 2020 |  | FY 2021 Base |  |  | FY 2021 OCO |  | FY 2021 Total |  |
| Procurement Quantity (Units in Each) |  |  |  |  |  |  |  |  | - |  |  |  |  | - |  | - |  | - |
| Gross/Weapon System Cost (\$ in Milions) |  |  |  |  |  |  | 0.000 |  | 0.400 |  |  |  |  | 0.000 |  | 0.000 |  | 0.000 |
| Less PY Advance Procurement (\$ in Millions) |  |  |  |  |  |  | - |  | - |  |  |  |  | - |  | - |  | - |
| Net Procurement (P-1) (\$ in Millions) |  |  |  |  |  |  | 0.000 |  | 0.400 |  |  |  |  | 0.000 |  | 0.000 |  | 0.000 |
| Plus CY Advance Procurement (\$ in Millions) |  |  |  |  |  |  | - |  | - |  |  |  |  | - |  | - |  | - |
| Total Obligation Authority (\$ in Millions) |  |  |  |  |  |  | 0.000 |  | 0.400 |  |  |  |  | 0.000 |  | 0.000 |  | 0.000 |
| (The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.) |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Initial Spares (\$ in Millions) |  |  |  |  |  |  | - |  | - | - |  | - |  |  | - |  |  | - |
| Gross/Weapon System Unit Cost (\$ in Millions) |  |  |  |  |  | - |  | - |  |  |  |  |  | - |  | - | - |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Note: Subtotals or Totals in this Exhibit P-5 may not be exact or  <br>  Prior Years |  |  |  | FY 2019 |  |  | FY 2020 |  |  |  |  |  |  |  |  | FY 2021 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 $\qquad$ | Unit Cost | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total <br> Cost <br> (\$ M) | Unit Cost (\$ M) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total <br> Cost <br> (\$ M) | $\begin{array}{\|c} \text { Unit Cost } \\ (\$ M) \\ \hline \end{array}$ | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | Total <br> Cost <br> (\$M) |
| Hardware - Distributed Common Ground/Surface Systems Cost |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Non Recurring Cost |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Subtotal: Non Recurring Cost | - |  | 0.000 | - | - | 0.400 | - | - | 0.000 | - |  | 0.000 | - |  | 0.000 | - |  | 0.000 |
| Subtotal: Hardware - <br> Distributed Common Ground/Surface Systems Cost | - |  | 0.000 | - | - | 0.400 | - |  | 0.000 | - |  | 0.000 | - |  | 0.000 | - |  | 0.000 |
| Gross/Weapon System Cost | - | - | 0.000 | - |  | 0.400 | - | - | 0.000 | - |  | 0.000 | - |  | 0.000 | - | - | 0.000 |

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| Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2021 Air Force |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Date: February 2020 |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3080F / 03 / 2 |  |  |  |  |  |  |  | P-1 Line Item Number / Title: 832070 / Intelligence Comm Equipment |  |  |  |  |  |  |  | Aggregated Items Title: <br> Network-Centric Collaborative Targeting |  |  |  |  |
|  |  |  |  | ior Year |  | FY 2019 |  |  | FY 2020 |  |  | FY 2021 Base |  |  | FY 2021 OCO |  |  | FY 2021 Total |  |  |
| Item Number / Title [DODIC] | $\begin{aligned} & \mathrm{ID} \\ & \mathrm{CD} \end{aligned}$ | $\begin{array}{\|c\|} \text { MDAP/ } \\ \text { MAIS } \\ \text { Code } \end{array}$ | 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 <br> (\$ 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) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total <br> Cost <br> (\$ M) | Unit Cost (\$ M) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost <br> (\$ M) |
| Uncategorized |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Network Centric Collaborative Targeting | A |  | - | - | - | - | - | 3.095 | - | - | 3.148 | - | - | 2.997 | - | - | - | - | - | 2.997 |
| Subtotal: Uncategorized |  |  | $\cdot$ | - | - | - | - | 3.095 | - | - | 3.148 | - | - | 2.997 | - | - | - | - | - | 2.997 |
| Total |  |  | - | - | - | - | - | 3.095 | - | - | 3.148 | - | - | 2.997 | - | - | - | - | - | 2.997 |

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| Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2021 Air Force ${ }^{\text {a }}$ D |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Date: February 2020 |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3080F / 03 / 2 |  |  |  |  |  |  |  | P-1 Line Item Number / Title: 832070 / Intelligence Comm Equipment |  |  |  |  |  |  |  | Aggregated Items Title: Intelligence Mission Data (IMD) |  |  |  |  |
|  |  |  | Prior Years |  |  | FY 2019 |  |  | FY 2020 |  |  | FY 2021 Base |  |  | FY 2021 OCO |  |  | FY 2021 Total |  |  |
| Item Number / Title [DODIC] | $\begin{aligned} & \mathrm{ID} \\ & \mathrm{CD} \end{aligned}$ | $\begin{array}{\|l} \text { MDAP/ } \\ \text { MAIS } \\ \text { Code } \end{array}$ | 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 $(\$ \mathrm{M})$ | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | Total Cost <br> (\$ M) | Unit Cost | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | Total Cost <br> (\$ M) | Unit Cost $(\$ M)$ | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | Total Cost (\$ M) | Unit Cost | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | $\begin{aligned} & \text { Total } \\ & \text { Cost } \\ & (\$ M) \\ & \hline \end{aligned}$ |
| Intelligence Mission Data (IMD) |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Operational Reconnaissance Data Automation | A |  | - | - | - | - | - | 0.301 | - | - | 0.000 | - | - | 0.476 | - | - | - | - | - | 0.476 |
| Intelligence Mission Data (IMD) Advanced NCTR Collect | A |  | - | - | - | - | - | 0.301 | - | - | 0.000 | - | - | 0.000 | - | - | - | - | - | 0.000 |
| Subtotal: Intelligence Mission Data (IMD) |  |  | - | - | - | - | - | 0.602 | - | - | 0.000 | - | - | 0.476 | - | - | - | - | - | 0.476 |
| Total |  |  | - | - | - | - |  | 0.602 | - | - | 0.000 | - | - | 0.476 | - | - | - | - | - | 0.476 |

UNCLASSIFIED

| Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2021 Air Force |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Date: February 2020 <br> Aggregated Items Title: <br> Space Superiority Intelligence |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3080F / 03 / 2 |  |  |  |  |  |  |  | P-1 Line Item Number / Title: 832070 / Intelligence Comm Equipment |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  | ior Yea |  | FY 2019 |  |  | FY 2020 |  |  | FY 2021 Base |  |  | FY 2021 OCO |  |  | FY 2021 Total |  |  |
| Item Number / Title [DODIC] | $\begin{aligned} & \mathrm{ID} \\ & \mathrm{CD} \end{aligned}$ | $\begin{aligned} & \text { MDAP/ } \\ & \text { MAIS } \\ & \text { code } \end{aligned}$ | 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) | 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) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | $\begin{aligned} & \text { Total } \\ & \text { Cost } \\ & (\$ M) \\ & \hline \end{aligned}$ |
| Space Superiority Intel |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Space Superiority Intel Activities | A |  | - | - | - | - | - | 0.285 | - | - | 0.000 | - | - | 0.000 | - | - | 0.000 | - | - | 0.000 |
| Subtotal: Space Superiority Intel |  |  | - | - | - | - | - | 0.285 | - | - | 0.000 | - | - | 0.000 | - | - | 0.000 | - | - | 0.000 |
| Total |  |  | - | - | - | - | - | 0.285 | - | - | 0.000 | - | - | 0.000 | - | - | 0.000 | - | - | 0.000 |

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Appropriation / Budget Activity / Budget Sub Activity:
3080F: Other Procurement, Air Force / BA 03: Electronics and Telecommunications
Equip / BSA 3: Electronics Programs

## P-1 Line Item Number / Title:

833010 / Air Traffic Control \& Landing Sys

## 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 2019 | FY 2020 | $\text { FY } 2021$ Base | $\begin{gathered} \text { FY } 2021 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \text { FY } 2021 \\ \text { Total } \end{gathered}$ | FY 2022 | FY 2023 | FY 2024 | FY 2025 | To Complete | Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Procurement Quantity (Units in Each) | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Cost (\$ in Millions) | - | 87.330 | 22.939 | 29.409 | - | 29.409 | 119.511 | 48.321 | 42.217 | 67.701 | - | 417.428 |
| Less PY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Net Procurement (P-1) (\$ in Millions) | - | 87.330 | 22.939 | 29.409 | - | 29.409 | 119.511 | 48.321 | 42.217 | 67.701 | - | 417.428 |
| Plus CY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Total Obligation Authority (\$ in Millions) | - | 87.330 | 22.939 | 29.409 | - | 29.409 | 119.511 | 48.321 | 42.217 | 67.701 | - | 417.428 |
| (The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.) |  |  |  |  |  |  |  |  |  |  |  |  |
| Initial Spares (\$ in Millions) | - | 1.074 | 1.394 | 1.451 | - | 1.451 | 5.804 | 1.916 | 1.639 | 1.670 | - | 14.948 |
| Flyaway Unit Cost (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Unit Cost (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |

## Description:




 Federal Aviation Administration (FAA), or host nations.
 defense missions, domestic emergency responses, and providing military support to civil authorities.

 output systems, electronic flight strip systems, air traffic information systems, terminal instrument procedures, and airfield management systems. Key elements of ATC OPS are:


 item by the Air Force Life Cycle Management Center at Tinker AFB. Approximately 5,400 radios will be replaced.



 each year.

## Appropriation / Budget Activity / Budget Sub Activity:

3080F: Other Procurement, Air Force / BA 03: Electronics and Telecommunications Equip / BSA 3: Electronics 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:

833010 / Air Traffic Control \& Landing Sys

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





 Air Traffic Control Tower, and mobile TACAN.






 schedule. With these systems, the AF will have a reliable, adaptable, and enduring capability that will support all joint, coalition, and civil operations.


 be procured through an existing Navy fixed price contract.
 approach to a runway in inclement weather. FY21 funds procure two systems for installation on new runway at Osan AB, Korea.

FY19 prior year funding totals include $\$ 23.484 \mathrm{M}$ appropriated for Overseas Contingency Operations.
FY21 funding request was reduced by $\$ 39.376$ million to account for the availability of prior year execution balances.
Funding for this exhibit is contained in Program Element (PE) 0305114F.

| Secondary Distribution |  | FY 2019 | FY 2020 | FY 2021 <br> Base | $\begin{aligned} & \text { FY } 2021 \\ & \text { OCO } \end{aligned}$ | $\begin{gathered} \text { FY } 2021 \\ \text { Total } \end{gathered}$ | FY 2022 | FY 2023 | FY 2024 | FY 2025 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| AF | Quantity | 126 | 483 | 646 | 0 | 646 | 972 | 270 | 459 | 1,015 |
|  | Total Obligation Authority | 74.352 | 20.147 | 25.618 | 0.000 | 25.618 | 110.483 | 48.321 | 42.217 | 67.701 |
| AFNG | Quantity | 51 | 100 | 199 | 0 | 199 | 150 | 0 | 0 | 0 |
|  | Total Obligation Authority | 12.258 | 1.860 | 3.791 | 0.000 | 3.791 | 9.028 | 0.000 | 0.000 | 0.000 |
| AFR | Quantity | 40 | 50 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|  | Total Obligation Authority | 0.720 | 0.932 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| Total: | Quantity | 217 | 633 | 845 | 0 | 845 | 1,122 | 270 | 459 | 1,015 |

UNCLASSIFIED

| Exhibit P-40, Budget Line Item Justification: PB 2021 Air Force |  |  |  |  |  |  |  | Date: February 2020 |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: <br> 3080F: Other Procurement, Air Force / BA 03: Electronics and Telecommunications Equip / BSA 3: Electronics Programs |  |  |  |  | P-1 Line Item Number / Title: 833010 / Air Traffic Control \& Landing Sys |  |  |  |  |  |
| ID Code (A=Service Ready | 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 |  |  |  |  |  |  |  |  |  |  |
| Secondary Distribution |  | FY 2019 | FY 2020 | $\begin{gathered} \hline \text { FY } 2021 \\ \text { Base } \end{gathered}$ | $\begin{aligned} & \text { FY } 2021 \\ & \text { OCO } \end{aligned}$ | $\begin{gathered} \text { FY } 2021 \\ \text { Total } \end{gathered}$ | FY 2022 | FY 2023 | FY 2024 | FY 2025 |
| Secondary Distribution | Total Obligation Authority | 87.330 | 22.939 | 29.409 | 0.000 | 29.409 | 119.511 | 48.321 | 42.217 | 67.701 |

Exhibit P-40, Budget Line Item Justification: PB 2021 Air Force
Date: February 2020
Appropriation / Budget Activity / Budget Sub Activity:
3080F: Other Procurement, Air Force / BA 03: Electronics and Telecommunications
Equip / BSA 3: Electronics Programs

## P-1 Line Item Number / Title:

833010 / Air Traffic Control \& Landing Sys Equip / BSA 3: Electronics 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 2019 | FY 2020 | FY 2021 Base | FY 2021 OCO | FY 2021 Total |
| Exhibit Type | Title* | Subexhibits | $\begin{array}{\|l\|l\|} \hline \text { ID } \\ \text { CD } \end{array}$ | MDAP/ MAIS Code | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) |
| P-40a | Digital Air Traffic Control Radio Replacement |  |  |  | - 1 - | 14.234 | - /12.576 | - / 16.775 | - 1 | / 16.775 |
| P-5 | D-ILS |  | A |  | - 1 - | $2 / 27.084$ | - 15.000 | - 11.502 | - 1 - | - 11.502 |
| P-5 | Deployable Radar Approach Control (D-RAPCON) |  | A |  | 1 | $1 / 51.012$ | - 15.363 | - 10.062 | - 10.000 | - 10.062 |
| P-40a | Fixed Base ILS |  |  |  | - 1 - | - 10.000 | - 10.000 | - 11.498 | - 10.000 | - 11.498 |
| P-40a | Fixed Base Precision Approach Radar (PAR) |  |  |  | - 1 - | - 15.000 | - 10.000 | - 19.572 | - 1 | - 19.572 |
| P-40 | Total Gross/Weapon System Cost |  |  |  | - 1 - | - 187.330 | - 122.939 | - 129.409 | 1 | - 129.409 |

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

## Justification:

This program, Air Traffic Control \& Landing Sys P-40A Category Fixed Base Instrument Landing System Item AN/GRN-29 ILS, is a new start.

1. DIGITAL AIR TRAFFIC CONTROL (ATC) RADIO REPLACEMENT: FY21 funds procure 881 systems ( 682 AD/199 ANG/0 AFR).
2. ATCALS Fixed Base (FB) Navigational Aids (NAVAIDS) Family of Systems (FOS): No Budget Year FY21 funds requested.
3. DEPLOYABLE INSTRUMENT LANDING SYSTEM (D-ILS): FY21 - Funds procure program management/office support.
4. DEPLOYABLE RADAR APPROACH CONTROL (D-RAPCON): No Budget Year FY21 funds requested.
5. FIXED BASE PRECISION APPROACH RADAR (PAR): FY21 funds procure 2 systems (2 AD/0 ANG/0 AFR).
6. FIXED BASE INSTRUMENT LANDING SYSTEM (FB ILS): FY21 funds procure 2 system (2 AD/0 ANG/0 AFR).

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| Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2021 Air Force |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Date: February 2020 <br> Aggregated Items Title: <br> Digital Air Traffic Control Radio Replacement |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity:$\text { 3080F / } 03 \text { / } 3$ |  |  |  |  |  |  |  | P-1 Line Item Number / Title: <br> 833010 / Air Traffic Control \& Landing Sys |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  | Prior Years |  |  | FY 2019 |  |  | FY 2020 |  |  | FY 2021 Base |  |  | FY 2021 OCO |  |  | FY 2021 Total |  |  |
| Item Number / Title [DODIC] | $\begin{aligned} & \text { ID } \\ & \text { CD } \end{aligned}$ | MDAP/ MAIS 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 (\$ 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) |
| Digital Air Traffic Control (ATC) Radios - Support |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Digital Air Traffic Control (ATC) Radios - Program Management Support | A |  | - | - | - | - | - | 0.400 | - | - | 0.800 | - | - | 0.791 | - | - | - | - | - | 0.791 |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | - |  | - | 0.400 |  | - | 0.800 |  | - | 0.791 |  | - | - |  | - | 0.791 |
| Subtotal: Digital Air Traf (ATC) Radios - Support | fic Cor |  | - | - | - | - | - | 0.400 | - | - | 0.800 | - | - | 0.791 | - | - | - | - | - | 0.791 |
| Digital Air Traffic Control (ATC) Radios |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Single Channel ATC <br> Radio | A |  | - | - | - | 0.018 | 213 | $3 \quad 3.834$ | 0.019 | 633 | 11.776 | 0.019 | 841 | 15.984 | - | - | - | 0.019 | 841 | 15.984 |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | - |  | 123 | 退 2.214 |  | 483 | 8.984 |  | 642 | 12.193 |  | - | - |  | 642 | 12.193 |
| AFNG |  |  |  | - | - |  | 50 | 0 0.900 |  | 100 | 1.860 |  | 199 | 3.791 |  | - | - |  | 199 | 3.791 |
| AFR |  |  |  | - | - |  | 40 | 00.720 |  | 50 | 0.932 |  | - | - |  | - | - |  | - | - |
| Subtotal: Digital Air Traffic Control (ATC) Radios |  |  | - | - | - | - | - | 3.834 | - | - | 11.776 | - | - | 15.984 | - | - | - | - | - | 15.984 |
| Total |  |  | - | - |  | - | - | 4.234 | - | - | 12.576 | - | - | 16.775 | - | - | - | $\cdot$ | - | 16.775 |
| Note: Subtotals or Totals in this Exhibit P-40a may not be exact or sum exactly, due to rounding. <br> Remarks: <br> Radios are identified in supply system as centrally managed are being procured by the Air Force Life cycle Management Center at Tinker AFB through an FAA contract awarded to General Dynamics with fixed price options extending through 2022. |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

## UNCLASSIFIED

Exhibit P-5, Cost Analysis: PB 2021 Air Force

## Appropriation / Budget Activity / Budget Sub Activity:

 3080F / 03 / 3ID Code (A=Service Ready, B=Not Service Ready) : A


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| Exhibit P-5, Cost Analysis: PB 2021 Air Force |  |  |  |  | Date: February 2020 <br> Item Number / Title [DODIC]: <br> D-ILS |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation 3080F / 03 / 3 | / Budget Sub Activity: | P-1 Line Item Number / Title: <br> 833010 / Air Traffic Control \& Landing Sys |  |  |  |  |
| ID Code (A=Service Ready, B=Not Service Ready) : A |  |  | MDAP/MAIS Code: |  |  |  |
| Secondary Distribution |  | FY 2019 | FY 2020 | $\begin{gathered} \text { FY } 2021 \\ \text { Base } \end{gathered}$ | $\begin{aligned} & \text { FY } 2021 \\ & \text { OCO } \end{aligned}$ | $\begin{gathered} \hline \text { FY } 2021 \\ \text { Total } \end{gathered}$ |
| AF | Quantity | 1 | - | - | - - | - |
|  | Total Obligation Authority | 15.726 | 5.000 | 1.502 | 2 | 1.502 |
| AFNG | Quantity | 1 | - | - | - | - |
|  | Total Obligation Authority | 11.358 | 0.000 | 0.000 | 0 | 0.000 |
| AFR | Quantity | - | - | - | - | - |
|  | Total Obligation Authority | 0.000 | 0.000 | 0.000 | 0 | 0.000 |
| Total: <br> Secondary Distribution | Quantity | 2 | - | - | - | - |
|  | Total Obligation Authority | 27.084 | 5.000 | 1.502 | 2 | 1.502 |

Footnotes:
${ }^{(1)}$ Firm Fixed Price (FFP) contract with production option.


| Exhibit P-5, Cost Analysis: PB 2021 Air Force |  |  |  |  | Date: February 2020 |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3080F / 03 / 3 |  | P-1 Line Item Number / Title: <br> 833010 / Air Traffic Control \& Landing Sys |  |  | Item Number / Title [DODIC]: <br> Deployable Radar Approach Control (DRAPCON) |  |
| ID Code (A=Service Ready, B=Not Service Ready) : A |  |  | MDAP/MAIS Code: |  |  |  |
| Remarks: <br>  latest Non-Advocate Cost Assessment (NACA). |  |  |  |  |  |  |
| Secondary Distribution |  | FY 2019 | FY 2020 | $\begin{aligned} & \text { FY } 2021 \\ & \text { Base } \end{aligned}$ | $\begin{aligned} & \text { FY } 2021 \\ & \text { OCO } \end{aligned}$ | $\begin{aligned} & \text { FY } 2021 \\ & \text { Total } \end{aligned}$ |
| AF | Quantity | 1 | - | - | - | - |
|  | Total Obligation Authority | 51.012 | 5.363 | 0.062 | 20.000 | 0.062 |
| AFNG | Quantity | - | - | - | - - | - |
|  | Total Obligation Authority | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| AFR | Quantity | - | - | - | - | - |
|  | Total Obligation Authority | 0.000 | 0.000 | 0.000 | 00.000 | 0.000 |
| Total: <br> Secondary Distribution | Quantity | 1 | - | - | - | - |
|  | Total Obligation Authority | 51.012 | 5.363 | 0.062 | $2 \quad 0.000$ | 0.062 |

UNCLASSIFIED

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Date: February 2020 <br> Aggregated Items Title: Fixed Base ILS |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3080F / 03 / 3 |  |  |  |  |  |  |  | P-1 Line Item Number / Title: 833010 / Air Traffic Control \& Landing Sys |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  | ior Yea |  | FY 2019 |  |  | FY 2020 |  |  | FY 2021 Base |  |  | FY 2021 OCO |  |  | FY 2021 Total |  |  |
| Item Number / Title [DODIC] | $\begin{aligned} & \mathrm{ID} \\ & \mathrm{CD} \end{aligned}$ | $\begin{array}{\|l\|} \text { MDAPII } \\ \text { MAIS } \\ \text { code } \\ \hline \end{array}$ | $\begin{array}{\|c} \text { Unit Cost } \\ (\$ M) \end{array}$ | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | 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) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | 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) |
| Fixed Base Instrument Landing System |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AN/GRN-29 LLS | A |  | - | - | - | - | - | 0.000 | - | - | 0.000 | 0.749 | 2 | 1.498 | - | - | 0.000 | 0.749 | 2 | 1.498 |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | - |  | - | 0.000 |  | - | 0.000 |  | 2 | 1.498 |  | - | 0.000 |  | 2 | 1.498 |
| Subtotal: Fixed Base Instrument Landing System |  |  | - | - | - | - |  | 0.000 | - | - | 0.000 | - | - | 1.498 | - | - | 0.000 | - | - | 1.498 |
| Total |  |  | - | - | - | - | - | 0.000 | - | - | 0.000 | - | - | 1.498 | - | - | 0.000 | - | - | 1.498 |

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| Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2021 Air Force ${ }^{\text {a }}$ D |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Date: February 2020 <br> Aggregated Items Title: <br> Fixed Base Precision Approach Radar (PAR) |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3080F / 03 / 3 |  |  |  |  |  |  | P-1 Line Item Number / Title: 833010 / Air Traffic Control \& Landing Sys |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  | rior Yea |  | FY 2019 |  |  | FY 2020 |  |  | FY 2021 Base |  |  | FY 2021 OCO |  |  | FY 2021 Total |  |  |
| Item Number / Title [DODIC] | $\begin{array}{\|c\|c\|}  & \text { MDAPI } \\ \text { ID } & \text { MAIS } \\ \text { CD } & \text { Code } \\ \hline \end{array}$ | Unit Cost (\$ M) | $\begin{gathered} \text { Qty } \\ (\text { (Each) } \end{gathered}$ | Total Cost (\$ M) | Unit Cost (\$ M) | $\begin{gathered} \text { Qty } \\ (\text { (Each) } \end{gathered}$ | $\begin{aligned} & \hline \text { Total } \\ & \text { Cost } \\ & (\$ M) \\ & \hline \end{aligned}$ | Unit Cost (\$ M) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | Total Cost (\$ M) | Unit Cost (\$ M) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | $\begin{aligned} & \hline \text { Total } \\ & \text { Cost } \end{aligned}$ $(\$ M)$ | Unit Cost (\$M) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \\ & \hline \end{aligned}$ | $\begin{aligned} & \text { Total } \\ & \text { Cost } \\ & (\$ M) \\ & \hline \end{aligned}$ | Unit Cost (\$M) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | Total Cost <br> (\$ M) |
| Fixed Base Precision Approach Radar (PAR) |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Precision Approach Radar | A | - |  |  | 5.000 |  | $1{ }^{1} 5.000$ | - |  | 0.000 | 4.786 | 2 | 9.572 | - | - | - | 4.786 | 2 | 9.572 |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - |  |  | $1{ }^{1} 5.000$ |  | - | 0.000 |  | 2 | 9.572 |  | - | - |  | 2 | 9.572 |
| Subtotal: Fixed Base Precision Approach Radar (PAR) |  | - |  |  | - |  | 5.000 | - |  | 0.000 | - | - | 9.572 | - | - | - | - | - | 9.572 |
| Note: Subtotals or Totals in this Exhibit P-40a may not be exact or sum exactly, due to rounding. <br> Remarks: <br> FY19 funds Congressional add. System being procured through existing Fixed Price Navy Contract. |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

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Exhibit P-40, Budget Line Item Justification: PB 2021 Air Force
Date: February 2020
Appropriation / Budget Activity / Budget Sub Activity:
3080F: Other Procurement, Air Force / BA 03: Electronics and Telecommunications
Equip / BSA 3: Electronics Programs

## P-1 Line Item Number / Title:

 833030 / Battle Control System - Fixed Equip / BSA 3: Electronics 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 2019 | FY 2020 | $\text { FY } 2021$ <br> Base | $\begin{gathered} \text { FY } 2021 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \text { FY } 2021 \\ \text { Total } \end{gathered}$ | FY 2022 | FY 2023 | FY 2024 | FY 2025 | To Complete | Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Procurement Quantity (Units in Each) | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Cost (\$ in Millions) | - | 2.846 | 3.063 | 7.909 | - | 7.909 | 3.172 | 3.228 | 3.287 | 3.348 | - | 26.853 |
| Less PY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Net Procurement (P-1) (\$ in Millions) | - | 2.846 | 3.063 | 7.909 | - | 7.909 | 3.172 | 3.228 | 3.287 | 3.348 | - | 26.853 |
| Plus CY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Total Obligation Authority (\$ in Millions) | - | 2.846 | 3.063 | 7.909 | - | 7.909 | 3.172 | 3.228 | 3.287 | 3.348 | - | 26.853 |
| (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:

BCS-F supports the North American Aerospace Defense Command/ Northern Command (NORAD/NORTHCOM) homeland defense and air sovereignty mission for fixed Air Defense Sectors.
BATTLE CONTROL SYSTEM-FIXED (BCS-F): BCS-F is a Bi-national program with Canada. The BCS-F Program is an AF Homeland Defense battle management command and control system with the capability to integrate data from existing and future civil and military defense surveillance systems into a comprehensive air picture. BCS-F provides tactical communications and data link capabilities with other military and civil systems responsible for planning, directing, coordinating and controlling forces for air surveillance, air defense, and control of sovereign US air space. This integrated air picture enhances the capability to conduct peacetime air sovereignty operations and transition to active air defense operations in the event of aggression. Life cycle replacement will be required to prevent system obsolescence, account for new cyber security requirements and posture the program to seamlessly integrate future capabilities.

NATIONAL CAPITOL REGION - INTEGRATED AIR DEFENSE SYSTEM (NCR-IADS): NCR-IADS is a post-September 11, 2001 rapidly fielded capability that improves low altitude detection capability in order to prosecute airborne threats to the NCR. NCR-IADS provides ground-based air defense of the National Capitol Region airspace, and provides an integrated air picture, ground air defense weapons, enhanced regional situational awareness and forensic data collection capabilities for the warfighter mission to protect the NCR. Life cycle replacement will be required, to prevent system obsolescence, account for new cyber security requirements and posture the program to seamlessly integrate future capabilities.

BATTLE CONTROL SYSTEM MODERNIZATION: Provides for capital equipment replacement activities at the fixed Air Defense Sectors under the modification efforts for Release 3.2 .5 and beyond, which include, but are not limited to: infrastructure upgrades, future Diminishing Manufacturing Sources (DMS), and replacement of other equipment that does not qualify for Centralized Asset Management (CAM) funding.

## Justification:

- NATIONAL CAPITAL REGION - INTEGRATED AIR DEFENSE SYSTEM (NCR-IADS): FY2021 funds will include, but are not limited to, support hardware upgrades to seamlessly integrate new and emerging sensors, data, and technologies. Funds will be utilized for hardware upgrades and spares that do not qualify for Centralized Asset Management (CAM) funding, updated configurations of existing sites to match the modified baseline, and hardware to maintain the mandated cyber security posture and Authority to Operate (ATO) requirements.

| Exhibit P-40, Budget Line Item Justification: PB 2021 Air Force | Date: February 2020 |
| :--- | :--- |


| Appropriation / Budget Activity / Budget Sub Activity: | P-1 Line Item Number / Title: <br> 3080F: Other Procurement, Air Force / BA 03: Electronics and Telecommunications <br> Equip / BSA 3: Electronics Programs |
| :--- | :--- |
| 833030 / Battle Control System - Fixed |  |

Equip / BSA 3: Electronics 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


 hardware to maintain the mandated cyber security posture and Authority to Operate (ATO) requirements.

- PROGRAM MANAGEMENT ADMINISTRATION (PMA): FY2021 funds for PMA costs provide the management, engineering and technical support for the program office.


Exhibit P-40, Budget Line Item Justification: PB 2021 Air Force
Date: February 2020

## Appropriation / Budget Activity / Budget Sub Activity:

3080F: Other Procurement, Air Force / BA 03: Electronics and Telecommunications Equip / BSA 3: Electronics 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:

833040 / Theater Air Control Sys Improvemen

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


| Resource Summary | Prior <br> Years | FY 2019 | FY 2020 | $\begin{gathered} \text { FY } 2021 \\ \text { Base } \end{gathered}$ | $\begin{gathered} \text { FY } 2021 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \text { FY } 2021 \\ \text { Total } \end{gathered}$ | FY 2022 | FY 2023 | FY 2024 | FY 2025 | To Complete | Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Procurement Quantity (Units in Each) | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Cost (\$ in Millions) | 47.106 | 7.346 | 0.000 | 32.632 | - | 32.632 | 43.917 | 20.404 | 8.722 | 215.679 | - | 375.806 |
| Less PY Advance Procurement (\$ in Millions) | 0.000 | - | - | - | - | - | - | - | - | - | - | 0.000 |
| Net Procurement (P-1) (\$ in Millions) | 47.106 | 7.346 | 0.000 | 32.632 | - | 32.632 | 43.917 | 20.404 | 8.722 | 215.679 | - | 375.806 |
| Plus CY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Total Obligation Authority (\$ in Millions) | 47.106 | 7.346 | 0.000 | 32.632 | - | 32.632 | 43.917 | 20.404 | 8.722 | 215.679 | - | 375.806 |
| (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:

CONTROL AND REPORTING CENTER (CRC)
The CRC is a mobile, ground-based theater air control system (TACS) surveillance and battle management command and control (BMC2) element. It is a customizable, modular, transportable, and persistent weapon system employed at the tactical level to support air and surface operations to provide direct command and control to all air assets in an assigned Area of Responsibility (AOR) and to report back to the Joint Force Air Combat Commander (JFACC). The CRC is a family of systems which include: AN/TYQ-23A(V)1 Tactical Air Operations Module (TAOM), AN/TSC-147, AN/TRC-213/214 Remote Radio Secure Voice System (RRSVS), and the AN/TPS-75 Radar, CRC's organic radar. Air Combat Command (ACC) CRC Capability Roadmap provides for the modernization of this family of systems and will be programmed into phased updates through 2037. Funding may be used to address Diminishing Manufacturing Sources and Material Shortages (DMSMS) issues.

In order to meet warfighter requirements, the CRC will be modernized incrementally. These efforts are projected to begin in FY21: AN/TRC-213/214 RRSVS radio modernization production and European Defense Initiative (EDI).

Funding for this exhibit contained in PE 0207412F.

| Secondary Distribution |  | FY 2019 | FY 2020 | $\begin{gathered} \text { FY } 2021 \\ \text { Base } \end{gathered}$ | $\begin{aligned} & \text { FY } 2021 \\ & \text { OCO } \end{aligned}$ | $\begin{gathered} \text { FY } 2021 \\ \text { Total } \end{gathered}$ | FY 2022 | FY 2023 | FY 2024 | FY 2025 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| AF | Quantity | - | - | 9 | 0 | 9 | - | - | - | - |
|  | Total Obligation Authority | 4.213 | 0.000 | 27.412 | 0.000 | 27.412 | 11.001 | 7.464 | 6.112 | 161.292 |
| AFNG | Quantity | - | - | 0 | 0 | 0 | - | - | - | - |
|  | Total Obligation Authority | 3.133 | - | 5.220 | 0.000 | 5.220 | 7.860 | 12.940 | 2.610 | 54.387 |
| AFR | Quantity | - | - | 0 | 0 | 0 | - | - | - | - |
|  | Total Obligation Authority | - | - | 0.000 | 0.000 | 0.000 | - | - | - | - |
| Total: | Quantity | - | - | 9 | 0 | 9 | - | - | - | - |

UNCLASSIFIED

| Exhibit P-40, Budget Line Item Justification: PB 2021 Air Force |  |  |  |  |  |  |  | Date: February 2020 |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: <br> 3080F: Other Procurement, Air Force / BA 03: Electronics and Telecommunications Equip / BSA 3: Electronics Programs |  |  |  |  | P-1 Line Item Number / Title: <br> 833040 / Theater Air Control Sys Improvemen |  |  |  |  |  |
| ID Code (A=Service Ready | Not Service Ready): A | Program Elements for Code B Items: N/A |  |  |  | Other Related Program Elements: 0207412F |  |  |  |  |
| Line Item MDAP/MAIS Code: N/A |  |  |  |  |  |  |  |  |  |  |
| Second | Distribution | FY 2019 | FY 2020 | $\begin{gathered} \text { FY } 2021 \\ \text { Base } \end{gathered}$ | $\begin{gathered} \text { FY } 2021 \\ \text { OCO } \end{gathered}$ | $\begin{aligned} & \hline \text { FY } 2021 \\ & \text { Total } \end{aligned}$ | FY 2022 | FY 2023 | FY 2024 | FY 2025 |
| Secondary Distribution | Total Obligation Authority | 7.346 | 0.000 | 32. | 0.000 | 32.632 | 18.861 | 20.404 | 8.722 | 215.679 |

## Appropriation / Budget Activity / Budget Sub Activity:

3080F: Other Procurement, Air Force / BA 03: Electronics and Telecommunications Equip / BSA 3: Electronics Programs

| ID Code (A=Service Ready, B=Not Service Ready): A | Program Elements for Code B Items: N/A | Other Related Program Elements: 0207412F |
| :--- | :--- | :--- |

Line Item MDAP/MAIS Code: N/A

| Exhibits Schedule |  |  |  |  | Prior Years | FY 2019 | FY 2020 | FY 2021 Base | FY 2021 OCO | FY 2021 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 | Theater Air Control System Improvement |  |  |  | - / 47.106 | - 17.346 | - 10.000 | - 10.000 | - 10.000 | - 10.000 |
| P-3a | $1 / \mathrm{CRC} \mathrm{RRSVS} \mathrm{RADIO} \mathrm{MOD} \mathrm{UPGRADE} \mathrm{(Other)}$ |  | A |  | - 1 - | - 1 - | - 1 - | - /13.374 | - 10.000 | - /13.374 |
| P-40a | Theater Air Control System Improvement |  |  |  | 1 - | - 1 - | - 1 | - / 19.258 | - 1 | - / 19.258 |
| P-40 | Total Gross/Weapon System Cost |  |  |  | - 147.106 | - 17.346 | - 10.000 | - 132.632 | 1 | - 132.632 |
| Exhibits Schedule |  |  |  |  | FY 2022 | FY 2023 | FY 2024 | FY 2025 | 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 | Theater Air Control System Improvement |  |  |  | - 10.000 | - 10.000 | - 10.000 | - 10.000 | - 10.000 | - 154.452 |
| P-3a | 1/CRC RRSVS RADIO MOD UPGRADE (Other) |  | A |  | - /18.861 | - 120.404 | - 18.722 | - 1215.679 | - 1 | - 1277.040 |
| P-40a | Theater Air Control System Improvement |  |  |  | - 1 - | - 1 - | - 1 - | - 1 - | - 1 - | - 1 |
| P-40 | Total Gross/Weapon System Cost |  |  |  | - / 43.917 | - 120.404 | - 18.722 | - 1215.679 | 1 | - 1375.806 |

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

## Justification:

This program, Theater Air Control Sys Improvemen P-40A Category European Defense Initiative Item Army Persistent Long-Range Surveillance Sensor, is a new start.
This program, Theater Air Control Sys Improvemen P-40A Category European Defense Initiative Item MPQ-64F1 Sentinel Radar, is a new start.
This program, Theater Air Control Sys Improvemen P-40A Category European Defense Initiative Item JADOC, is a new start.
This program, Theater Air Control Sys Improvemen P-40A Category European Defense Initiative Item TORCC, is a new start.
This program, Theater Air Control Sys Improvemen P-40A Category European Defense Initiative Item EO/IR Cameras, is a new start.
This program, TACSI Mods, P-3A Mod CRC04, CRC RRSVS RADIO MOD UPGRADE, is a new start.
FY21 funding supports:

 interface, interoperability with required crypto equipment, combine channel inputs, enable operators to use J-voice, full IP capability, and allow for external VoIP/VoSIP connectivity.
 Resilient C2 systems (TORCC), a MPQ-64F1 Sentinel Radar and EO/IR Cameras.

Efforts with funding starting in FY 2022 through FY 2025 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 2022 Cost Delta: 25.056 million

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| Exhibit P-40, Budget Line Item Justification: PB 2021 Air Force | Date: February 2020 |  |
| :--- | :--- | :--- |
| Appropriation / Budget Activity / Budget Sub Activity: | P-1 Line Item Number / Title: |  |
| 3080F: Other Procurement, Air Force / BA 03: Electronics and Telecommunications | 833040 / Theater Air Control Sys Improvemen |  |
| Equip / BSA 3: Electronics Programs |  |  |

ID Code (A=Service Ready, B=Not Service Ready): A
Program Elements for Code B Items: N/A
Other Related Program Elements: 0207412F
Line Item MDAP/MAIS Code: N/A
${ }^{\text {(b) }}$ FY Total Cost Delta: 44.314 million

## UNCLASSIFIED

| Exhibit P-40a, Budget Item Justification For Aggregated Modification Items: PB 2021 Air Force |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Date: February 2020 |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3080F / 03 / 3 |  |  |  |  |  |  |  | P-1 Line Item Number / Title: <br> 833040 / Theater Air Control Sys Improvemen |  |  |  |  |  |  |  | Aggregated Modification Items Title: <br> Theater Air Control System Improvement |  |  |  |  |
|  | $\begin{aligned} & \text { ID } \\ & \text { CD } \end{aligned}$ | MDAP/ MAIS Code | Prior Years |  |  | FY 2019 |  |  | FY 2020 |  |  | FY 2021 Base |  |  | FY 2021 OCO |  |  | FY 2021 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) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | 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) |
| CRC01 / CRC Phase 1 |  |  | - | - | 18.783 | - | - | 3.405 | - | - | 0.000 | - | - | 0.000 | - | - | 0.000 | - | - | 0.000 |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | - |  | - | 0.272 |  | - | 0.000 |  | - | 0.000 |  | - | 0.000 |  | - | 0.000 |
| AFNG |  |  |  | - | - |  | - | 3.133 |  | - | 0.000 |  | - | 0.000 |  | - | - |  | - | 0.000 |
| $\begin{aligned} & \text { TYQ23A / AN/TYQ23A } \\ & \text { OM MOD } \end{aligned}$ |  |  | - | - | 28.323 | - | - | 3.941 | - | - | - | - | - | - | - | - | - | - | - | - |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | - |  | - | 3.941 |  | - | - |  | - | - |  | - | - |  | - | - |
| Total |  |  | - | - | 47.106 | - | - | 7.346 | - | - | 0.000 | - | - | 0.000 | - | $\cdot$ | 0.000 | - | - | 0.000 |
|  |  |  | FY 2022 |  |  | FY 2023 |  |  | FY 2024 |  |  | FY 2025 |  |  | To Complete |  |  | Total Cost |  |  |
| Item Number / Title | $\begin{aligned} & \text { ID } \\ & \text { CD } \end{aligned}$ | MDAP/ MAIS Code | Unit Cost (\$ M) | Qty <br> (Each) | 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 (\$ M) | Unit Cost (\$ M) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost <br> (\$ M) |
| CRC01 / CRC Phase 1 |  |  | - | - | 0.000 | - | - | - - | - | - | - | - | - | - | - | - | - | - | - | 22.188 |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | 0.000 |  | - | - - |  | - | - |  | - | - |  | - | - |  | - | - |
| AFNG |  |  |  | - | 0.000 |  | - | - |  | - | - |  | - | - |  | - | - |  | - | - |
| $\begin{aligned} & \text { TYQ23A / AN/TYQ23A } \\ & \text { OM MOD } \end{aligned}$ |  |  | - | - | - | - | - | - - | - | - | - | - | - | - | - | - | - | - | - | 32.264 |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | - |  | - | - - |  | - | - |  | - | - |  | - | - |  | - | - |
| Total |  |  | - | - | 0.000 | - | - | 0.000 | - | - | 0.000 | - | - | 0.000 | - | - | 0.000 | - | - | 54.452 |

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 |
| :--- | :--- | :--- |
| CRC01 / CRC Phase 1 | CRCPhase1 | Other |
| TYQ23A / AN/TYQ23A OM MOD | OMMOD | Other |


| Exhibit P-3a, Individual Modification: PB 2021 Air Force |  |  |  |  |  |  |  |  | Date: February 2020 |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3080F / 03 / 3 |  |  |  | P-1 Line Item Number / Title: 833040 / Theater Air Control Sys Improvemen |  |  |  |  | Modification Number / Title: 1 / CRC RRSVS RADIO MOD UPGRADE |  |  |  |
| ID Code (A=Service Ready, B=Not Service Ready) : A |  |  |  |  |  | MDAP/MAIS Code: |  |  |  |  |  |  |
| Resource Summary | Prior <br> Years | FY 2019 | FY 2020 | $\text { FY } 2021$ Base | $\begin{gathered} \text { FY } 2021 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \text { FY } 2021 \\ \text { Total } \end{gathered}$ | FY 2022 | FY 2023 | FY 2024 | FY 2025 | To Complete | Total |
| Procurement Quantity (Units in Each) | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Cost (\$ in Millions) | - | - | - | 13.374 | 0.000 | 13.374 | 18.861 | 20.404 | 8.722 | 215.679 | - | 277.040 |
| Less PY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Net Procurement (P-1) (\$ in Millions) | - | - | - | 13.374 | 0.000 | 13.374 | 18.861 | 20.404 | 8.722 | 215.679 | - | 277.040 |
| Plus CY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Total Obligation Authority (\$ in Millions) | - | - | - | 13.374 | 0.000 | 13.374 | 18.861 | 20.404 | 8.722 | 215.679 | - | 277.040 |
| (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, TACSI Mods, P-3A Mod CRC04, CRC RRSVS RADIO MOD UPGRADE, is a new start.
Radios that include upgraded software located in AN/TRC-213 (V) 3 that will operate with an upgraded AN/TRC-214 will be purchased. This will allow AN/TRC-214 to utilize the Mobile User Objective System (MUOS) constellation of satellites, support Integrated Waveform (IW), Second generation Anti-jam Tactical Ultra high frequency Radio for NATO (SATURN), Ensure sufficient channel capacity for remote radio interface, interoperability with required crypto equipment, combine channel inputs, enable operators to use J-voice, full IP capability, and allow for external VoIP/VoSIP connectivity.

Milestone/Development Status
N/A

| Secondary Distribution |  | FY 2019 | FY 2020 | $\begin{gathered} \text { FY } 2021 \\ \text { Base } \end{gathered}$ | $\begin{aligned} & \hline \text { FY } 2021 \\ & \text { OCO } \end{aligned}$ | $\begin{gathered} \hline \text { FY } 2021 \\ \text { Total } \end{gathered}$ | FY 2022 | FY 2023 | FY 2024 | FY 2025 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| AF | Quantity | - | - | - | - | - | - | - | - |  |
|  | Total Obligation Authority | - | - | 8.154 | - | 8.154 | 11.001 | 7.464 | 6.112 | 161.292 |
| AFNG | Quantity | - | - | - | - | - | - | - | - | - |
|  | Total Obligation Authority | - | - | 5.220 | - | 5.220 | 7.860 | 12.940 | 2.610 | 54.387 |
| Total: <br> Secondary Distribution | Quantity | - | - | - | - | - | - | - | - | - |
|  | Total Obligation Authority | - | $\cdot$ | 13.374 | 0.000 | 13.374 | 18.861 | 20.404 | 8.722 | 215.679 |


| Exhibit P-3a, Individual Modification: PB 2021 Air Force |  |  |  |  |  |  |  |  | Date: February 2020 |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3080F / 03 / 3 |  |  | P-1 Line Item Number / Title: <br> 833040 / Theater Air Control Sys Improvemen |  |  |  |  |  | Modification Number / Title: 1 / CRC RRSVS RADIO MOD UPGRADE |  |  |  |
| ID Code (A=Service Ready, B=Not Service Ready) : A |  |  |  |  | MDAP/MAIS Code: |  |  |  |  |  |  |  |
| Models of Systems Affected: RRSVSRadioModernization |  | Modification Type: Other |  |  | Related RDT\&E PEs: 0207412F |  |  |  |  |  |  |  |
|  | Prior Years | FY 2019 | FY 2020 | $\begin{gathered} \hline \text { FY } 2021 \\ \text { Base } \end{gathered}$ | $\begin{gathered} \text { FY } 2021 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \hline \text { FY } 2021 \\ \text { Total } \end{gathered}$ | FY 2022 | FY 2023 | FY 2024 | FY 2025 | To Complete | Total |
| Financial Plan | $\begin{gathered} \text { Oty (Each) I } \\ \text { Total Cost (\$ M) } \end{gathered}$ | Qty (Each) I Total Cost (\$ M) | $\begin{gathered} \text { Oty (Each) I } \\ \text { Total Cost (\$ M) } \end{gathered}$ | $\begin{array}{\|c\|} \hline \text { Qty (Each) I } \\ \text { Total Cost (\$ M) } \end{array}$ | $\begin{array}{\|c\|} \hline \text { Qty (Each) I } \\ \text { Total Cost (\$M) } \end{array}$ | $\begin{gathered} \text { Oty (Each) I } \\ \text { Total Cost }(\$ M) \\ \hline \end{gathered}$ | $\begin{gathered} \text { Qty (Each) I } \\ \text { Total Cost (\$ M) } \end{gathered}$ | $\begin{gathered} \text { Oty (Each) I } \\ \text { Total Cost (\$ M) } \end{gathered}$ | $\begin{gathered} \text { Oty (Each) I } \\ \text { Total Cost (\$ M) } \\ \hline \end{gathered}$ | $\begin{gathered} \text { Qty (Each) I } \\ \text { Total Cost (\$ M) } \end{gathered}$ | $\begin{gathered} \text { Qty (Each) I } \\ \text { Total Cost (\$ M) } \end{gathered}$ | $\begin{gathered} \text { Qty (Each) I } \\ \text { Total Cost (\$ M) } \end{gathered}$ |
| Procurement |  |  |  |  |  |  |  |  |  |  |  |  |
| Modification Item 1 of 1: RRSVS Radio Modernization |  |  |  |  |  |  |  |  |  |  |  |  |
| B Kits |  |  |  |  |  |  |  |  |  |  |  |  |
| Recurring |  |  |  |  |  |  |  |  |  |  |  |  |
| RRSVS Radio Modernization:EQUIPMENT Group B (Active) | - 1- | 1 | 1 - | 2/4.980 | -1- | 2/4.980 | 1/2.500 | 1 - | 1. | 1. | 1. | 317.480 |
| RRSVS Radio Modernization:EQUIPMENT Group B (Guard) | - 1- | 1 | 1. | $2 / 4.980$ | - 1- | 2/4.980 | 317.500 | 5/12.525 | 1/2.510 | 21/52.287 | - 1 - | $32 / 79.802$ |
| Subtotal: Recurring | 1 | 1 | - / - | - 19.960 | 1 | - 19.960 | - /10.000 | - /12.525 | - 12.510 | - /52.287 | - 1 - | - 187.282 |
| Subtotal: RRSVS Radio Modernization | 1 | 1. | 1. | - 19.960 | 1. | - 19.960 | - /10.000 | - /12.525 | - 12.510 | - /52.287 | - 1- | - 187.282 |
| Subtotal: Procurement, All Modification Items | - 1. | 1. | - 1. | - 19.960 | 1. | - 19.960 | - /10.000 | - /12.525 | - 12.510 | - /52.287 | - 1 - | - 187.282 |
| Support (All Modification Items) |  |  |  |  |  |  |  |  |  |  |  |  |
| Type 1 Training | - 1 - | - $1-$ | 1. | - 10.000 | 1 - | - 10.000 | - 10.000 | - 10.000 | - 10.000 | - 11.000 | - | - 11.000 |
| Change Orders | -1- | - 1 - | - 1 - | - 10.760 | 1 | - 10.760 | - 11.466 | - 11.342 | - 11.162 | - 120.000 | - 1 - | - 124.730 |
| Mod of Spares | - 1- | - 1 - | 1 - | - 10.474 | 1 - | - 10.474 | - 13.986 | - 13.409 | - 12.259 | - 1120.000 | - 1 | - 1130.128 |
| PMA - Other Gov't Costs | - 1 - | - 1 - | - 1 - | - 11.700 | 1 - | - 11.700 | - 12.929 | - 12.713 | - 12.691 | - 120.292 | - 1 - | - 130.325 |
| Subtotal: Support | - 1 | - 1 | 1. | - 12.934 | 1. | - 12.934 | - 18.381 | - 17.464 | - /6.112 | - /161.292 | - 1 - | - /186.183 |
| Installation |  |  |  |  |  |  |  |  |  |  |  |  |
| Modification Item 1 of 1: RRSVS Radio Modernization | - 1 - | 1 - | 1. | 4/0.480 | 1 - | 4/0.480 | $4 / 0.480$ | 5/0.415 | 1/0.100 | 21/2.100 | - 1- | $35 / 3.575$ |
| Subtotal: Installation | - 1 - | - 1 - | $1-$ | 4/0.480 | 1 - | $4 / 0.480$ | 4/0.480 | 5/0.415 | 1/0.100 | 21/2.100 | - 1 - | 35/3.575 |
| Total |  |  |  |  |  |  |  |  |  |  |  |  |
| Total Cost (Procurement + Support + Installation) | - | - | - | 13.374 | 0.000 | 13.374 | 18.861 | 20.404 | 8.722 | 215.679 | - | 277.040 |



## UNCLASSIFIED

| Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2021 Air Force |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Date: February 2020 |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3080F / 03 / 3 |  |  |  |  |  |  |  | P-1 Line Item Number / Title: <br> 833040 / Theater Air Control Sys Improvemen |  |  |  |  |  |  |  | Aggregated Items Title: <br> Theater Air Control System Improvement |  |  |  |  |
|  | $\begin{aligned} & \mathrm{ID} \\ & \mathrm{CD} \end{aligned}$ | MDAP/ <br> MAIS <br> Code | Prior Years |  |  | FY 2019 |  |  | FY 2020 |  |  | FY 2021 Base |  |  | FY 2021 OCO |  |  | FY 2021 Total |  |  |
| Item Number / <br> Title [DODIC] |  |  | 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 (\$ M) |
| European Defense Initiative |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Army Persistent LongRange Surveillance Sensor | B |  | - | - | - | - | - | - - | - | - | - | 1.200 | 2 | 2.400 | - | - | - | 1.200 | 2 | 2.400 |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | - |  | - | - - |  | - | - |  | 2 | 2.400 |  | - | - |  | 2 | 2.400 |
| MPQ-64F1 Sentinel Radar | B |  | - | - | - | - | - | - - | - | - | - | 5.538 | 1 | 5.538 | - | - | - | 5.538 | 1 | 5.538 |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | - |  | - | - - |  | - | - |  | 1 | 5.538 |  | - | - |  | 1 | 5.538 |
| JADOC | B |  | - | - | - | - | - | - - | - | - | - | 6.600 | 1 | 6.600 | - | - | - | 6.600 | 1 | 6.600 |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | - |  | - | - - |  | - | - |  | 1 | 6.600 |  | - | - |  | 1 | 6.600 |
| TORCC | B |  | - | - | - | - | - | - - | - | - | - | 2.000 | 2 | 4.000 | - | - | - | 2.000 | 2 | 4.000 |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | - |  | - | - |  | - | - |  | 2 | 4.000 |  | - | - |  | 2 | 4.000 |
| EO/IR Cameras | B |  | - | - | - | - | - | - - | - | - | - | 0.240 | 3 | 0.720 | - | - | - | 0.240 | 3 | 0.720 |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | - |  | - | - - |  | - | - |  | 3 | 0.720 |  | - | - |  | 3 | 0.720 |
| Subtotal: European Defense Initiative |  |  | - | - | - | - | - | - - | - | - | - | - | - | 19.258 | - | - | - | - | - | 19.258 |
| Total |  |  | - | - | - | - | - | - - | - | - | - | - | - | 19.258 | - | - | - | - | - | 19.258 |

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

## Remarks:

 MPQ-64F1 Sentinel Radar and EO/IR Cameras.

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| Appropriation / Budget Activity / Budget Sub Activity: |
| :--- |
| 3080F: Other Procurement, Air Force / BA 03: Electronics and Telecommunications |
| Equip / BSA 3: Electronics Programs |

## P-1 Line Item Number / Title:

833070 / Weather Observation Forecast

| ID Code (A=Service Ready, B=Not Service Ready): A | Program Elements for Code B Items: N/A | Other Related Program Elements: 0305111F |
| :--- | :--- | :--- | :--- |

Line Item MDAP/MAIS Code: N/A

| Resource Summary | Prior <br> Years | FY 2019 | FY 2020 | $\text { FY } 2021$ Base | $\begin{gathered} \text { FY } 2021 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \text { FY } 2021 \\ \text { Total } \end{gathered}$ | FY 2022 | FY 2023 | FY 2024 | FY 2025 | To Complete | Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Procurement Quantity (Units in Each) | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Cost (\$ in Millions) | 18.342 | 52.113 | 31.447 | 33.021 | - | 33.021 | 32.730 | 35.270 | 33.902 | 34.522 | - | 271.347 |
| Less PY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Net Procurement (P-1) (\$ in Millions) | 18.342 | 52.113 | 31.447 | 33.021 | - | 33.021 | 32.730 | 35.270 | 33.902 | 34.522 | - | 271.347 |
| Plus CY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Total Obligation Authority (\$ in Millions) | 18.342 | 52.113 | 31.447 | 33.021 | - | 33.021 | 32.730 | 35.270 | 33.902 | 34.522 | - | 271.347 |
| (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:

PE 0305111F WEATHER SERVICE
The Weather Observation Forecast (WOF) procurement line acquires fixed-base and tactical meteorological equipment, ground-based space environment sensing systems, and information systems supporting the 2018 National Defense Strategy (NDS) lines of effort. WOF procurement also ensures a dependable environmental observing network which was identified as one of the key layers in Air Force Warfighting Integration Capability's (AFWIC) blueprint for the sensing grid that enables joint all-domain command and control (JADC2). This funding rebuilds readiness for a more lethal and resilient force by procuring and upgrading fixed and tactical equipment for observing and forecasting terrestrial and space environmental impacts in support of global AF, Army, and Special Operations forces and the Intelligence Community. Funding to procure and upgrade information systems to process, store, analyze and disseminate decision-grade weather information enables accurate prediction of environmental impacts to optimize mission planning and execution, targeting, weaponeering, and battle damage assessment and enhances the effectiveness and survivability of AF and Army weapon systems, precision munitions, and AF and government agency space systems. Alliances are strengthened through weather system technological upgrades to ensure critical interoperability with DoD, allies, and interagency partners in support of multi-domain combat operations. Funding for WOF also ensures greater performance and affordability through improvements to architecture and system efficiency as well as retirement of legacy equipment.

WOF activities align under four capability areas: 1) Weather Data Collection, 2) Weather Data Analysis and Dissemination, 3) Weather Forecasting, and 4) Product Tailoring/Warfighter Applications (PTWA). This alignment ensures an integrated and systems-oriented approach to program management decisions. Procurement funding for Terrestrial and Space Environment Observation Forecast is in Program Element (PE) 0305111F, Weather Service. In FY2021, procurement funding and activities aligned under PTWA will begin to transition to Weather Data Collection to better align data collection efforts. PTWA will only include RDT\&E activities once this transition occurs.

1. Weather Data Collection Systems: Provides automated atmospheric and ground-based space environmental sensing capabilities at fixed and deployed locations worldwide. The data gathered by multiple sensor systems is exploited for environmental battlespace awareness, characterization, safety of flight, resource protection, and satellite anomaly assessments and impacts.
A. Observing System 21/AN/FMQ-23 provides automated weather observing systems both home station and deployed to collect weather elements for aviation surface weather reports. Program actions include but are not limited to the acquisition of new weather systems/sensors and the normalization to a standard weather sensing, modular open system architecture (MOSA) baseline comprised of fixed and tactical weather collection components. In FY2021, the FMQ-23 Observing System will begin a transition to a new Program of Record called Fixed-Base Weather Sensors that will combine the FMQ-23 Observing System along with several other fixed-based weather observing systems and sensor collection appliances (sensor collection appliances are currently aligned under PTWA) in order to create a common sensor baseline and consolidate contract maintenance costs.

| Appropriation / Budget Activity / Budget Sub Activity: |
| :--- |
| 3080F: Other Procurement, Air Force / BA 03: Electronics and Telecommunications |
| Equip / BSA 3: Electronics Programs |

## P-1 Line Item Number / Title:

833070 / Weather Observation Forecast

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

Program Elements for Code B Items: N/A
Other Related Program Elements: 0305111F

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








 austere and data sparse areas for the Global Synthetic Weather Radar capability.

 components reaching end of life and a Service Life Extension Program which includes pedestal and shelter refurbishments.


 (AFWWS).


 AFB, NM (SOON).
 Codes (UTCs) for agile combat employment of weather Airmen and weather operations in support of the 2018 NDS.











Appropriation / Budget Activity / Budget Sub Activity:
3080F: Other Procurement, Air Force / BA 03: Electronics and Telecommunications
Equip / BSA 3: Electronics Programs

## P-1 Line Item Number / Title:

833070 / Weather Observation Forecast

ID Code (A=Service Ready, B=Not Service Ready): A
Program Elements for Code B Items: N/A
Other Related Program Elements: 0305111F

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

 Life/End of Service legacy equipment.
 Forecasting includes activities for Numerical Weather Modeling (NWM).


 protection and support additional national defense missions and capabilities.


 programs of record. Procurement funding will transition to the Weather Data Collection Systems capability area to better align with investments with data collection efforts.

 program will include applications, software, C2 systems, and web interfaces that support the joint warfighter and that were previously aligned in other programs of record.

Funding for this exhibit is contained in PE 0305111F
Management services costs include Federally Funded Research and Development Centers and Advisory and Assistance Services.
Funding may be used to address Diminishing Manufacturing Sources (DMS) issues.

Exhibit P-40, Budget Line Item Justification: PB 2021 Air Force
Date: February 2020

## Appropriation / Budget Activity / Budget Sub Activity: <br> 3080F: Other Procurement, Air Force / BA 03: Electronics and Telecommunications

P-1 Line Item Number / Title:
833070 / Weather Observation Forecast Equip / BSA 3: Electronics Programs

| ID Code (A=Service Ready, B=Not Service Ready): A | Program Elements for Code B Items: N/A | Other Related Program Elements: 0305111F |
| :--- | :--- | :--- | :--- |

Line Item MDAP/MAIS Code: N/A

| Exhibits Schedule |  |  |  |  | Prior Years | FY 2019 | FY 2020 | FY 2021 Base | FY 2021 OCO | FY 2021 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 | FMQ-23 |  | A |  | 1 | $2 / 1.422$ | 3/1.168 | 3/1.405 | - 1- | 3/1.405 |
| P-5 | JET |  | B |  | 1 | - 10.556 | - $/ 3.774$ | - / 1.995 | - 1 | - / 1.995 |
| P-40a | Weather Data Collection Systems |  |  |  | 1 | - /16.074 | - / 10.270 | - 111.428 | 1 | - / 11.428 |
| P-5 | WDA Inc-4 |  | B |  | 1 | - 17.812 | - 1 - | - / 15.329 | 1 | - /15.329 |
| P-40a | WDA-CER |  |  |  | 1 - | - / 17.227 | - /14.776 | - 10.000 | 1 | - 10.000 |
| P-40a | WOF |  |  |  | - /18.342 | - 19.022 | - 11.459 | - 12.864 | - 10.000 | - 12.864 |
| P-40 | Total Gross/Weapon System Cost |  |  |  | - /18.342 | - $/ 52.113$ | - $/ 31.447$ | - 133.021 | - 1 - | - / 33.021 |
| Exhibits Schedule |  |  |  |  | FY 2022 | FY 2023 | FY 2024 | FY 2025 | 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 | FMQ-23 |  | A |  | - 1 | 1 | - 1 | - 1 | - 1 | - 1 - |
| P-5 | JET |  | B |  | 1 | 1 | 1 | - 1 - | - 1 - | 1 |
| P-40a | Weather Data Collection Systems |  |  |  | - 1 - | - 1 - | - 1 - | - 1 - | - 1 - | - 1 - |
| P-5 | WDA Inc-4 |  | B |  | 1 - | 1 | 1 | - 1 - | - 1 - | - 1 - |
| P-40a | WDA-CER |  |  |  | 1 | 1 - | 1 - | 1 | 1 | 1 |
| P-40a | WOF |  |  |  | - 11.146 | - 12.264 | - 10.537 | - 10.000 | - 10.000 | - / 35.634 |
| P-40 | Total Gross/Weapon System Cost |  |  |  | - / 32.730 | - 135.270 | - /33.902 | - 134.522 | - 1 | - 1271.347 |

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

## Justification:

This program, Weather Observation Forecast P-40A Category Hardware - Hardware End Item Cost Item Expeditionary Weather, is a new start.
This program, Weather Observation Forecast P-40A Category Hardware - Hardware End Item Cost Item Expeditionary Weather.
This program, Weather Observation Forecast P-40A Category Hardware - Hardware End Item Cost Item Expeditionary Weather.
PE 0305111F WEATHER SERVICE

1. Weather Data Collection Systems:
A. Observing System 21/AN/FMQ-23: FY2021 funding will procure up to three FMQ-23 systems and additional sensor, communication and dissemination equipment for weather sensing at AF and Army installations; expeditionary airfields; and joint/coalition forces locations. These systems and sensors will ensure the continued delivery of observed weather conditions to the warfighter, compliance with cyber security requirements, and interoperability with JET. In FY2021, the FMQ-23 Observing System will begin transition to a new Program of Record called Fixed-Base Weather Sensors that will combine the FMQ-23

## Appropriation / Budget Activity / Budget Sub Activity:

3080F: Other Procurement, Air Force / BA 03: Electronics and Telecommunications Equip / BSA 3: Electronics Programs
ID Code (A=Service Ready, B=Not Service Ready): A
Program Elements for Code B Items: N/A
Other Related Program Elements: 0305111F

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

 baseline and consolidate contract maintenance costs.


 include, but are not limited to program office support, studies, technical analysis, prototyping, etc.
C. PDR: No FY2021 funding requested.



 technical analysis, prototyping, etc.

 obsolescence.

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

 warfighter. Funding enables rapid fielding in response to AF expeditionary operations needs highlighted in the 2018 NDS. Expeditionary Weather is a new start for FY2021.
2. Weather Data Analysis and Dissemination:


 meteorological and space weather data to the warfighter. Procurement funding for FY2020 and beyond previously aligned to WDA Inc-5 and WDA CER has been re-aligned to WDA Inc-4.

## 3. Weather Forecasting:

 to support exploitation of new meteorological satellite data sources for NWM.
4. PTWA:

| Exhibit P-40, Budget Line Item Justification: PB 2021 Air Force |  | Date: February 2020 |
| :--- | :--- | :--- |
| Appropriation / Budget Activity / Budget Sub Activity: | P-1 Line Item Number / Title: |  |
| 3080F: Other Procurement, Air Force / BA 03: Electronics and Telecommunications | 833070 / Weather Observation Forecast |  |
| Equip / BSA 3: Electronics Programs |  |  |

ID Code (A=Service Ready, B=Not Service Ready): A
Program Elements for Code B Items: N/A
Other Related Program Elements: 0305111F

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



 record. Procurement and refresh of SCAs will migrate to the new Fixed-Based Weather Systems program of Record.
 follows:
${ }^{(a)}$ FY 2022 Cost Delta: 31.584 million
${ }^{(b)}$ FY 2023 Cost Delta: 33.006 million
${ }^{\text {(c) }}$ FY 2024 Cost Delta: 33.365 million
${ }^{(d)}$ FY 2025 Cost Delta: 34.522 million
${ }^{(e)}$ FY Total Cost Delta: 235.713 million

Exhibit P-5, Cost Analysis: PB 2021 Air Force

Appropriation / Budget Activity / Budget Sub Activity: 3080F / 03 / 3
ID Code (A=Service Ready, B=Not Service Ready) : A


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| Exhibit P-5, Cost Analysis: PB 2021 Air Force |  |  |  |  |  |  |  |  |  |  |  |  |  | Date: February 2020 |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3080F / 03 / 3 |  |  |  |  |  | P-1 Line Item Number / Title: <br> 833070 / Weather Observation Forecast |  |  |  |  |  |  |  | Item Number / Title [DODIC]: <br> FMQ-23 |  |  |  |  |
| 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 2019 |  |  | FY 2020 |  |  | FY 2021 Base |  |  | FY 2021 OCO |  |  | FY 2021 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 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) | Unit Cost (\$ M) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost $\qquad$ |
| Gross/Weapon System Cost |  |  | . | 0.711 | 2 | 1.422 | 0.389 | 3 | 1.168 | 0.468 | 3 | 1.405 |  |  |  | 0.468 | 3 | 1.405 |

Remarks:
Note: Actual number of systems procured will be dependent on location and site requirements.

Exhibit P-5, Cost Analysis: PB 2021 Air Force

## Appropriation / Budget Activity / Budget Sub Activity:

 3080F / 03 / 3ID Code (A=Service Ready, B=Not Service Ready) : B

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

|  | Prior Years |  |  | FY 2019 |  |  | FY 2020 |  |  | FY 2021 Base |  |  | FY 2021 OCO |  |  | FY 2021 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 (\$ 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 <br> Cost <br>  <br> (\$ M) |
| Hardware - JET Cost |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Recuring Cost |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| JET EQUIPMENT LIFE CYCLE REPLACEMENT | - | - | - | - | - | 0.386 | - | - | 3.606 | - | - | 1.820 | - | - | - | - | - | 1.820 |
| Subtotal: Recurring Cost | - | - | - | - | - | 0.386 | - | - | 3.606 | - | - | 1.820 | - | - | - | - | - | 1.820 |
| Subtotal: Hardware - JET Cost | - | - | - | - | - | 0.386 | - | - | 3.606 | - | - | 1.820 | - | - | - | - | - | 1.820 |
| Support - JET Cost |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| PROGRAM MANAGEMENT ADMINISTRATION CONTRACTOR SERVICES JET | - | - | - | - | - | 0.070 | - | - | 0.074 | - | - | 0.077 | - | - | - | - | - | 0.077 |
| PROGRAM MANAGEMENT ADMINISTRATION ATHER GOVERNMENT SERVICES JET | - | - | - | - | - | 0.100 | - | - | 0.094 | - | - | 0.098 | - | - | - | - | - | 0.098 |
| Subtotal: Support - JET Cost | - | - | - | - | - | 0.170 | - | - | 0.168 | - | - | 0.175 | - | - | - | - | - | 0.175 |
| Gross/Weapon System Cost | . | . | - | - | - | 0.556 | - | - | 3.774 | - | - | 1.995 | - | - | - | - | - | 1.995 |

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| Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2021 Air Force |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Date: February 2020 |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3080F / 03 / 3 |  |  |  |  |  |  |  | P-1 Line Item Number / Title: <br> 833070 / Weather Observation Forecast |  |  |  |  |  |  |  | Aggregated Items Title: <br> Weather Data Collection Systems |  |  |  |  |
|  |  |  | Prior Years |  |  | FY 2019 |  |  | FY 2020 |  |  | FY 2021 Base |  |  | FY 2021 OCO |  |  | FY 2021 Total |  |  |
| Item Number / Title [DODIC] | $\begin{aligned} & \mathrm{ID} \\ & \mathrm{CD} \end{aligned}$ | MDAP/ <br> MAIS <br> Code | 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) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | Total Cost (\$ M) | Unit Cost (\$ M) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost (\$ M) | Unit Cost (\$ M) | Qty (Each) | Total Cost <br> (\$ M) | Unit Cost (\$ M) | $\underset{\text { (Each) }}{\text { Qty }}$ | Total Cost (\$ M) |
| Hardware - Hardware End Item Cost |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| IGS | A |  | - | - | - | 0.185 | 2 | 0.370 | 0.185 | 2 | 0.370 | 0.060 | 4 | 0.240 | - | - | - | 0.060 | 4 | 0.240 |
| Portable Doppler Radar | A |  | - | - | - | 0.682 | 11 | 7.500 | - | - | - | - | - | - | - | - | - | - | - | - |
| MARK IV-B | A |  | - | - | - | 1.179 | 1 | 1.179 | 1.430 | 1 | 1.430 | 3.331 | 1 | 3.331 | - | - | - | 3.331 | 1 | 3.331 |
| NEXRAD | A |  | - | - | - | - | - | 2.151 | - | - | 2.210 | - | - | 1.964 | - | - | - | - | - | 1.964 |
| SEON | A |  | - | - | - | 1.200 | 1 | 1.200 | 3.000 | 1 | 3.000 | 3.030 | 1 | 3.030 | - | - | - | 3.030 | 1 | 3.030 |
| Expeditionary Weather | A |  | - | - | - | - | - | - | - | - | - | - | - | 1.415 | - | - | - | - | - | 1.415 |
| Subtotal: Hardware - Hardware End Item Cost |  |  | - | - | - | - | - | 12.400 | - | - | 7.010 | - | - | 9.980 | - | - | - | - | - | 9.980 |
| Support - Support End Item Cost |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| INSTALLATION IGS | A |  | - | - | - | 1.837 | 2 | 3.674 | 1.630 | 2 | 3.260 | 0.362 | 4 | 1.448 | - | - | - | 0.362 | 4 | 1.448 |
| ASSISTANCE AND ADVISORY SERVICE A\&AS | A |  | - | - | - | - | - | 0.000 | - | - | - | - | - | - | - | - | - | - | - | - |
| Subtotal: Support - Support End Item Cost |  |  | - | - | - | - | - | 3.674 | - | - | 3.260 | - | - | 1.448 | - | - | - | - | - | 1.448 |
| Total |  |  | - | - | - | - | - | 16.074 | - | - | 10.270 | - | - | 11.428 | - | - | - | - | - | 11.428 |

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

## Remarks:

Expeditionary Weather is a New Start in FY2021.

Exhibit P-5, Cost Analysis: PB 2021 Air Force
Appropriation / Budget Activity / Budget Sub Activity: 3080F / 03 / 3
ID Code (A=Service Ready, B=Not Service Ready) : B

P-1 Line Item Number / Title: 833070 / Weather Observation Forecast

Date: February 2020
Item Number / Title [DODIC]:
WDA Inc-4

MDAP/MAIS Code:

| Resource Summary | Prior Years | FY 2019 | FY 2020 | FY 2021 Base | FY 2021 OCO | FY 2021 Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Procurement Quantity (Units in Each) | - | - | - | - | - | - |
| Gross/Weapon System Cost (\$ in Millions) | - | 7.812 | - | 15.329 | - | 15.329 |
| Less PY Advance Procurement (\$ in Millions) | - | - | - | - | - | - |
| Net Procurement (P-1) (\$ in Millions) | - | 7.812 | - | 15.329 | - | 15.329 |
| Plus CY Advance Procurement (\$ in Millions) | - | - | - | - | - | - |
| Total Obligation Authority (\$ in Millions) | - | 7.812 | - | 15.329 | - | 15.329 |
| (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 2019 |  |  | FY 2020 |  |  | FY 2021 Base |  |  | FY 2021 OCO |  |  | FY 2021 Total |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Cost Elements | 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 <br> (\$ 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) |
| Hardware - WDA Inc-4 Cost |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Non Recurring Cost |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Hardware-Weather Service Cost | - | - | - | - | - | 7.608 | - | - | - | - | - | 15.154 | - | - | - | - | - | 15.154 |
| Subtotal: Non Recurring Cost | - | - | - | - | - | 7.608 | - | - | - | - | - | 15.154 | - | - | - | - | - | 15.154 |
| Subtotal: Hardware - WDA Inc-4 Cost | - | - | - | - | - | 7.608 | - | - | - | - | - | 15.154 | - | - | - | - | - | 15.154 |
| Support - WDA Inc-4 Cost |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| PROGRAM MANAGEMENT ADMINISTRATION CONTRACTOR SERVICES | - | - | - | - | - | 0.062 | - | - | - | - | - | 0.020 | - | . | - | - | - | 0.020 |
| PROGRAM MANAGEMENT ADMINISTRATION OTHER GOVERNMENT SERVICES | - | - | - | - | - | 0.142 | - | - | - | - | - | 0.155 | - | - | - | - | - | 0.155 |
| Subtotal: Support - WDA Inc-4 Cost | - | - | - | - | - | 0.204 | - | - | - | - | - | 0.175 | - | - | - | - | - | 0.175 |
| Gross/Weapon System Cost | - | - | - | - | - | 7.812 | - | - | - | - | - | 15.329 | - | - | - | - | - | 15.329 |

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| Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2021 Air Force |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Date: February 2020 <br> Aggregated Items Title: WDA-CER |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3080F / 03 / 3 |  |  |  |  |  |  |  | P-1 Line Item Number / Title: <br> 833070 / Weather Observation Forecast |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  | MDAP/ <br> MAIS <br> Code | Prior Years |  |  | FY 2019 |  |  | FY 2020 |  |  | FY 2021 Base |  |  | FY 2021 OCO |  |  | FY 2021 Total |  |  |
| Item Number / <br> Title [DODIC] | $\begin{aligned} & \mathrm{ID} \\ & \mathrm{CD} \end{aligned}$ |  | Unit Cost (\$ M) | $\underset{(\text { Each })}{\text { Qty }}$ | Total Cost (\$ M) | Unit Cost (\$ M) | Qty (Each) | Total Cost <br> (\$ M) | Unit Cost (\$ M) | Qty <br> (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 <br> (\$ M) | Unit Cost (\$ M) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost (\$ M) |
| Hardware |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Capital Equipment Replacement | A |  | - | - | - | - | - | - 17.227 | - | - | 14.612 | - | - | 0.000 | - | - | - | - | - | 0.000 |
| Subtotal: Hardware |  |  | - | - | - | - | - | 17.227 | - | - | 14.612 | - | - | 0.000 | - | - | - | - | - | 0.000 |
| Support |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Program Management Administration Contractor Services | A |  | - | - | - | - | - | - 0.000 | - | - | 0.019 | - | - | 0.000 | - | - | - | - | - | 0.000 |
| Program Management Administration Other Government Services | A |  | - | - | - | - | - | - 0.000 | - | - | 0.145 | - | - | 0.000 | - | - | - | - | - | 0.000 |
| Subtotal: Support |  |  | - | - | - | - | - | 0.000 | - | - | 0.164 | - | - | 0.000 | - | - | - | - | - | 0.000 |
| Total |  |  | - | - | - | - | - | - 17.227 | - | - | 14.776 | - | - | 0.000 | - | - | - | - | - | 0.000 |

## Remarks:

 and software integration.

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| Exhibit P-40a, Budget Item Justification For Aggregated Modification Items: PB 2021 Air Force |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Date: February 2020 |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3080F / 03 / 3 |  |  |  |  |  |  |  | P-1 Line Item Number / Title: <br> 833070 / Weather Observation Forecast |  |  |  |  |  |  |  | Aggregated Modification Items Title: WOF |  |  |  |  |
|  | $\begin{aligned} & \mathrm{ID} \\ & \mathrm{CD} \end{aligned}$ | MDAP/ <br> MAIS <br> Code | Prior Years |  |  | FY 2019 |  |  | FY 2020 |  |  | FY 2021 Base |  |  | FY 2021 OCO |  |  | FY 2021 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 (\$ 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) |
| WOF2 / Numerical Weather Modeling (NWM) |  |  | - | - | 18.342 | - | - | 9.022 | - | - | 1.459 | - | - | 2.864 | - | - | - | - | - | 2.864 |
| Total |  |  | - | - | 18.342 | - | - | 9.022 | - | - | 1.459 | - | - | 2.864 | - |  | 0.000 |  |  | 2.864 |
|  |  |  | FY 2022 |  |  | FY 2023 |  |  | FY 2024 |  |  | FY 2025 |  |  | To Complete |  |  | Total Cost |  |  |
| Item Number / Title | $\begin{aligned} & \text { ID } \\ & \text { CD } \end{aligned}$ | $\begin{aligned} & \text { MDAP/ } \\ & \text { MAIS } \\ & \text { Code } \end{aligned}$ | Unit Cost (\$ M) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost (\$ M) | Unit Cost (\$ M) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | 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) |
| WOF2 / Numerical Weather Modeling (NWM) |  |  | - | - | 1.146 | - | - | 2.264 | - | - | 0.537 | - | - | - | - | - | - | - | - | 35.634 |
| Total |  |  | - | - | 1.146 | - | - | 2.264 | - | - | 0.537 | - | - | 0.000 | - | - | 0.000 | - | - | 35.634 |

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 <br> WOF2 / Numerical Weather Modeling <br> (NWM) NWM Capability Improvement |

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| Appropriation / Budget Activity / Budget Sub Activity: |
| :--- |
| 3080F: Other Procurement, Air Force / BA 03: Electronics and Telecommunications |
| Equip / BSA 3: Electronics Programs |

## P-1 Line Item Number / Title:

833140 / Strategic Command And Control

| ID Code (A=Service Ready, B=Not Service Ready): A | Program Elements for Code B Items: N/A | Other Related Program Elements: 0301112F, 0304115F |
| :--- | :--- | :--- | :--- |

Line Item MDAP/MAIS Code: N/A

| Resource Summary | Prior <br> Years | FY 2019 | FY 2020 | $\begin{gathered} \text { FY } 2021 \\ \text { Base } \end{gathered}$ | $\begin{gathered} \text { FY } 2021 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \text { FY } 2021 \\ \text { Total } \end{gathered}$ | FY 2022 | FY 2023 | FY 2024 | FY 2025 | To Complete | Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Procurement Quantity (Units in Each) | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Cost (\$ in Millions) | - | 32.836 | 5.090 | 31.353 | - | 31.353 | 42.798 | 15.290 | 11.432 | 11.574 | - | 150.373 |
| Less PY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Net Procurement (P-1) (\$ in Millions) | - | 32.836 | 5.090 | 31.353 | - | 31.353 | 42.798 | 15.290 | 11.432 | 11.574 | - | 150.373 |
| Plus CY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Total Obligation Authority (\$ in Millions) | - | 32.836 | 5.090 | 31.353 | - | 31.353 | 42.798 | 15.290 | 11.432 | 11.574 | - | 150.373 |
| (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:

PE 0101127F B-2 Squadrons - P-40A
B-2 SUPPORT: The B-2 weapon system relies heavily on C2 equipment to meet its operational capability. Funding is used to replace obsolete computer equipment, backbone infrastructure hardware and software, and long haul communications equipment at the Weapon System Support Center (WSSC) Ground Test Facility (GTF), and contractor laboratories. This includes COTS items such as computers, displays, printers, disk and tape drives, software (e.g. computer-aided design (CAD) and analysis software) as well as engineering and logistical support. Funds also procure specialized computers that provide on-line access to B-2 aircraft data and low observable analysis capabilities. Unique B-2 security and communication infrastructure needs are also addressed.

The B-2 Weapon System Support Center (WSSC) Ground Test Facility (GTF), located at Oklahoma Air Logistics Center, Tinker AFB, OK, supports two critical functions: aircraft software development and maintenance/support, plus systems engineering support for the fielded weapon system. Software maintenance fixes to aircraft systems include flight controls, flight management, navigation systems, weapons/ armament and the defensive management system. These software fixes are accomplished and tested with the use of the WSSC software development system and integration/test laboratory complex by analyzing and designing fixes to the existing aircraft software. The WSSC GTF also provides engineering support with specialized computer systems that provide online access to B-2 aircraft data. This data consists of items such as engineering and organic low observable analysis, manufacturing, aircraft design data used to help solve technical issues on the B-2. Locations where this data is used include Tinker AFB, Whiteman AFB, Wright-Patterson AFB, Northrop-Grumman in Palmdale, CA and forward operating locations (FOL).

PE 0101316F Worldwide Joint Strategic Communications - P-40A
Emergency Action Messages (EAMs) are highly structured, authenticated messages primarily used in the command and control of nuclear forces. They are disseminated over numerous survivable and nonsurvivable communication systems including terrestrial and space systems. Programmed funds procure system components, spares, software, and necessary support services for systems such as the Strategic Automated Command and Control System (SACCS), Phoenix Air-to-Ground Communication Network (PAGCN), Defense Injection Reception Emergency Action Message (EAM) C2 Terminals (DIRECT), Aircrew Alerting Communications Electromagnetic Pulse (AACE), the Strategic Emergency Action Transmission System (SEATS), and the Defense Red Switch Network (DRSN).

SACCS is a secure Nuclear Command, Control, and Communications (NC3) system that directly supports National Command Authority (NCA) communications in the command and control of strategic and nonstrategic forces. SACCS enables the NCA to disseminate Higher Authority Command Messages, Force Direction Messages, EAMs, and automated ICBM re-targeting data to the USAF's two legs (ICBM and bomber fleets) of the nuclear triad; the reconnaissance, tanker, USAFE munitions, and Special Operations communities; and to other Active Duty, Guard, and Reserve DoD users worldwide.

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Page 1 of 12
P-1 Line \#21
Volume 1-155
Appropriation / Budget Activity / Budget Sub Activity:
3080F: Other Procurement, Air Force / BA 03: Electronics and Telecommunications
Equip / BSA 3: Electronics Programs

## P-1 Line Item Number / Title:

833140 / Strategic Command And Control

DIRECT includes the hardware and software to enable the NCA to transmit nuclear and non-nuclear EAMs and other time-critical messages to strategic and non-strategic forces. The equipment requested is representative of those items capable of providing the required operational capability. The specific items procured may vary depending upon available technology at the time of procurement. Funding may be used to address Diminishing Manufacturing Sources (DMS) issues.

PAGCN is a critical component of the Senior Leadership Command, Control and Communications System (SLC3S) that extends terrestrial Defense Information Systems Network (DISN) connectivity via an air-toground line-of-sight (LoS) communications path to select Airborne and Ground Mobile platforms, and provides and air-to-air LoS communications path between PAGCN-equipped platforms. The FY2018 NDAA directed the transfer of the PAGCN program from the Defense Information Systems Agency (DISA) to the Air Force Program Executive Office for Nuclear Command, Control and Communications (AFPEO NC3). Additional information can be provided at higher classification levels.

Development funding for this exhibit contained in PE 0101316F.
PE 0208059F Service Support to Other Core Missions - CYBERCOM Activities - P-40A
US Cyber Command (USCYBERCOM) Cyberspace Situational Awareness (SA) capabilities provides Combatant Commands the ability to detect anomalies within friendly networks, and to link cyber key terrain to cyber and kinetic mission needs and timelines. FY18 is the last year of funding for Cyber SA.

PE 0301112F Nuclear Planning and Execution System (NPES) - P-40A
NUCLEAR PLANNING AND EXECUTION SYSTEM (NPES): NPES is a National C2 automated information system (AIS) that supports all phases of nuclear conflict. The requirement includes all facets of Cyber investments as it relates NPES Legacy enhancements, test, communication systems and operational server integration with fixed command centers, distributed sites, and mobile platforms. NPES Legacy is a joint program, with the Air Force assigned lead service responsibilities. All NPES funding covers current and future cyber related investments necessary for a successful operational application/system delivery, for fixed command centers, distributive sites and mobile platforms. Funding for this effort is in program element 0301112F.

Funding supports cyber investments for all NPES environment suites, as well as the 4th Generation Servers supporting the mobile platform environments. NPES cyber investments include procurement supporting communications equipment, operational sites, and PMA contractor support for equipment purchases, sustainment activities, and security certifications. These cyber investments will be accomplished by command supported contracts as well as Defense Microelectronics Activity (DMEA) supporting airborne enhancements. Funding for this effort is in program element 0301112F.

PE 0303255F Command, Control, Communication, and Computers (C4) - STRATCOM - P-40A
SERVICE SUPPORT TO USSTRATCOM - C4:
a. USSTRATCOM C2 SYSTEMS LIFECYCLE HARDWARE MANAGEMENT: This effort provides the C2 infrastructure and hardware to acquire, process, and deliver information, as needed, to enhance decision making for USSTRATCOM. This effort employs a set of underlying information services, technologies, and tools that enable the Commander of USSTRATCOM to achieve broad operational warfighting capabilities. The effort adds capability as it builds to a final architecture. The architecture is a collection of distributed databases and applications, integrated through a grid of supporting services. This effort was previously referred to as "C2 Modernization and is NOT a new start.

FY19 is last year of funding in this PE/WSC. Funding FY20 and beyond will be captured under the USSTRATCOM IT Enterprise construct, BPAC 835160F, PE 0101301F
b. ANALYSIS AND TARGETING - JOINT WARFARE ANALYSIS CENTER (JWAC): effort provides the hardware that enables the JWAC to develop and recommend strategic technical solutions. JWAC coordinates directly with the staffs of all Department of Defense (DoD) elements, Combatant Commands, military services, and other government departments and agencies to respond to crises.

| Appropriation / Budget Activity / Budget Sub Activity: |
| :--- |
| 3080F: Other Procurement, Air Force / BA 03: Electronics and Telecommunications |
| Equip / BSA 3: Electronics Programs |

## P-1 Line Item Number / Title:

833140 / Strategic Command And Control

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

FY19 is last year of funding in this PE/WSC. Funding FY20 and beyond will be captured under the USSTRATCOM IT Enterprise construct, BPAC 835160F, PE 0101301F

 attack warning information. Processing and Display Subsystem - Migration (PDS-M) will continue to provide the commander with missile attack warning information

FY19 is last year of funding in this PE/WSC. Funding FY20 and beyond will be captured under the USSTRATCOM IT Enterprise construct, BPAC 835160F, PE 0101301F
 Branch (SAF/AQID) at (202) 404-3405.
e. USSTRATCOM REPLACEMENT FACILITY FIT-OUT: No funding in FY20 and out

PE 0101301F - USSTRATCOM Information Technology Enterprise


 0303255 F and treated separately. This is not a new start.



 mission operations centers, storage and maintenance areas, labs/workrooms, backup generators, Uninterruptible Power Source, and Technical Control Facility.

PE 0304115F Multi Domain Command and Control (MDC2), also known as Joint All Domain Command and Control (JADC2) - P-40A

 right sensor to the right node to the right shooter regardless of domain to achieve rapid, artificial intelligence (AI) enabled decision making and effects.

 requirements. This is not a new start.

Exhibit P-40, Budget Line Item Justification: PB 2021 Air Force
Date: February 2020

## Appropriation / Budget Activity / Budget Sub Activity: <br> 3080F: Other Procurement, Air Force / BA 03: Electronics and Telecommunications

P-1 Line Item Number / Title:
833140 / Strategic Command And Control Equip / BSA 3: Electronics Programs

| ID Code (A=Service Ready, B=Not Service Ready): A | Program Elements for Code B Items: N/A | Other Related Program Elements: 0301112F, 0304115F |
| :---: | :---: | :---: |

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

| Exhibits Schedule |  |  |  |  | Prior Years | FY 2019 | FY 2020 | FY 2021 Base | FY 2021 OCO | FY 2021 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 | B-2 Squadrons |  |  |  | 1 - | - 10.516 | - 10.524 | - 10.532 | -1 | - 10.532 |
| P-40a | Worldwide Joint Strategic Communications |  |  |  | 1 | - 12.979 | - 10.300 | - 124.520 | 1 | 124.520 |
| P-40a | Nuclear Planning and Execution System (NPES) |  |  |  | - 1 - | - 12.278 | - 12.266 | - 11.356 | - 1 - | - 11.356 |
| P-40a | Command, Control, Communication, and Computers (C4) STRATCOM |  |  |  | - 1 - | - / 27.063 | - 10.000 | - 10.000 | - 1 - | - 10.000 |
| P-40a | Multi Domain Command and Control (MDC2) |  |  |  | - 1 - | - 10.000 | - 12.000 | - 14.945 | - 1 - | - 14.945 |
| P-40 | Total Gross/Weapon System Cost |  |  |  | 1 | - 132.836 | - 15.090 | - 131.353 | 1 | - 131.353 |

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

## Justification:

PE 0101127F B-2 Squadrons - P-40A

 drives, software and installation and support services.

PE 0101316F Worldwide Joint Strategic Communications - P-40A
a. Defense Injection/Reception Emergency Action Message Command and Control Terminal (DIRECT):

- FY19 PB funds (\$2.979M) will be used for the installation of (1) DIRECT terminal in support of EUCOM
- FY20 PB funds (\$0.300M) will be used for DIRECT/NC3 architecture upgrades \& support
- FY21 PB funds (\$1.979M) will be used for DIRECT/NC3 architecture upgrades \& support
b. Phoenix Air-to-Ground Communication Network (PAGCN):
 information can be provided at higher classification levels.

PE 0208059F Service Support to Other Core Missions - CYBERCOM Activities - P-40A
FY18 supports fielding Cyberspace Situational Awareness EOA Phase I to three combatant commands (USSOUTHCOM, USSOCOM, PACOM).
PE 0303255F Command, Control, Communication, and Computers (C4) - STRATCOM - P-40A
a. USSTRATCOM C2 SYSTEMS LIFECYCLE HARDWARE MANAGEMENT: FY 20 begins transition to the USSTRATCOM IT Enterprise construct
b. ANALYSIS AND TARGETING - JOINT WARFARE ANALYSIS CENTER (JWAC): FY 20 begins transition to the USSTRATCOM IT Enterprise construct

## Appropriation / Budget Activity / Budget Sub Activity: <br> 3080F: Other Procurement, Air Force / BA 03: Electronics and Telecommunications Equip / BSA 3: Electronics 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:
833140 / Strategic Command And Control

Other Related Program Elements: 0301112F, 0304115F

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

c. FORCE SURVIVABILITY, ANALYSIS, AND MANAGEMENT (FSAM). FY 20 begins transition to the USSTRATCOM IT Enterprise construct
 Branch (SAF/AQID) at (202) 404-3405.
e. USSTRATCOM REPLACEMENT FACILITY FIT-OUT: USSTRATCOM Replacement Facility: NO funding in FY20 and out.
f. PE 0101301F - USSTRATCOM Information Technology Enterprise...consists of 6 major efforts:
 management includes access control and lifecycle management.
 Enterprise IT architecture and component subscriber enterprises

4. Client Infrastructure Hardware Updates - Lifecycle technical refresh will begin on end user computing input/output devices and peripherals.
 signage, VTC and audio conferencing capabilities
6. COOP Capabilities - In FY20 USSTRATCOM will build a continuity of operations capability to host mission critical systems and applications at an off-site location.

Specific items procured during execution may change based on commercial availability and critical equipment needed to support current mission requirements.
PE 0304115F Multi Domain Command and Control (MDC2) - P-40A



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| Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2021 Air Force |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Date: February 2020 <br> Aggregated Items Title: B-2 Squadrons |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3080F / 03 / 3 |  |  |  |  |  |  |  | P-1 Line Item Number / Title: <br> 833140 / Strategic Command And Control |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  | ior Yea |  | FY 2019 |  |  | FY 2020 |  |  | FY 2021 Base |  |  | FY 2021 OCO |  |  | FY 2021 Total |  |  |
| Item Number / Title [DODIC] | $\begin{array}{\|l\|} \hline \text { ID } \\ \text { CD } \end{array}$ | $\begin{array}{\|c} \text { MDAPII } \\ \text { MAIS } \\ \text { code } \\ \hline \end{array}$ | 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 Cost <br> (\$ M) | Unit Cost <br> (\$ M) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | $\begin{aligned} & \text { Total } \\ & \text { Cost } \\ & (\$ M) \\ & \hline \end{aligned}$ | Unit Cost (\$M) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost <br> (\$ M) | Unit Cost (\$ M) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | $\begin{aligned} & \text { Total } \\ & \text { Cost } \end{aligned}$ $(\$ M)$ |
| Uncategorized |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| B-2 Weapon System Support Center (WSSC) Hardware | A |  | - | - | - | - | - | 0.516 | 0.524 | 1 | 0.524 | 0.532 | 1 | 0.532 | - | - | - | 0.532 | 1 | 0.532 |
| Subtotal: Uncategorized |  |  | - | - | - | - | - | 0.516 | - | - | 0.524 | - | - | 0.532 | - | - | - | - | - | 0.532 |
| Total |  |  | - | - | - | - | - | 0.516 | - | - | 0.524 | - | - | 0.532 | - | - | - | - | - | 0.532 |

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| Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2021 Air Force |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Date: February 2020 <br> Aggregated Items Title: <br> Worldwide Joint Strategic Communications |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3080F / 03 / 3 |  |  |  |  |  |  |  | P-1 Line Item Number / Title: <br> 833140 / Strategic Command And Control |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  | Prior Years |  |  | FY 2019 |  |  | FY 2020 |  |  | FY 2021 Base |  |  | FY 2021 OCO |  |  | FY 2021 Total |  |  |
| Item Number / <br> Title [DODIC] | $\begin{aligned} & \text { ID } \\ & \text { CD } \end{aligned}$ | MDAP/ MAIS Code | Unit Cost $(\$ M)$ | Qty (Each) | Total Cost (\$ M) | Unit Cost (\$ M) | Qty <br> (Each) | 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) |
| Uncategorized |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Defense Injection/ Reception Emergency Action Message Command and Control Terminal (DIRECT) System | A |  | - | - | - | - |  | 2.979 | - | - | 0.300 | - | - | 1.946 | - | - | - | - | - | 1.946 |
| Strategic Automated Command Control Systems (SACCS) | A |  | - | - | 0.000 | - |  | - - | - | - | - | - | - | - | - | - | - | - | - | - |
| Phoenix Air-to-Ground Communication <br> Network (PAGCN) | A |  | - | - | - | - | - | - - | - | - | - | - | - | 22.574 | - | - | - | - | - | 22.574 |
| Subtotal: Uncategorized |  |  | - |  | - | - |  | 2.979 | - |  | 0.300 | - | - | 24.520 | - | - | - | - | - | 24.520 |
| Total |  |  | - |  | - | - |  | 2.979 | - |  | 0.300 | - | - | 24.520 | - | - | - | - |  | 24.520 |
| Note: Subtotals or Totals in this Exhibit P-40a may not be exact or sum exactly, due to rounding. <br> Remarks: <br> DIRECT: <br> - FY19 PB funds (\$2.979M) will be used for the installation of (1) DIRECT terminal in support of EUCOM <br> - FY20 PB funds ( $\$ 0.300 \mathrm{M}$ ) will be used for DIRECT/NC3 architecture upgrades \& support <br> - FY21 PB funds (\$1.979M) will be used for DIRECT/NC3 architecture upgrades \& support <br> PAGCN: <br>  higher classification levels. |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

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| Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2021 Air Force |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Date: February 2020 |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3080F / 03 / 3 |  |  |  |  |  |  |  | P-1 Line Item Number / Title: <br> 833140 / Strategic Command And Control |  |  |  |  |  |  |  | Aggregated Items Title: <br> Command, Control, Communication, and Computers (C4) - STRATCOM |  |  |  |  |
|  | $\begin{aligned} & \mathrm{ID} \\ & \mathrm{CD} \end{aligned}$ | MDAP/ MAIS Code | Prior Years |  |  | FY 2019 |  |  | FY 2020 |  |  | FY 2021 Base |  |  | FY 2021 OCO |  |  | FY 2021 Total |  |  |
| Item Number / Title [DODIC] |  |  | Unit Cost (\$ M) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost (\$ M) | Unit Cost (\$ M) | Qty (Each) | 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) | Qty (Each) | Total Cost (\$M) |
| 0032 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| NPES - Ruggedized Equipment, E-4B, E-6B | A |  | - | - | 0.000 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| NPES - Operational Site Life Cycle Replacement | A |  | - | - | 0.000 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| C2 LAN Infrastructure (C2 Modernization) | A |  | - | - | - | 3.219 | 1 | 3.219 | - | - | - | - | - | - | - | - | - | - | - | - |
| NPES - Comm System (SMART NEXT Turn-Key System) | A |  | - | - | 0.000 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Mass Storage Devices [Secret, TS], (C2 Modernization) | A |  | - | - | 0.000 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| SUN/Windows servers, storage, clients etc (C2 Modernization) | A |  | - | - | 0.000 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Global Operations Center (GOC) Hardware, (C2 Modernization) | A |  | - | - | - | 3.300 | 1 | 3.300 | - | - | - | - | - | - | - | - | - | - | - | - |
| Miscellaneous Infrastructure and LAN Hardware, [Classified], (C2 Modernization) | A |  | - | - | 0.000 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Analysis and Targeting Systems, (C2 Modernization) | A |  | - | - | - | 0.081 | 1 | 0.081 | - | - | - | - | - | - | - | - | - | - | - | - |
| FSAM - Modernization Procurement | A |  | - | - | - | 2.047 | 1 | 2.047 | - | - | - | - | - | - | - | - | - | - | - | - |
| Global Distributed Command and Control (GDC2) | A |  | - | - | - | 1.799 | 1 | 1.799 | - | - | - | - | - | - | - | - | - | - | - | - |
| Global Distributed Command and Control (GDC2 Classified) | A |  | - | - | - | 0.508 | 1 | 0.508 | - | - | - | - | - | - | - | - | - | - | - | - |
| New Bldg Fit Out Fiber Ring | A |  | - | - | 0.000 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| New Bldg Fit Out - Transition Infrastructure | A |  | - | - | 0.000 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |


| Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2021 Air Force |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Date: February 2020 <br> Aggregated Items Title: <br> Command, Control, Communication, and Computers (C4) - STRATCOM |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3080F / 03 / 3 |  |  |  |  |  |  |  | P-1 Line Item Number / Title: <br> 833140 / Strategic Command And Control |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  | Prior Years |  |  | FY 2019 |  |  | FY 2020 |  |  | FY 2021 Base |  |  | FY 2021 OCO |  |  | FY 2021 Total |  |  |
| Item Number / Title [DODIC] | $\begin{aligned} & \mathrm{ID} \\ & \mathrm{CD} \end{aligned}$ | $\begin{array}{\|c\|c\|} \hline \text { MDAPI } \\ \text { MAIS } \\ \text { Code } \end{array}$ | 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 $\qquad$ | 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) |
| New Bldg Fit Out Premise Wiring | A |  | - |  | 0.000 | - | . | - | - |  | - | - | . | - | - | - |  | - |  |  |
| New Bldg Fit Out Electronic Security Systems | A |  | - | - | 0.000 | - | - | - | - | - | - | - | - | - | - | - |  | - |  |  |
| New Bldg Fit Out - Network / Communications systems | A |  | - | - | 0.000 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| New Bldg Fit Out Server / Client / Data systems hardware | A |  | - | - | - | 4.850 | 1 | $1 \quad 4.850$ | - | - | - | - | - | - | - | - | - | - |  |  |
| New Bldg Fit Out Audio Visual / VTC systems hardware | A |  | - | - | - | 9.103 | 1 | $1 \quad 9.103$ | - | - | - | - | - | - | - | - | - | - |  | - |
| New BIdg Fit Out - Mission Systems hardware | A |  | - | - | - | 2.156 | 1 | $1 \quad 2.156$ | - | - | - | - | - | - | - | - | - | - |  |  |
| New Bldg Fit Out Technical Control Facility hardware / Relocation | A |  | - | - | 0.000 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| USSTRATCOM IT Enterprise | A |  | - | - | - | - | - | - |  |  | 0.000 | - | - | 0.000 | - | - | - | - | - | 0.000 |
| Subtotal: 0032 |  |  | - | - | - | - | - | 27.063 | - |  | 0.000 | - | - | 0.000 | - | - |  | - | - | 0.000 |
| Total |  |  | - | - | - | - | - | 27.063 | - |  | 0.000 | - | - | 0.000 | - | - |  | - | - | 0.000 |
| Note: Subtotals or Totals in this Exhibit P-40a may not be exact or sum exactly, due to rounding. |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Remarks: <br> In FY20 the C2 Facility Fit-Out project has no funding. Last year of Procurement funding was FY19. |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Beginning in FY20 the USSTRATCOM IT Enterprise Construct is adapted - PE 11301F, BPAC 835160 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| The C2 Mod, FSAM, and JWAC programs will now be reported under the C2 IT Enterprise program |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  control and lifecycle management. |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  enterprises |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

## UNCLASSIFIED

| Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2021 Air Force | Date: February 2020 |  |
| :--- | :--- | :--- |
| Appropriation / Budget Activity / Budget Sub Activity: | P-1 Line Item Number / Title: <br> 3080F / 03 / 3 | 833140 / Strategic Command And Control |

f. COOP Capabilities - In FY20 USSTRATCOM will build a continuity of operations capability to host mission critical systems and applications at an off-site location

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Exhibit P-40, Budget Line Item Justification: PB 2021 Air Force
Date: February 2020
Appropriation / Budget Activity / Budget Sub Activity:
3080F: Other Procurement, Air Force / BA 03: Electronics and Telecommunications
Equip / BSA 3: Electronics Programs

## P-1 Line Item Number / Title: <br> 833160 / Cheyenne Mountain Complex

 Equip / BSA 3: Electronics ProgramsProgram Elements for Code B Items: 0305903F, 1203906F $\quad$ Other Related Program Elements: N/A
Line Item MDAP/MAIS Code: N/A

| Resource Summary | Prior <br> Years | FY 2019 | FY 2020 | $\text { FY } 2021$ Base | $\begin{gathered} \text { FY } 2021 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \text { FY } 2021 \\ \text { Total } \end{gathered}$ | FY 2022 | FY 2023 | FY 2024 | FY 2025 | To Complete | Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Procurement Quantity (Units in Each) | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Cost (\$ in Millions) | 9.864 | 10.503 | 10.145 | 10.314 | - | 10.314 | 10.500 | 10.685 | 10.877 | 11.077 | - | 83.965 |
| Less PY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Net Procurement (P-1) (\$ in Millions) | 9.864 | 10.503 | 10.145 | 10.314 | - | 10.314 | 10.500 | 10.685 | 10.877 | 11.077 | - | 83.965 |
| Plus CY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Total Obligation Authority (\$ in Millions) | 9.864 | 10.503 | 10.145 | 10.314 | - | 10.314 | 10.500 | 10.685 | 10.877 | 11.077 | - | 83.965 |
| (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:

 Air Defense (NORAD) missions.

PE 0305903F - COCOM MOBILE CONSOLIDATED COMMAND CENTERS (MCCC)

 Homeland Support/Homeland Defense (HLS/HLD) and U.S. Northern Command (USNORTHCOM).

PE 1203906F - NCMC - ITWIAA SYSTEM





 operating locations.

Exhibit P-40, Budget Line Item Justification: PB 2021 Air Force
Date: February 2020

## Appropriation / Budget Activity / Budget Sub Activity:

3080F: Other Procurement, Air Force / BA 03: Electronics and Telecommunications Equip / BSA 3: Electronics Programs
ID Code (A=Service Ready, B=Not Service Ready): B
Program Elements for Code B Items: 0305903F, 1203906F

## P-1 Line Item Number / Title:

833160 / Cheyenne Mountain Complex

Line Item MDAP/MAIS Code: N/A

| Exhibits Schedule |  |  |  |  | Prior Years | FY 2019 | FY 2020 | FY 2021 Base | FY 2021 OCO | FY 2021 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 | COCOM Mobile Command and Control Centers (MCCCs) |  |  |  | 17.845 | / 10.003 | - 18.066 | - 10.200 | - 10.000 | - 10.200 |
| P-3a | 006 / MCCC Upgrade Block 04 (Reliability \& Maintainability) |  | B |  | - 1 - | - 10.000 | - 10.000 | - 18.001 | - 10.000 | - 18.001 |
| P-40a | NCMC - TW/AA System |  |  |  | - 12.019 | - 10.500 | - 12.079 | - 12.113 | - 10.000 | - 12.113 |
| P-40 | Total Gross/Weapon System Cost |  |  |  | - 19.864 | - /10.503 | - /10.145 | - / 10.314 | - 1 - | - /10.314 |
| Exhibits Schedule |  |  |  |  | FY 2022 | FY 2023 | FY 2024 | FY 2025 | 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 | COCOM Mobile Command and Control Centers (MCCCs) |  |  |  | - 18.150 | - 18.497 | - 18.649 | - 18.808 | - 10.000 | - $/ 60.218$ |
| P-3a | 006 / MCCC Upgrade Block 04 (Reliability \& Maintainability) |  | B |  | - 10.200 | - 10.000 | - 10.000 | - 10.000 | - 1 - | - 18.201 |
| P-40a | NCMC - TW/AA System |  |  |  | - 12.152 | - 12.190 | - 12.230 | - 12.271 | - 10.000 | - /15.554 |
| P-40 | Total Gross/Weapon System Cost |  |  |  | - /10.500 | - / 10.685 | - /10.877 | - / 11.077 | 1 | - 183.965 |

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

## Justification:

This program, PE 0305903F, P-3A Mod 006, MCCC Upgrade Block 04, is a new start.
PE 0305903F - COCOM MOBILE CONSOLIDATED COMMAND CENTERS (MCCC)
The CCDR's MCCC provides a resilient command, control, communications, computers, intelligence (C4I), reliability and maintainability capability while accomplishing directed COCOM missions. The MCCC provides C4I for Homeland Security Support/Homeland Defense (HLS/HLD) and USNORTHCOM missions. MCCC modification efforts funded in this line include upgrading MCCC shelters and incorporating additional C4I system capabilities via mobile Information Technology and Communication Upgrade projects; ensuring the platform's ability to rapidly deploy, re-constitute and operate. FY21 funding will execute MCCC Block 04 modifications which include but are not limited to: 1) Communication system upgrades; 2) Mission and support asset upgrades; 3) Cyber security modernization, 4) Network upgrades; and 5) Environmental and Filtration system upgrades along with and including initial spares and test facility updates required by the fielding of these modification. Due to the limited spares demand rate, and indefinite system lifespan, Life of Type buys may be required to support weapons system modifications across the active MCCC Block Programs. FY21 funding will also provide Program Management Administration (PMA) support for the MCCC Block 03 Program initiated in FY20. PMA includes acquisition support/strategy, engineering and technical expertise associated with procurement, support services, test, travel and other program related costs associated with install of procurement equipment. Funding for this effort is in program element 0305903F and is funded IAW full funding policy.

## PE 1203906F - NCMC - ITWIAA SYSTEM

Funding procures replacement for reliability and maintainability of the information systems hardware and associated systems software for NCMC/ITW/AA system. This system is a C2 enterprise of various critical information technology systems comprised of communications processors, network devices, C2 services, workstations, databases, and intelligence sources that are integrated to provide the means to assess an enemy attack. In FY21, this line will fund NCMC-ITW/AA Block 04 modifications, which include but are not limited to the two major components: 1) Mission systems (air, missile, and space) upgrades include all subsystems within the sensor-to-operator messaging string message-processing, database, communications processing systems, C2 services, mission operations management systems, and workstations. 2 ).

| Exhibit P-40, Budget Line Item Justification: PB 2021 Air Force | Date: February 2020 |
| :--- | :--- |

## Appropriation / Budget Activity / Budget Sub Activity: <br> 3080F: Other Procurement, Air Force / BA 03: Electronics and Telecommunications

P-1 Line Item Number / Title:
833160 / Cheyenne Mountain Complex
Equip / BSA 3: Electronics Programs
ID Code (A=Service Ready, B=Not Service Ready): B
Program Elements for Code B Items: 0305903F, 1203906F
Other Related Program Elements: N/A

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





 related costs associated with install of procurement equipment. Funding for this effort is in program element 1203906F and is funded IAW full funding policy.

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Exhibit P-40a, Budget Item Justification For Aggregated Modification Items: PB 2021 Air Force

| Appropriation / Budget Activity / Budget Sub Activity: <br> $3080 \mathrm{~F} / 03$ / 3 | P-1 Line Item Number / Title: <br> $833160 ~ / ~ C h e y e n n e ~ M o u n t a i n ~ C o m p l e x ~$ |
| :--- | :--- |


|  |  |  |  | ior Years |  |  | Y 2019 |  |  | Y 2020 |  |  | 2021 Ba |  |  | 2021 O |  |  | 2021 To |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 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 <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 (\$ M) | Unit Cost (\$ M) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost <br> (\$ M) |
| 002 / Mobile Consolidated Command Center Modification |  |  | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 003 / Mobile Consolidated Command Center Upgrade Block 01 |  |  | - | - | 7.845 | - | - | 0.440 | - | - | - | - | - | - | - | - | - | - | - | - |
| 004 / Mobile Consolidated Command Center Upgrade Block 02 |  |  | - | - | - | - | - | 9.563 | - | - | 0.200 | - | - | - | - | - | - | - | - | - |
| 005 / Mobile Consolidated Command Center Upgrade Block 03 |  |  | - | - | - | - | - | - | - | - | 7.866 | - | - | 0.200 | - | - | - | - | - | 0.200 |
| Total |  |  | - | - | 7.845 | - | - | 10.003 | - | - | 8.066 | - | - | 0.200 | - | - | 0.000 | - | - | 0.200 |
|  |  |  |  | FY 2022 |  |  | Y 2023 |  |  | Y 2024 |  |  | Y 2025 |  |  | Compl |  |  | tal Cos |  |
| 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 (\$ 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) |
| 002 / Mobile Consolidated Command Center Modification |  |  | - | - | 8.150 | - | - | 8.497 | - | - | 8.649 | - | - | 8.808 | - | - | - | - | - | 34.104 |
| 003 / Mobile Consolidated Command Center Upgrade Block 01 |  |  | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 8.285 |
| 004 / Mobile Consolidated Command Center Upgrade Block 02 |  |  | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 9.763 |
| 005 / Mobile Consolidated Command Center Upgrade Block 03 |  |  | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 8.066 |
| Total |  |  | - | - | 8.150 | - | - | 8.497 | - | - | 8.649 | - | - | 8.808 | - | - | 0.000 | - | - | 60.218 |

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 |
| :--- | :--- | :--- |
| 002 / Mobile Consolidated Command <br> Center Modification | CheyenneMountainComplex | Reliability \& Maintainability |
| $003 /$ Mobile Consolidated Command <br> Center Upgrade Block 01 | CheyenneMountainComplex | Reliability \& Maintainability |
| 004 / Mobile Consolidated Command <br> Center Upgrade Block 02 | CheyenneMounatinComplex | Reliability \& Maintainability |

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| Exhibit P-40a, Budget Item Justification For Aggregated Modification Items: PB 2021 Air Force |  |  | Date: February 2020 |
| :---: | :---: | :---: | :---: |
| Appropriation / Budge 3080F / 03 / 3 | Activity / Budget Sub Activity: | P-1 Line Item Number / Title: 833160 / Cheyenne Mountain Complex | Aggregated Modification Items Title: COCOM Mobile Command and Control Centers (MCCCs) |
| Item Number / Title | Models of Systems Affected | Modification Type |  |
| 005 / Mobile Consolidated Command Center Upgrade Block 03 | CheyenneMOuntainComplex | Reliability \& Maintainability |  |


| Exhibit P-3a, Individual Modification: PB 2021 Air Force |  |  |  |  |  |  |  |  | Date: February 2020 |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: <br> 3080F / 03 / 3 |  |  |  | P-1 Line Item Number / Title: <br> 833160 / Cheyenne Mountain Complex |  |  |  |  | Modification Number / Title: 006 / MCCC Upgrade Block 04 |  |  |  |
| ID Code (A=Service Ready, B=Not Service Ready) : B |  |  |  |  |  | MDAP/MAIS Code: |  |  |  |  |  |  |
| Resource Summary | Prior Years | FY 2019 | FY 2020 | $\begin{gathered} \text { FY } 2021 \\ \text { Base } \end{gathered}$ | $\begin{gathered} \hline \text { FY } 2021 \\ \text { OCO } \end{gathered}$ | $\begin{aligned} & \text { FY } 2021 \\ & \text { Total } \end{aligned}$ | FY 2022 | FY 2023 | FY 2024 | FY 2025 | To Complete | Total |
| Procurement Quantity (Units in Each) | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Cost (\$ in Millions) | - | 0.000 | 0.000 | 8.001 | 0.000 | 8.001 | 0.200 | 0.000 | 0.000 | 0.000 | - | 8.201 |
| Less PY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Net Procurement (P-1) (\$ in Millions) | - | 0.000 | 0.000 | 8.001 | 0.000 | 8.001 | 0.200 | 0.000 | 0.000 | 0.000 | - | 8.201 |
| Plus CY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Total Obligation Authority (\$ in Millions) | - | 0.000 | 0.000 | 8.001 | 0.000 | 8.001 | 0.200 | 0.000 | 0.000 | 0.000 | - | 8.201 |
| (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, PE 0305903F, P-3A Mod 006, MCCC Upgrade Block 04, is a new start.
COMBATANT COMMANDER (COCOM), MOBILE CONSOLIDATED COMMAND CENTER (MCCC):
The COCOM's MCCC provides a resilient command, control, communications, computers, intelligence (C4I), reliability and maintainability capability while accomplishing directed COCOM missions. The MCCC provides C4I for Homeland Security Support/Homeland Defense (HLS/HLD) and USNORTHCOM missions. MCCC modification efforts funded in this line include upgrading MCCC shelters and incorporating additional C4I system capabilities via mobile Information Technology and Communication Upgrade projects; ensuring the platform's ability to rapidly deploy, re-constitute and operate.

FY21 funding will execute MCCC Block 04 modifications which include but are not limited to: 1) Communication systems upgrades; 2) Mission and support asset upgrades; 3) Cyber security modernization; 4) Network upgrades; 5) Environmental and Filtration system upgrades along with and including initial spares and test facility updates required by the fielding of these modifications. Due to the limited spares demand rate and indefinite system lifespan, Life of Type buys may be required to support weapon system modifications across the active MCCC Block Programs. FY21 will also fund Program Management Administration (PMA) support for the MCCC Block 03 Program initiated in FY20.

PMA costs fund acquisition support/strategy, engineering and technical expertise associated with procurement activities. In addition, PMA costs will also support equipment test, travel, and other program related costs associated with install of procurement equipment. Funding for this effort is in Program Element 0305903F and is funded IAW full funding policy.
Milestone/Development Status
Sustainment

## UNCLASSIFIED



## UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2021 Air Force Appropriation / Budget Activity / Budget Sub Activity: 3080F / 03 / 3

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

## Modification Item 1 of 1: MCCC (5)



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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 |
| :--- | :--- | :--- |
| $001 /$ Core C2 Enterprise Network <br> Infrastructure and Mission Equipment | CheyenneMountainComplex | Reliability \& Maintainability |

UNCLASSIFIED

| Exhibit P-40a, Budget Item Justification For Aggregated Modification Items: PB 2021 Air Force |  |  | Date: February 2020 |
| :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3080F / 03 / 3 |  | P-1 Line Item Number / 833160 / Cheyenne Mou | Aggregated Modification Items Title: NCMC - TWIAA System |
| Item Number / Title | Models of Systems Affected | Modification Type |  |
| NCMCB1 / NORAD Cheyenne Mountain Complex Block 01 | NORADCheyenneMountainComplex | Reliability \& Maintainability |  |
| NCMCB2 / NORAD Cheyenne Mountain Complex Block 02 | NORADCheyenneMountainComplex | Reliability \& Maintainability |  |
| NCMCB3 / NORAD Cheyenne Mountain Complex Block 03 | NORADCheyenneMountainComplex | Reliability \& Maintainability |  |
| NCMCB4 / NORAD Cheyenne Mountain Complex Block 04 | NORADCheyenneMountainComplex | Reliability \& Maintainability |  |


| Appropriation / Budget Activity / Budget Sub Activity: |
| :--- |
| 3080F: Other Procurement, Air Force / BA 03: Electronics and Telecommunications |
| Equip / BSA 3: Electronics Programs |

## P-1 Line Item Number / Title:

833170 / Mission Planning Systems

| ID Code (A=Service Ready, B=Not Service Ready): A | Program Elements for Code B Items: N/A | Other Related Program Elements: 0208006F |
| :--- | :--- | :--- |

Line Item MDAP/MAIS Code: N/A

| Resource Summary | Prior <br> Years | FY 2019 | FY 2020 | $\begin{gathered} \text { FY } 2021 \\ \text { Base } \end{gathered}$ | $\begin{gathered} \text { FY } 2021 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \text { FY } 2021 \\ \text { Total } \end{gathered}$ | FY 2022 | FY 2023 | FY 2024 | FY 2025 | To Complete | Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Procurement Quantity (Units in Each) | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Cost (\$ in Millions) | - | 12.092 | 14.508 | 15.132 | - | 15.132 | 14.878 | 15.695 | 17.961 | 18.290 | - | 108.556 |
| Less PY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Net Procurement (P-1) (\$ in Millions) | - | 12.092 | 14.508 | 15.132 | - | 15.132 | 14.878 | 15.695 | 17.961 | 18.290 | - | 108.556 |
| Plus CY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Total Obligation Authority (\$ in Millions) | - | 12.092 | 14.508 | 15.132 | - | 15.132 | 14.878 | 15.695 | 17.961 | 18.290 | - | 108.556 |
| (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 Dollars) | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Unit Cost (\$ in Dollars) | - | - | - | - | - | - | - | - | - | - | - | - |

## Description:




 their operational users, including Guard and Reserve Forces.

 most effective operational missions in a timely manner.

 effectively perform a variety of military missions.



 mission planning environment.





## Appropriation / Budget Activity / Budget Sub Activity:

3080F: Other Procurement, Air Force / BA 03: Electronics and Telecommunications Equip / BSA 3: Electronics Programs
ID Code (A=Service Ready, B=Not Service Ready): A
Program Elements for Code B Items: N/A
Other Related Program Elements: 0208006F

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


 computers and their concept of operations.






 aircrew and aircraft survivability and aircrew readiness.




 type buys or bridge buys limited to the program of record quantity.

Funding for this exhibit contained in PE 0208006F.
 to each research, development, test and evaluation and procurement account will be allocated proportionally from all programs, projects, or activities under such account.

Exhibit P-40, Budget Line Item Justification: PB 2021 Air Force
Appropriation / Budget Activity / Budget Sub Activity:
3080F: Other Procurement, Air Force / BA 03: Electronics and Telecommunications
Equip / BSA 3: Electronics Programs

## P-1 Line Item Number / Title:

 833170 / Mission Planning Systems Equip / BSA 3: Electronics Programs| ID Code (A=Service Ready, B=Not Service Ready): A | Program Elements for Code B Items: N/A | Other Related Program Elements: 0208006F |
| :--- | :--- | :--- | :--- |
| Line Item MDAP/MAIS Code: N/A |  |  |

Line Item MDAP/MAIS Code: N/A

| Exhibits Schedule |  |  |  |  | Prior Years | FY 2019 | FY 2020 | FY 2021 Base | FY 2021 OCO | FY 2021 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 | Mission Planning Systems |  |  |  | - 1 - | - /12.092 | - /14.508 | - / 15.132 | - 1 - | - /15.132 |
| P-40 | Total Gross/Weapon System Cost |  |  |  | - 1 - | - / 12.092 | - /14.508 | - / 15.132 | 1 | - / 15.132 |

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

## Justification:



 centrally managed and distributed by the Mission Planning System Support Facility and the Defense Logistics Agency. The following kinds of equipment and mission areas will be supported:



 operational users:

Air Combat Command (ACC): F-15, F-16,F-22,F-35, A-10, E-3, E-4, E-8,RC/OC-135, HH-60, HC-130, EC-130, U-2, RQ-4
Air Mobility Command: C-5, C-17, C-130, KC-10, KC-135, KC-46
Air Force Global Strike Command (AFGSC): B-2, B-52, B-1, UH-1
Air Education and Training Command (AETC): T-38, T-7A
Funding for this effort is in program element 0208006F.


 hardware warranties. Funding for this effort is in program element 0208006F.
 (JPADS) procurement program. Items 1b and 2i,2j in aggregated items table.

UNCLASSIFIED

| Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2021 Air Force |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Date: February 2020 <br> Aggregated Items Title: Mission Planning Systems |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3080F / 03 / 3 |  |  |  |  |  |  |  | P-1 Line Item Number / Title: 833170 / Mission Planning Systems |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  MDAP/ <br> ID MAIS <br> CD Code |  | Prior Years |  |  | FY 2019 |  |  | FY 2020 |  |  | FY 2021 Base |  |  | FY 2021 OCO |  |  | FY 2021 Total |  |  |
| Item Number / <br> Title [DODIC] |  |  | Unit Cost (\$) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost (\$M) | Unit Cost (\$) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost <br> (\$M) | Unit Cost (\$) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost <br> (\$ M) | Unit Cost (\$) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | Total Cost <br> (\$ M) | Unit Cost (\$) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost <br> (\$ M) | Unit Cost (\$) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost (\$ M) |
| Uncategorized |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1. Mission Planning Systems (MPS) | A |  | - | - | 0.000 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| a. MPS Hardware | A |  | - | - | - | - | - | 7.482 | - | - | 8.576 | - | - | 9.189 | - | - | - | - | - | 9.189 |
| b. MPS Program Management Administration (Contractor Services) | A |  | - | - | - | - | - | 0.703 | - | - | 0.724 | - | - | 0.745 | - | - | - | - | - | 0.745 |
| 2. Precision Aerial Delivery Systems (PADS) | A |  | - | - | 0.000 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| a. PADS Dropsondes | A |  | - | - | - | - | - | - | - | - | - | 64,216.00 | 35 | 2.248 | - | - | - | 64,216.00 | 35 | 2.248 |
| b. PADS Shipping | A |  | - | - | 0.000 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| c. PADS Support Services \& Spares | A |  | - | - | - | - | - | - | - | - | - | - | - | 0.207 | - | - | - | - | - | 0.207 |
| d. PADS System Engineering \& Logistical Support | A |  | - | - | - | - | - | 0.499 | - | - | 0.493 | - | - | 0.503 | - | - | - | - | - | 0.503 |
| e. PADS Testing | A |  | - | - | 0.000 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| f. PADS Delivery Systems | A |  | - | - | - | 26,583.00 | 112 | 2.2 .977 | 15,763.00 | 273 | 4.303 | 12,855.00 | 148 | 1.903 | - | - | - | 12,855.00 | 148 | 1.903 |
| g. PADS PARANAVSYS Delivery Systems | A |  | - | - | 0.000 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| h. PADS Delivery System Riggings \& Services | A |  | - | - | 0.000 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| i. Program Management Administration (Government Cost) | A |  | - | - | - | - | - | 0.115 | - | - | 0.105 | - | - | 0.037 | - | - | - | - | - | 0.037 |
| j. Program Management Administration (Contractor Services) | A |  | - | - | - | - | - | 0.316 | - | - | 0.307 | - | - | 0.301 | - | - | - | - | - | 0.301 |
| k. PADS Ultralight | A |  | - | - | 0.000 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| I. PADS Drives \& Storage Devices | A |  | - | - | 0.000 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| m. Depot Equipment | A |  | - | - | 0.000 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Subtotal: Uncategorized |  |  | - | - | - | - | - | 12.092 | - | - | 14.508 | - | - | 15.132 | - | - | - | - | - | 15.132 |
| Total |  |  | - | - | - | - | $\cdot$ | 12.092 | - | - | 14.508 | - | - | 15.132 | - | - | - | - | - | 15.132 |
| Note: Subtotals or Totals in this Exhibit P-40a may not be exact or sum exactly, due to roun <br> Remarks: <br> Unit costs vary because different types/configurations of equipment are being procured. |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

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| Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2021 Air Force | Date: February 2020 |  |
| :--- | :--- | :--- |
| Appropriation / Budget Activity / Budget Sub Activity: | P-1 Line Item Number / Title: <br> $3080 F ~ / ~ 03 ~ / ~$ 3 | 833170 / Mission Planning Systems |

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| Exhibit P-40, Budget Line Item Justification: PB 2021 Air Force |  |  |  |  |  |  |  |  | Date: February 2020 |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: <br> 3080F: Other Procurement, Air Force / BA 03: Electronics and Telecommunications Equip / BSA 3: Electronics Programs |  |  |  |  |  | P-1 Line Item Number / Title: 833440 / Drug Interdiction Spt |  |  |  |  |  |  |
| ID Code (A=Service Ready, B=Not Service Ready): A |  |  | Program Elements for Code B Items: N/A |  |  |  |  | Other Related Program Elements: 0201110F |  |  |  |  |
| Line Item MDAP/MAIS Code: N/A |  |  |  |  |  |  |  |  |  |  |  |  |
| Resource Summary | Prior <br> Years | FY 2019 | FY 2020 | $\begin{gathered} \text { FY } 2021 \\ \text { Base } \end{gathered}$ | $\begin{gathered} \hline \text { FY } 2021 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \text { FY } 2021 \\ \text { Total } \end{gathered}$ | FY 2022 | FY 2023 | FY 2024 | FY 2025 | To Complete | Total |
| Procurement Quantity (Units in Each) | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Cost (\$ in Millions) | - | 0.233 | - | 0.000 | - | 0.000 | 0.000 | 0.000 | 0.000 | - | - | 0.233 |
| Less PY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Net Procurement (P-1) (\$ in Millions) | - | 0.233 | - | 0.000 | - | 0.000 | 0.000 | 0.000 | 0.000 | - | - | 0.233 |
| Plus CY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Total Obligation Authority (\$ in Millions) | - | 0.233 | - | 0.000 | - | 0.000 | 0.000 | 0.000 | 0.000 | - | - | 0.233 |
| (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: <br> Funding supports drug interdiction and counter-drug activities. <br> Funding for this exhibit contained in PE 0201110F. |  |  |  |  |  |  |  |  |  |  |  |  |
| Justification: <br> No FY21 funds requested. |  |  |  |  |  |  |  |  |  |  |  |  |

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Exhibit P-40, Budget Line Item Justification: PB 2021 Air Force
Date: February 2020

## P-1 Line Item Number / Title:

833560 / Integrated Strat Plan \& Analy Network (ISPAN) Equip / BSA 3: Electronics 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 2019 | FY 2020 | $\begin{gathered} \text { FY } 2021 \\ \text { Base } \end{gathered}$ | $\begin{gathered} \text { FY } 2021 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \text { FY } 2021 \\ \text { Total } \end{gathered}$ | FY 2022 | FY 2023 | FY 2024 | FY 2025 | To Complete | Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Procurement Quantity (Units in Each) | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Cost (\$ in Millions) | - | 7.337 | 8.601 | 9.806 | - | 9.806 | 9.482 | 9.648 | 9.820 | 10.000 | - | 64.694 |
| Less PY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Net Procurement (P-1) (\$ in Millions) | - | 7.337 | 8.601 | 9.806 | - | 9.806 | 9.482 | 9.648 | 9.820 | 10.000 | - | 64.694 |
| Plus CY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Total Obligation Authority (\$ in Millions) | - | 7.337 | 8.601 | 9.806 | - | 9.806 | 9.482 | 9.648 | 9.820 | 10.000 | - | 64.694 |
| (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:




 one of DoD's most complex classified computer systems and the only national force level planning system.



 USSTRATCOM Command and Control Facility.


 (COA) development and global situational awareness supporting both contingency and crisis planners.



 obsolete. Hardware and software Cyber Investments procured within the program are used to support all ISPAN program increments.

Funding for this exhibit is contained in Program Element 0101313F.

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

## Appropriation / Budget Activity / Budget Sub Activity:

3080F: Other Procurement, Air Force / BA 03: Electronics and Telecommunications Equip / BSA 3: Electronics 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 2019 | FY 2020 | FY 2021 Base | FY 2021 OCO | FY 2021 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 | Integrated Strat Plan \& Analy Network (ISPAN) |  |  |  | - 1 - | 17.337 | - 18.601 | - 19.806 | - 1 - | 19.806 |
| P-40 | Total Gross/Weapon System Cost |  |  |  | - 1 - | - 17.337 | - 18.601 | - 19.806 | 1 | 19.806 |

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

## Justification:






 USSTRATCOM Command and Control Facility.

NOTE: Hardware procured primarily as Commercial Off the Shelf (COTS) items in varying quantities, in multiple configurations, from multiple sources, using multiple contract vehicles.

| Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2021 Air Force |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Date: February 2020 |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity:$\text { 3080F / } 03 \text { / } 3$ |  |  |  |  |  |  |  | P-1 Line Item Number / Title: <br> 833560 / Integrated Strat Plan \& Analy Network (ISPAN) |  |  |  |  |  |  |  | Aggregated Items Title: Integrated Strat Plan \& Analy Network (ISPAN) |  |  |  |  |
| Item Number / <br> Title [DODIC] | $\begin{aligned} & \mathrm{ID} \\ & \mathrm{CD} \end{aligned}$ | mDAP/ mais Code | Prior Years |  |  | FY 2019 |  |  | FY 2020 |  |  | FY 2021 Base |  |  | FY 2021 OCO |  |  | FY 2021 Total |  |  |
|  |  |  | 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 (\$ 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 (\$ M) |
| Uncategorized |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| ISPAN Mission <br> Systems Hardware | A |  | - | - | - | - | - | - - | - | - | - | 0.405 | 2 | 0.810 | - | - | - | 0.405 | 2 | 0.810 |
| End-point Computing Devices | A |  | - | - | - | 0.264 |  | 1.0 .264 | 0.250 | 1 | 0.250 | 0.015 | 100 | 1.500 | - | - | - | 0.015 | 100 | 1.500 |
| UNIX/SPARC-based servers | A |  | - | - | - | 0.419 |  | $3 \quad 1.257$ | 0.850 | 1 | 0.850 | - | - | - | - | - | - | - | - | - |
| MPAS Virtual Servers | A |  | - | - | - | - | - | - | - | - | - | 0.250 | 9 | 2.250 | - | - | - | 0.250 | 9 | 2.250 |
| GAP CIE Deployment HW/SW | A |  | - | - | - | - | - | - - | 1.000 | 1 | 1.000 | - | - | - | - | - | - | - | - | - |
| PRP | A |  | - | - | - | 0.625 |  | $1{ }^{1} 0.625$ | - | - | - | - | - | - | - | - | - | - | - | - |
| ISPAN B-Network | A |  | - | - | 0.000 | - | - | - - | - | - | - | - | - | - | - | - | - | - | - | - |
| ISPAN Security Enclaves (SIPR, TS/ C, \& JWICS) | A |  | - | - | 0.000 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| ISPAN Virtual Data Storage System | A |  | - | - | - | - | - | - | 1.534 | 1 | 1.534 | 0.510 | 3 | 1.530 | - | - | - | 0.510 | 3 | 1.530 |
| ISPAN Analysis Systems -- IWMDT and EADSIM | A |  | - | - | - | 0.280 |  | 10.280 | - | - | - | - | - | - | - | - | - | - | - | - |
| ISPAN Systems at Geographically Separated Location(s) | A |  | - | - | - | - | - | - | - | - | - | 0.500 | 2 | 1.000 | - | - | - | 0.500 | 2 | 1.000 |
| ISPAN Systems reconstitute at GSUs | A |  | - | - | - | - | - | - | - | - | - | 0.375 | 2 | 0.750 | - | - | - | 0.375 | 2 | 0.750 |
| Block 1 Major Hardware | A |  | - | - | - | - | - | - | 0.277 | 4 | 1.108 | - | - | - | - | - | - | - | - | - |
| H/W and S/W to <br> Deploy Comman Access Card System | A |  | - | - | 0.000 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Cross Domain Guard Solution | A |  | - | - | - | - | - | - | 0.750 | 1 | 0.750 | - | - | - | - | - | - | - | - | - |
| System to Ingest External Data into ISPAN | A |  | - | - | 0.000 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| ISPAN Network Systems | A |  | - | - | - | - | - | - | 0.464 | 1 | 0.464 | 0.551 | 1 | 0.551 | - | - | - | 0.551 | 1 | 0.551 |
| Testing and Experimentation of ISPAN Mission Systems | A |  | - | - | - | 1.218 |  | $3 \quad 3.654$ | 0.500 | 2 | 1.000 | - | - | - | - | - | - | - | - | - |
| ISPAN Systems for Off-Site Developers (GFE) | A |  | - | - | - | 0.382 |  | 10.382 | 0.500 | 1 | 0.500 | 0.162 | 4 | 0.648 | - | - | - | 0.162 | 4 | 0.648 |

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| Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2021 Air Force |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Date: February 2020 |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3080F / 03 / 3 |  |  |  |  |  |  |  | P-1 Line Item Number / Title: <br> 833560 / Integrated Strat Plan \& Analy Network (ISPAN) |  |  |  |  |  |  |  | Aggregated Items Title: Integrated Strat Plan \& Analy Network (ISPAN) |  |  |  |  |
|  | $\begin{aligned} & \text { ID } \\ & \text { CD } \end{aligned}$ | MDAP/ MAIS Code | Prior Years |  |  | FY 2019 |  |  | FY 2020 |  |  | FY 2021 Base |  |  | FY 2021 OCO |  |  | FY 2021 Total |  |  |
| Item Number / Title [DODIC] |  |  | Unit Cost (\$ M) | Qty (Each) | 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) | Qty (Each) | Total Cost (\$ M) | Unit Cost (\$ M) | Qty (Each) | Total Cost (\$ M) | Unit Cost (\$ M) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost (\$ M) |
| Enterprise Licence Agreements ISPAN Mission Systems | A |  | - | - | 0.000 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Program Management Administration (Government Cost) | A |  | - | - | - | 0.010 | 1 | $1{ }^{1} \quad 0.010$ | 0.010 | 1 | 0.010 | 0.010 | 1 | 0.010 | - | - | - | 0.010 | 1 | 0.010 |
| Program Management Administration (Contractor Services) | A |  | - | - | - | 0.173 | 5 | $5 \quad 0.865$ | 0.227 | 5 | 1.135 | 0.757 | 1 | 0.757 | - | - | - | 0.757 | 1 | 0.757 |
| USSTRATCOM C2 Building Hardware \& Networks | A |  | - | - | 0.000 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Subtotal: Uncategorized |  |  | - | - | - | - | - | 7.337 | - | - | 8.601 | - | - | 9.806 | - | - | - | - | - | 9.806 |
| Total |  |  | - | - | - | - | - | 7.337 | - | - | 8.601 | - | - | 9.806 | - | - | - | - | - | 9.806 |

## Appropriation / Budget Activity / Budget Sub Activity:

3080F: Other Procurement, Air Force / BA 03: Electronics and Telecommunications Equip / BSA 4: Spcl Comm-Electronics Projects

| ID Code (A=Service Ready, B=Not Service Ready): A |  |  | Program Elements for Code B Items: N/A |  |  |  |  | Other Related Program Elements: 0207697F, 0305173F, 0305174F, 0305601F, 0604281F, 0804721F, 0804752F, 0901279F, 0901299F, 0901410F, 0901538F, 1203173F |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Line Item MDAP/MAIS Code: CAMI |  |  |  |  |  |  |  |  |  |  |  |  |
| Resource Summary | Prior <br> Years | FY 2019 | FY 2020 | $\text { FY } 2021$ Base | $\begin{gathered} \text { FY } 2021 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \text { FY } 2021 \\ \text { Total } \end{gathered}$ | FY 2022 | FY 2023 | FY 2024 | FY 2025 | To Complete | Total |
| Procurement Quantity (Units in Each) | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Cost (\$ in Millions) | 0.000 | 34.624 | 36.753 | 39.887 | 5.100 | 44.987 | 47.346 | 97.745 | 92.050 | 99.647 | - | 453.152 |
| Less PY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Net Procurement (P-1) (\$ in Millions) | 0.000 | 34.624 | 36.753 | 39.887 | 5.100 | 44.987 | 47.346 | 97.745 | 92.050 | 99.647 | - | 453.152 |
| Plus CY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Total Obligation Authority (\$ in Millions) | 0.000 | 34.624 | 36.753 | 39.887 | 5.100 | 44.987 | 47.346 | 97.745 | 92.050 | 99.647 | - | 453.152 |
| (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:

PE 0201130F US Northern Command Communications - P-40A
a. NORAD AND USNORTHCOM INTEROPERABLE COMMUNICATIONS: This includes mission specific communications enhancements to support extension of Public Switched Telephone Network (PSTN),
 communications systems. This program combines the Interoperable Communications and Joint Tactical Radio System (JTRS) compliant radio handsets to enable the Defense Support of Civil Authorities mission.
b. DEPLOYABLE COMMUNICATIONS CAPABILITIES SYSTEM LIFE CYCLE MANAGEMENT: The USNORTHCOM Deployable Communications Fleet consists of Emergency Response Vehicles (ERV) Mobile Command Platforms (MCP), Rapid Response Kits (RRK) and fly-away communications systems, in expeditionary modular and scalable form factors that can be flown on commercial airlines or military aircraft to


PE 0207277F ISR Innovations - P-40A
Family of systems providing high impact, quick reaction capabilities to warfighters for mission planning, rehearsal, visualization, and intelligence gathering purposes. Program components include: Eagle Vision, DoD's worldwide deployable commercial imagery ground station capability, and ISR innovations, rapid prototyping, operational evaluation and fielding of short notice, high payoff capabilities addressing immediate caps and/or shortfalls identified by warfighting activities. Eagle Vision provides direct downlink commercial imagery to operational commanders for mission support purposes.

In accordance with Section 1815 of the FY2008 National Defense Authorization Act (P.L. 110-181), this item is necessary for use by the active and reserve components of the armed forces for homeland defense missions, domestic emergency responses, and providing military support to civil authorities.

PE 0207439F Electronic Warfare Integrated Reprogramming (EWIR) - P-40A
DISTRIBUTED MISSION OPERATIONS AND THREAT CHANGE ANALYSIS: Conducted by the 453rd Electronic Warfare Squadron (453 EWS), EWIR provides analytical capabilities and reachback support for DoD acquisition , planning and mission execution activities. These capabilities ensure electronic warfare (EW) systems and integrated combat platforms correctly recognize and respond to enemy, friendly and noncombatant systems operating within the electromagnetic environment. The effort includes funds used to procure specialized information technology systems used to identify electromagnetic spectrum emitter changes that impact combat defensive and electronic warfare systems and to conduct detailed analyses in support of operational mission planning, tactics, techniques and procedures (TTP)

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(
Appropriation / Budget Activity / Budget Sub Activity:
3080F: Other Procurement, Air Force / BA 03: Electronics and Telecommunications
Equip / BSA 4: Spcl Comm-Electronics Projects

P-1 Line Item Number / Title:
834010 / General Information Technology

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

Other Related Program Elements: 0207697F, 0305173F,
0305174F, 0305601F, 0604281F, 0804721F, 0804752F, 0901279F, 0901299F, 0901410F, 0901538F, 1203173F

## Line Item MDAP/MAIS Code: CAMI

development,acquisition and test \& evaluation. These analyses provide the means to understand the performance of their systems in hostile environments, directly impacting the survivability of combat-coded USAF aircraft and aircrews. Funding for this exhibit contained in PE 0207439F.

PE 0207448F C2ISR Tactical Data Link - P-40A





 (JTRS) radios.

PE 0207573F National Technical Nuclear Forensics - P-40A
 Funding also includes procurement of technical data and any required initial system support. Funding was moved from BPAC 834320 starting in FY20.

PE 0207605F Wargaming and Simulation Centers - P-40A

PE 0207697F Distributed Training and Exercises - P-40A
 Region, United States Air Force, and Combatant Commands worldwide. Funding for this exhibit contained in PE 0207697F.

PE 0208288F Intel Data Applications - P-40A
 Intelligence data applications.

PE 0305128F Security and Investigative Activities - P-40A




 enforcement and intelligence communities.

PE 0305173F Space and Missile Test and Evaluation Center - P-40A
The Research and Development Space and Missile Operations (RDSMO) program has transferred from PE 0305173F to PE $1203173 F$.
PE 0305174F Space Innovation, Integration and Rapid Technology Development - P-40A

| Appropriation / Budget Activity / Budget Sub Activity: |
| :--- |
| 3080F: Other Procurement, Air Force / BA 03: Electronics and Telecommunications |
| Equip / BSA 4: Spcl Comm-Electronics Projects |

## P-1 Line Item Number / Title:

834010 / General Information Technology

Program Elements for Code B Items: N/A
Other Related Program Elements: 0207697F, 0305173F
0305174F, 0305601F, 0604281F, 0804721F, 0804752F, 0901279F, 0901299F, 0901410F, 0901538F, 1203173F

## Line Item MDAP/MAIS Code: CAMI

 Command's Space Analysis Center uses for operations research, military utility analyses, tradeoff studies, and other evaluations of space mission areas to guide planning, programming, requirements generation, analyses of alternatives, and other activities. Development activities incorporate changes in fielded and projected space operational capabilities, as well as technical improvements, into the group's software tools to ensure their data and technology remain current. Its innovation, education, and training activities foster solutions to operational deficiencies and enhance the integration of space systems into Air Force operations, thereby enabling service and joint warfighters to realized the full potential of existing and planned space capabilities.

DISTRIBUTED COMMUNICATIONS ARCHITECTURE: This system provides a network based communications capability enabling dispersed space personnel to participate in space exercises and wargames and to assist in development, testing, and validation of SIIRTD innovation projects supporting the Combat Air Forces. It can also support limited command and control capabilities for space operations.

SPACE ANALYSIS CENTER: Air Force Space Command's Space Analysis Center uses modeling and simulation tools to conduct operations research, military utility analyses, tradeoff studies, and other evaluations of space mission areas to guide planning, programming, requirements generation, analyses of alternatives, and other activities. Related modeling and simulation tool development is funded in RDT\&E, AF, PE 0305174F, Space Innovation, Integration and Rapid Technology Development.

PE 0305601F Mission Partner Environments - P-40A
Mission Partner Environment (MPE) enables secure sharing of operational information for collaboration between and among the U.S. and mission partners to include federal, State, local, and tribal agencies, allies, coalition members, host nations, and other nations, United States and international Non-Governmental Organizations, multinational treaty organizations, and private sector organizations. The MPE program enables the United States (US) Department of Defense (DoD) to execute its assigned missions with mission partners across the complete ranges and phases of military operations to assist combined command and control (C2) of coalition forces while meeting the information sharing requirements within existing bi-lateral and multi-lateral agreements. Also, it promotes effective information exchange and provides applications to enable effective use of the United States and Partner nation military power. MPE provides the warfighter mission with technology to improve mission effectiveness and cyber security.

PE 0604281F Tactical Data Networks Enterprise - P-40A
Tactical Data Link (TDL) enterprise efforts include equipment, fielding support, and associated contract support for the fielded Family of Gateways, as well as capability enhancements to TDLs, gateways, and AF contributions to the Joint Aerial Layer Network (JALN). These airborne networking systems enable combat forces to exchange information quickly and accurately by bridging discrete airborne, terrestrial, maritime, and space-based C4ISR networks. Tactical Data Network (TDN) Planning, Analysis and Monitoring (PAM) will add capability to modernize CONUS ground-based TDL gateways. Full Motion Video effort includes equipment, fielding support, contractor support, and training. These systems will add capability to modernize CONUS/OCONUS ground based strike decisions in the hostile environment.

PE 0708012F Logistics Support Activities - P-40A
GUNTER AIR FORCE BASE NETWORK SERVICES provide unique local area network (LAN) hardware to the population at Maxwell Air Force (MAFB)-Gunter Annex, AL including equipment for web access, file storage backup, information security, and application testing for AF programs worldwide hosted at MAFB-Gunter Annex, AL. LAN equipment enables MAFB-Gunter Annex to manage/support 122 programs and systems worldwide. MAFB-Gunter Annex exceeds the standard Base Information Transport Infrastructure (BITI) environment, therefore no funding is provided by BITI.

PE 0708074F Joint Logistics Program - Total Asset Visibility - P-40A
AUTOMATIC IDENTIFICATION TECHNOLOGY (AIT): A collection of enabling technologies including linear and two-dimensional bar codes, radio frequency identification, smart cards, memory cards, laser cards, touch memory, and voice and biometrics identification. These technologies provide timely and accurate automatic capture, aggregation, and transfer of data to management information systems with minimal human involvement. By capitalizing on advances in technology the Air Force is able to gain efficiencies in the logistical supply chain and asset visibility throughout an item's life cycle. Project funding enables compatibility of Air Force and industry standards in the core areas of supply, transportation, and maintenance, as well as weaving commercial AIT business practices and standards into the Air Force's logistics infrastructure.

PE 0801380F AF LVC Operational Training (LVC-OT) - P-40A
PE 0801380F AF LVC Operational Training (LVC-OT)
Appropriation / Budget Activity / Budget Sub Activity:
3080F: Other Procurement, Air Force / BA 03: Electronics and Telecommunications
Equip / BSA 4: Spcl Comm-Electronics Projects

## P-1 Line Item Number / Title:

834010 / General Information Technology

Other Related Program Elements: 0207697F, 0305173F,

## Line Item MDAP/MAIS Code: CAMI

SIMULATORS COMMON ARCHITECTURE REQUIREMENTS AND STANDARDS (SCARS): An initiative to incrementally establish a common open-system architecture for Air Force simulators that leverages common applications, supports efficient and rapid updates to capabilities, evolves with cybersecurity threats and controls, and minimizes lifecycle costs.

PE 0804711F Recruit Training Units - P-40A
BASIC MILITARY TRAINING (BMT) SURVEILLANCE SECURITY SYSTEM: Basic Military Training sustains the combat capability of the Air Force (Active duty, Air National Guard and Air Force Reserve Command) with trained airmen. MTI Misconduct-Restore The Trust/Requirements associated with MTI misconduct issues at BMT. Due to the sexual misconduct by MTIs at BMT, AETC/CC directed a Commander Directed Investigation (CDI) to identify issues that place Airmen at risk in their training environment. SECAF/CSAF support findings and recommended actions to "Eliminate Detection Weakness". This effort continues the purchase, installation, and integration of a surveillance system covering common areas of the BMT facilities at JBSA-Lackland AFB for the deterrence and prosecution of misconduct. It includes hardware, system engineering/test and evaluation, site survey, infrastructure installation and support. Detailed requirements include: network switch, network storage device/upgrade package, computer monitor, site license, channel expansion license, hard drive, uninterruptable power supply, extended battery, digital monitor, cameras, and camera communication cable.

PE 0804721F Service Academies - P-40A
AIR FORCE ACADEMY:
FIX AIR FORCE ACADEMY MISSION NET: USAFA is executing a multi-year project to fix disconnects/deficiencies in its University-wide WiFi system on its primary mission network. Most buildings were built in the 1960s (governed by historic preservation rules/restrictions), and either do not have any WiFi at all, or have sub-standard WiFi coverage insufficient to meet USAFA's mission requirements for academics, military training, aviation/airmanship, and NCAA athletics. PEC 84721 IT Investment funds ( 3080 ) are sole source of funding for this multi-year program to fix these disconnects/deficiencies, and ensure we are able to meet our 10 U.S.C Section 9453 requirement to graduate \& commission approximately 1,0002 Lt's each year. The lack of WiFis a direct, causal \& imminent risk to USAFA's accreditation as a degreegranting university. Costs will be in excess of the $\$ 1.5 \mathrm{M}$ programmed each year across the FYDP, and will continue year-by-year after until the disconnects/deficiencies are fixed (estimated at $8+$ years).

PE 0804731F General Skill Training - P-40A
GENERAL SKILL TRAINING: General Skills Training supports initial, advanced and supplemental training associated with all Air Force career fields taught or managed under Goodfellow, Keesler, Vandenberg, Sheppard, Lackland, and Fort Sam. This includes classroom and field training operations, management systems for students and faculty, and other requirements directly supporting Technical Training Groups, detachments, and various operating locations.

TECHNICAL TRAINING MANAGEMENT SYSTEM (TTMS): TTMS provides AETC personnel and other users a suite of integrated and customized Commercial Off-The-Shelf (COTS)/Government Off-The-Shelf (GOTS) software products implemented in a centralized, enterprise-wide, web-based architecture for the development and administration of basic military and technical training. TTMS supports nine functions: student management, course design and development (for AETC and METC), student evaluation, statistical analysis and reporting, surveys, assessments and testing, Airman Interactive Management System (AIMS) for MTLs, Job Match/Seat Bank, and TTMS BMT for student processing.

PE 0804751F Professional Military Education - P-40A
Air University (AU) Education Technology (ET) Program funds the cradle-to-grave lifecycle management of IT systems, services, and resources that comprise AU Enterprise ET/IT portfolio. The primary systems under AU IT are CDSAR, STARS, AUSIS, AUSRIS, AUREPM, and AUSMS. This portfolio provides enrollment, content delivery, and student administration capabilities critical to all AU resident and non-resident courses. At the Air Force level, A6 provides the system of record capability for all AF PME/PCE; a system crucial to ensuring a fully prepared (trained and educated) expeditionary force. As AU aggressively pursues the enhancement of processes by which educational products are delivered to students, ET/IT demands will increase in frequency and complexity. Quickly revising software and inserting technology into those processes in a timeframe adequate to realize return on investment dollars or educational benefits requires an appropriately resourced A6 organization.

PE 0804752F Other Professional Education - P-40A
Accreditation of AFIT's engineering programs is directly related to both the existence of the well-equipped and maintained laboratories and an institutional commitment to fund equipment and maintenance. To serve the research needs of the USAF/DoD, students have up-to-date equipment to make tangible contributions to AF research needs. Existing equipment has reached the age where the cost to maintain it is impractical.

## Appropriation / Budget Activity / Budget Sub Activity:

3080F: Other Procurement, Air Force / BA 03: Electronics and Telecommunications Equip / BSA 4: Spcl Comm-Electronics Projects

## P-1 Line Item Number / Title:

834010 / General Information Technology

| ID Code (A=Service Ready, B=Not Service Ready): A |
| :--- |
| Line Item MDAP/MAIS Code: CAMI |
| PE 0901279F Facilities Operation - Administrative - P-40A |
| CIVIL ENGINEER'S (CE) IT TRANSFORMATION: CE IT Tra |




 Management, Planning, Emergency Services, Fire Operations and EOD.

PE 0901299F AF A1 Systems - P-40A

 equipment to support all phases of the personnel life cycle, including accession, training, assignment, promotion, and retirement/separation. There are two programs:



 compliance efforts directed by Public Law 104-106 and 105-261 and DoDI 1400.25, Vol 1100.

PE 0901410F Contracting Information Technology System - P-40A



 exhibit contained in PE 0901410F.

PE 0901538F Financial Management Information Systems Development - P-40A


 conventions, which will enable standardization of data across the Department of Defense (DoD). Funding for this exhibit contained in PE 0901538F.

Exhibit P-40, Budget Line Item Justification: PB 2021 Air Force
Date: February 2020

## Appropriation / Budget Activity / Budget Sub Activity:

3080F: Other Procurement, Air Force / BA 03: Electronics and Telecommunications Equip / BSA 4: Spcl Comm-Electronics Projects

| ID Code (A=Service Ready, B=Not Service Ready): A |  | Program Elements for Code B Items: N/A |  |  |  |  | Other Related Program Elements: 0207697F, 0305173F, 0305174F, 0305601F, 0604281F, 0804721F, 0804752F, 0901279F, 0901299F, 0901410F, 0901538F, 1203173F |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Line Item MDAP/MAIS Code: CAMI |  |  |  |  |  |  |  |  |  |  |
| Exhibits Schedule |  |  |  |  | Prior Years | FY 2019 | FY 2020 | FY 2021 Base | FY 2021 OCO | FY 2021 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 | US Northern Command Communications |  |  |  | 1 | - 13.694 | - 13.757 | - 13.819 | - 1 | - 13.819 |
| P-40a | ISR Innovations |  |  |  | - 1 - | - 15.674 | - 10.000 | - 10.000 | 1 | - 10.000 |
| P-40a | Electronic Warfare Integrated Reprogramming (EWIR) |  |  |  | - 1 - | - 10.000 | - 11.443 | - 11.466 | - 1 - | - 11.466 |
| P-40a | C2ISR Tactical Data Link |  |  |  | 1 | - 10.000 | - 12.290 | - 13.342 | - 1 - | - 13.342 |
| P-40a | National Technical Nuclear Forensics |  |  |  | - 1 - | - 10.000 | - 14.581 | - 15.202 | - 1 | - 15.202 |
| P-40a | Wargaming and Simulation Centers |  |  |  | - 1 - | 10.755 | - 10.769 | - 10.000 | - 1 - | - 10.000 |
| P-40a | Distributed Training and Exercises |  |  |  | - 1 - | 10.000 | - 10.324 | - 10.330 | 1 | - 10.330 |
| P-40a | Intel Data Applications |  |  |  | - 1 - | - 10.000 | - 15.338 | - 10.344 | - 15.100 | - 15.444 |
| P-40a | Security and Investigative Activities |  |  |  | 1 | - 11.692 | - 11.722 | - 10.450 | - 1 | - 10.450 |
| P-40a | Mission Partner Environments |  |  |  | - 1 - | - 11.873 | - 11.585 | - 10.478 | - 1 | - 10.478 |
| P-40a | Communications and Information Technology |  |  |  | - 1 - | - 10.000 | - 10.000 | - 13.796 | - 10.000 | - 13.796 |
| P-40a | Tactical Data Networks Enterprise |  |  |  | - 1 | - 16.614 | - 10.179 | - 12.407 | - 1 | - 12.407 |
| P-40a | Logistics Support Activities |  |  |  | 1 | - 10.000 | - 11.435 | - /1.491 | - 1 | - 11.491 |
| P-40a | Logistics Information Technology (LOGIT) |  |  |  | 1 | - 10.000 | - 10.000 | - 10.391 | - 10.000 | - 10.391 |
| P-40a | AF LVC Operational Training (LVC-OT) |  |  |  | 1 | - 10.000 | - 14.820 | - /11.986 | - 1 | - /11.986 |
| P-40a | Recruit Training Units |  |  |  | - 1 | - 10.799 | - 10.816 | - 10.629 | - | - 10.629 |
| P-40a | Service Academies |  |  |  | 1 - | - 10.000 | - 10.500 | - 11.498 | - | - 11.498 |
| P-40a | General Skill Training |  |  |  | - 1 - | 10.000 | - 10.673 | - 10.684 | - 1 - | - 10.684 |
| P-40a | Professional Military Education |  |  |  | - 1 - | 10.964 | - 10.981 | - 10.398 | - 1 - | - 10.398 |
| P-40a | Other Professional Education |  |  |  | 1 | 10.467 | - 10.475 | - 10.482 | - 1 | - 10.482 |
| P-40a | AF A1 Systems |  |  |  | 1 | - 11.706 | - 13.099 | - 10.000 | - 1 | - 10.000 |
| P-40a | Contracting Information Technology System |  |  |  | 1 | - 15.000 | - 1 - | - 10.000 | - 1 - | - 10.000 |
| P-40a | Financial Management Information Systems Development |  |  |  | - 1 - | - 15.386 | - 11.966 | - 10.694 | 1 | - 10.694 |
| P-40 | Total Gross/Weapon System Cost |  |  |  | - 10.000 | - 134.624 | - 136.753 | - 139.887 | - 15.100 | - 144.987 |

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

## Justification:

PE 0201130F US Northern Command Communications - P-40A




## Appropriation / Budget Activity / Budget Sub Activity:

3080F: Other Procurement, Air Force / BA 03: Electronics and Telecommunications Equip / BSA 4: Spcl Comm-Electronics Projects
ID Code (A=Service Ready, B=Not Service Ready): A
Program Elements for Code B Items: N/A
P-1 Line Item Number / Title:
834010 / General Information Technology

| ID Code (A=Service Ready, B=Not Service Read |
| :--- |
| Line Item MDAP/MAIS Code: CAMI |

 maintenance of these USNORTHCOM deployable communication systems. A centralized managed construct to enable the configuration management of deployable communication systems.

PE 0207439F Electronic Warfare Integrated Reprogramming (EWIR) - P-40A
 quantities may change due to mission needs.

PE 0207448F C2ISR Tactical Data Link - P-40A
 Link 16 tactical networks. Funding for this exhibit contained in PE 0207448F.

PE 0207573F National Technical Nuclear Forensics - P-40A
 production and any required initial system support. Funding was moved from BPAC 834320 starting in FY 2020.

PE 0207697F Distributed Training and Exercises - P-40A
 support of CSAF and AFMAJCOMs objective priorities for Air Force Wargaming Enterprise.

PE 0208288F Intel Data Applications - P-40A
 support Intelligence data applications.

PE 0305128F Security and Investigative Activities - P-40A





PE 0305173F Space and Missile Test and Evaluation Center - P-40A
The Research and Development Space and Missile Operations (RDSMO) program has transferred from PE 0305173F to PE 1203173F.
PE 0305601F Mission Partner Environments - P-40A
FY 2021 funding procures hardware and software to support operations with the Mission Partners environment.
PE 0604281F Tactical Data Networks Enterprise - P-40A


 ground-based TDL gateways. Funding for this exhibit contained in PE 0604281F.

## Appropriation / Budget Activity / Budget Sub Activity:

3080F: Other Procurement, Air Force / BA 03: Electronics and Telecommunications Equip / BSA 4: Spcl Comm-Electronics Projects
ID Code (A=Service Ready, B=Not Service Ready): A
Program Elements for Code B Items: N/A
P-1 Line Item Number / Title:
834010 / General Information Technology

| ID Code (A=Service Ready, B=Not Service Ready): A |
| :--- |
| Line Item MDAP/MAIS Code: CAMI |
| PE $0708012 F$ Logistics Support Activities - P-40A |
| FY21 funding provides technical refresh of all hardw |


 systems and negative impact to personnel across the AF. Daily operations of AFLCMC/HI PMOs to develop, field, sustain, and manage their assigned systems is unhindered.

PE 0801380F AF LVC Operational Training (LVC-OT) - P-40A
PE 0801380F AF LVC Operational Training (LVC-OT)
 simulators. FY21 efforts include, but are not limited to, site connections to the operations center.

PE 0804711F Recruit Training Units - P-40A





 communication cable

PE 0804721F Service Academies - P-40A
AIR FORCE ACADEMY:


 aspects of the DepSecDef's "Accelerating Enterprise Cloud Adoption" mandate and SAF/CN's "USAF Cloud Migration" mandate. As such, it is USAFA's \#1 IT priority, and mission critical.

PE 0804731F General Skill Training - P-40A
 management systems equipment (other than TTMS).

PE 0804751F Professional Military Education - P-40A

 capability for all AF PME/PCE; a system crucial to ensuring a fully prepared (trained and educated) expeditionary force.

PE 0804752F Other Professional Education - P-40A

 courses.

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| Exhibit P-40, Budget Line Item Justification: PB 2021 Air Force |  |  |  | Date: February 2020 |
| :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3080F: Other Procurement, Air Force / BA 03: Electronics Equip / BSA 4: Spcl Comm-Electronics Projects | s and Telecommunications | P-1 Line Item Number / Title: <br> 834010 / General Information Technology |  |  |
| ID Code (A=Service Ready, B=Not Service Ready): A | Program Elements for Code B Items: N/A |  | Other Related Program Elements: 0207697F, 0305173F, 0305174F, 0305601F, 0604281F, 0804721F, 0804752F, 0901279F, 0901299F, 0901410F, 0901538F, 1203173F |  |

Line Item MDAP/MAIS Code: CAMI

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| Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2021 Air Force |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Date: February 2020 |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3080F / 03 / 4 |  |  |  |  |  |  |  | P-1 Line Item Number / Title: <br> 834010 / General Information Technology |  |  |  |  |  |  |  | Aggregated Items Title: US Northern Command Communications |  |  |  |  |
|  |  |  | Prior Years |  |  | FY 2019 |  |  | FY 2020 |  |  | FY 2021 Base |  |  | FY 2021 OCO |  |  | FY 2021 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) | $\begin{aligned} & \text { (Each) } \end{aligned}$ | Total Cost <br> (\$M) | Unit Cost (\$ M) | $\begin{aligned} & \text { (Each) } \end{aligned}$ | 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 <br> (\$M) | Unit Cost (\$ M) | $\underset{\text { (Each) }}{\text { Qty }}$ | Total Cost <br> (\$M) |
| Uncategorized |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| INTEROPERABLE COMMUNICATION | A |  | - | - | - | - | - | 0.526 | - | - | 0.526 | - | - | 0.526 | - | - | - | - | - | 0.526 |
| DEPLOYABLE COMMUNICATIONS CAPABILITY SYSTEM LIFE CYCLE MANAGEMENT | A |  | - | - | - | - | - | 3.168 | - | - | 3.231 | - | - | 3.293 | - | - | - | - | - | 3.293 |
| EARLY WARNING RADAR (EWR) COMMUNICATIONS EQUIPMENT | A |  | - | - | 0.000 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Subtotal: Uncategorized |  |  | - | - | - | - | - | 3.694 | - | - | 3.757 | - | - | 3.819 | - | - | - | - | - | 3.819 |
| Total |  |  | - | - | - | - | - | 3.694 | - | . | 3.757 | - | - | 3.819 | - | - | - | - | - | 3.819 |

UNCLASSIFIED

| Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2021 Air Force |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Date: February 2020 <br> Aggregated Items Title: ISR Innovations |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3080F / 03 / 4 |  |  |  |  |  |  |  | P-1 Line Item Number / Title: <br> 834010 / General Information Technology |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  | MDAP/ <br> MAIS <br> Code | Prior Years |  |  | FY 2019 |  |  | FY 2020 |  |  | FY 2021 Base |  |  | FY 2021 OCO |  |  | FY 2021 Total |  |  |
| Item Number / Title [DODIC] | $\begin{aligned} & \mathrm{ID} \\ & \mathrm{CD} \end{aligned}$ |  | 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) | $\underset{\text { (Each) }}{\text { Qty }}$ | Total Cost <br> (\$ M) | Unit Cost (\$ M) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost (\$ M) | Unit Cost (\$ M) | Qty (Each) | Total Cost (\$ M) | Unit Cost (\$ M) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost (\$ M) |
| Uncategorized |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| (1). EAGLE VISION DATA ACQUISITION SYSTEM REFRESH/ CAPITAL EQUIPMENT REPLACEMENT PE 0207277F | A |  | - | - | - | - | - | 4.277 | - | - | 0.000 | - | - | 0.000 | - | - | - | - | - | 0.000 |
| (3). EAGLE VISION PROGRAM MANAGEMENT ADMINISTRATION (PMA) | A |  | - | - | - | - | - | 1.397 | - | - | 0.000 | - | - | 0.000 | - | - | - | - | - | 0.000 |
| Subtotal: Uncategorized |  |  | - | - | - | - | - | 5.674 | - | - | 0.000 | - | - | 0.000 | - | - | - | - | - | 0.000 |
| Total |  |  | - | - | - | - | - | 5.674 | - | - | 0.000 | - | - | 0.000 | - | - | - | - | - | 0.000 |

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

## Remarks:



 performance to the Data Integration Segment (DIS), minimizing the Data Acquisition Segment (DAS), and incremental Commercial-Off-The-Shelf (COTS) integration.

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| Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2021 Air Force |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Date: February 2020 <br> Aggregated Items Title: Electronic Warfare Integrated Reprogramming (EWIR) |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3080F / 03 / 4 |  |  |  |  |  |  |  | P-1 Line Item Number / Title: 834010 / General Information Technology |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  | ior Yea |  | FY 2019 |  |  | FY 2020 |  |  | FY 2021 Base |  |  | FY 2021 OCO |  |  | FY 2021 Total |  |  |
| Item Number / Title [DODIC] | $\begin{aligned} & \mathrm{ID} \\ & \mathrm{CD} \end{aligned}$ | $\begin{array}{\|c\|c\|} \hline \text { MDAPI } \\ \text { MAIS } \\ \text { Coded } \end{array}$ | Unit Cost (\$ M) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | Total Cost <br> (\$M) | Unit Cost (\$ M) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | $\begin{aligned} & \hline \text { Total } \\ & \text { Cost } \\ & (\$ M) \\ & \hline \end{aligned}$ | 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 <br> (\$ M) | Unit Cost | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | Total Cost <br> (\$ M) | Unit Cost (\$ M) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost <br> (\$M) |
| EWIR Hardware |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Client PCs | A |  | - | - | - | - | - | 0.000 | 0.200 | 1 | 0.200 | 0.200 | 1 | 0.200 | - | - | - | 0.200 | 1 | 0.200 |
| Computer Server | A |  | - | - | - | - | - | - - | 0.600 | 1 | 0.600 | 0.600 | 1 | 0.600 | - | - | - | 0.600 | 1 | 0.600 |
| Data Storage System | A |  | - | - | - | - | - | - | 0.438 | 1 | 0.438 | 0.461 | 1 | 0.461 | - | - | - | 0.461 | 1 | 0.461 |
| Network Infrastructure | A |  | - | - | - | - | - | - | 0.205 | 1 | 0.205 | 0.205 | 1 | 0.205 | - | - | - | 0.205 | 1 | 0.205 |
| Tape Backup System | A |  | - | - | 0.000 | - | - | - - | - | - | - | - | - | - | - | - | - | - | - | - |
| Subtotal: EWIR Hardware |  |  | - | - | - | - | - | 0.000 | - | - | 1.443 | - | - | 1.466 | - | - | - | - | - | 1.466 |
| Total |  |  | - | - | - | - | - | 0.000 | - | - | 1.443 | - | - | 1.466 | - | - | - | - | - | 1.466 |
| Note: Subtotals or Totals in this Exhibit P-40a may not be exact or sum exactly, due to rounding. <br> Remarks: <br> N/A |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

UNCLASSIFIED

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Date: February 2020 <br> Aggregated Items Title: C2ISR Tactical Data Link |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3080F / 03 / 4 |  |  |  |  |  |  |  | P-1 Line Item Number / Title: 834010 / General Information Technology |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  | Prior Years |  |  | FY 2019 |  |  | FY 2020 |  |  | FY 2021 Base |  |  | FY 2021 OCO |  |  | FY 2021 Total |  |  |
| Item Number / Title [DODIC] | $\left.\begin{aligned} & \mathrm{ID} \\ & \mathrm{CD} \end{aligned} \right\rvert\,$ | $\begin{aligned} & \text { MDAPI } \\ & \text { MAIS } \\ & \text { code } \\ & \hline \end{aligned}$ | $\begin{array}{\|c} \text { Unit Cost } \\ (\$ M) \end{array}$ | $\begin{gathered} \text { Qty } \\ \text { (Each) } \\ \hline \end{gathered}$ | 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) | 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) |
| MIDS JTRS |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Install Kits (Active) PE 0207488 F | A |  | - | - | - | - |  | 0.000 | 0.254 | 9 | 2.290 | 0.257 | 13 | ${ }^{3.342}$ | - | - | - | 0.257 | 13 | 3.342 |
| Subtotal: MIDS JTRS |  |  | - | - | - | - |  | 0.000 | - | - | 2.290 | - | - | 3.342 | - | - | - | - | - | 3.342 |
| Other Government Support |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Other Government Support | A |  | - | - | - | - |  | 0.000 | - | - | - | - | - | - | - | - | - | - | - |  |
| Subtotal: Other Government Support |  |  | - | - | - | - |  | - 0.000 | - | - | - | - | - | - | - | - | - | - | - | - |
| Total |  |  | - | - | - | - |  | 0.000 | - | - | 2.290 | - | - | 3.342 | - | $\cdot$ | - | - | - | 3.342 |

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|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Date: February 2020 <br> Aggregated Items Title: <br> National Technical Nuclear Forensics |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3080F / 03 / 4 |  |  |  |  |  |  | P-1 Line Item Number / Title: 834010 / General Information Technology |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  | ior Yea |  | FY 2019 |  |  | FY 2020 |  |  | FY 2021 Base |  |  | FY 2021 OCO |  |  | FY 2021 Total |  |  |
| Item Number / Title [DODIC] | ID MDAP/ <br> CD MAIs <br> code  | 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) | 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) |
| Nuclear Forensics - Prompt Diagnostics |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Nuclear Forensics Prompt Diagnostics | A | - |  | - | - |  | 0.000 | - | - | 4.581 | - | - | 5.202 | - | - | - | - | - | 5.202 |
| Subtotal: Nuclear Forensics - Prompt Diagnostics |  | - |  |  |  |  | 0.000 | - | - | 4.581 | - | - | 5.202 | - | - |  | - | - | 5.202 |
| Total |  | - | - |  | - |  | - 0.000 | - | - | 4.581 | - |  | 5.202 | - |  |  | - | - | 5.202 |
| Note: Subtotals or Totals in this Exhibit P-40a may not be exact or sum exactly, due to rounding. <br> Remarks: <br> Continues efforts previously funded by OSD for Prompt Diagnostics. Procures terrestrial-based sensors and communications for prompt diagnostics, collection, analysis, and evaluation of a nuclear detonation. Funding also includes procurement of technical data and any required initial system support. Funding was moved from BPAC 834320 starting in FY20. |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

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| Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2021 Air Force ${ }^{\text {a }}$ ( ${ }^{\text {a }}$ ( |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Date: February 2020 |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3080F / 03 / 4 |  |  |  |  |  |  |  | P-1 Line Item Number / Title: <br> 834010 / General Information Technology |  |  |  |  |  |  |  | Aggregated Items Title: Distributed Training and Exercises |  |  |  |  |
|  |  |  | Prior Years |  |  | FY 2019 |  |  | FY 2020 |  |  | FY 2021 Base |  |  | FY 2021 OCO |  |  | FY 2021 Total |  |  |
| Item Number / Title [DODIC] | $\begin{aligned} & \text { ID } \\ & \text { CD } \end{aligned}$ | $\begin{aligned} & \text { MDAPI/ } \\ & \text { MAIS } \\ & \text { code } \end{aligned}$ | Unit Cost (\$M) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost (\$ M) | Unit Cost (\$ M) | $\begin{aligned} & \text { Qtyach } \end{aligned}$ | 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 <br> Cost <br> (\$ M) | Unit Cost <br> (\$M) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | Total Cost <br> (\$ M) |
| Uncategorized |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| DISTRIBUTED TRAINING AND EXERCISES PE 0207697F | A |  | - | - | - | - | - | 0.000 | - | - | 0.324 | - | - | 0.330 | - | - | - | - | - | 0.330 |
| Subtotal: Uncategorized |  |  | - | - | - | - | - | 0.000 | - | - | 0.324 | - | - | 0.330 | - | - | - | - | - | 0.330 |
| Total |  |  | - | - | - | - | - | 0.000 | - | - | 0.324 | - | - | 0.330 | - | - | - | - | - | 0.330 |

UNCLASSIFIED

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Date: February 2020 <br> Aggregated Items Title: Intel Data Applications |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3080F / 03 / 4 |  |  |  |  |  |  |  | P-1 Line Item Number / Title: <br> 834010 / General Information Technology |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  | ior Yea |  | FY 2019 |  |  | FY 2020 |  |  | FY 2021 Base |  |  | FY 2021 OCO |  |  | FY 2021 Total |  |  |
| Item Number / Title [DODIC] | $\begin{aligned} & \mathrm{ID} \\ & \mathrm{CD} \end{aligned}$ | $\begin{array}{\|l\|} \text { MDAPII } \\ \text { MAIS } \\ \text { code } \\ \hline \end{array}$ | 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 <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 (\$ M) |
| Intel Data Applications |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Intel Data Applications H/W and S/W | A |  | - | - | - | - | - | 0.000 | - | - | 5.338 | - |  | 0.344 | - | - | 5.100 | - | - | 5.444 |
| Subtotal: Intel Data Applications |  |  | - | - | - | - | - | 0.000 | - | - | 5.338 | - | - | 0.344 | - | - | 5.100 | - | - | 5.444 |
| Total |  |  | - | - | - | - | - | 0.000 | - | - | 5.338 | - | - | 0.344 | - | - | 5.100 | - | - | 5.444 |

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

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| Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2021 Air Force |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Date: February 2020 |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3080F / 03 / 4 |  |  |  |  |  |  |  | P-1 Line Item Number / Title: <br> 834010 / General Information Technology |  |  |  |  |  |  |  | Aggregated Items Title: <br> Security and Investigative Activities |  |  |  |  |
|  |  |  | Prior Years |  |  | FY 2019 |  |  | FY 2020 |  |  | FY 2021 Base |  |  | FY 2021 OCO |  |  | FY 2021 Total |  |  |
| Item Number / Title [DODIC] | $\begin{array}{\|c\|} \text { ID } \\ \mathrm{CD} \end{array}$ | $\begin{aligned} & \text { MDAP// } \\ & \text { MAIS } \\ & \text { Code } \end{aligned}$ | 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) | 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) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | $\begin{aligned} & \text { Total } \\ & \text { Cost } \\ & (\$ M) \\ & \hline \end{aligned}$ |
| Uncategorized |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| OSI OPERATIONS PE 0305128F | A |  | - | - | - |  | - | 1.692 | - | - | 1.722 | - | - | 0.450 | - | - | - | - | - | 0.450 |
| Subtotal: Uncategorized |  |  | - | - | - | - | - | 1.692 | - | - | 1.722 | - | - | 0.450 | - | - | - | - | - | 0.450 |
| Total |  |  | - | - | - | - |  | 1.692 | - | - | 1.722 | - | - | 0.450 | - | - | . | - | - | 0.450 |

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 Items: PB 2021 Air Force |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Date: February 2020 <br> Aggregated Items Title: <br> Mission Partner Environments |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3080F / 03 / 4 |  |  |  |  |  |  |  | P-1 Line Item Number / Title: <br> 834010 / General Information Technology |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  | ior Yea |  | FY 2019 |  |  | FY 2020 |  |  | FY 2021 Base |  |  | FY 2021 OCO |  |  | FY 2021 Total |  |  |
| Item Number / Title [DODIC] | $\begin{aligned} & \text { ID } \\ & \text { CD } \end{aligned}$ | MDAP/ <br> MAIS <br> Code | Unit Cost (\$ M) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost (\$ M) | $\begin{gathered} \text { Unit Cost } \\ (\$ M) \\ \hline \end{gathered}$ | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost <br> (\$ M) | Unit Cost (\$ M) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | Total Cost (\$ M) | Unit Cost (\$ M) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | 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) |
| Mission Partner Environment |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Mission Partner Environment | A |  | - | - | - | - | - | 1.873 | - | - | 1.585 | - | - | 0.478 | - | - | - | - | - | 0.478 |
| Subtotal: Mission Partner Environment |  |  | - | - | - | - | - | 1.873 | - | - | 1.585 | - | - | 0.478 | - | - | - | - | - | 0.478 |
| Total |  |  | - | - | - | - | - | 1.873 | - | - | 1.585 | - | - | 0.478 | - | - | - | - | - | 0.478 |

## Remarks:

Remarks.
This program transferred from Defense Information Systems Agency (DISA) to USAF in FY19.



 mission with technology to improve mission effectiveness and cyber security.


 software to support operations with the Mission Partners environment.

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| Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2021 Air Force |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Date: February 2020 |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity:$3080 F / 03 / 4$ |  |  |  |  |  |  |  | P-1 Line Item Number / Title: <br> 834010 / General Information Technology |  |  |  |  |  |  |  | Aggregated Items Title: Communications and Information Technology |  |  |  |  |
|  |  |  |  | ior Yea |  |  | F 2019 |  |  | Y 2020 |  |  | 2021 B |  |  | 2021 O |  |  | 2021 T |  |
| Item Number / Title [DODIC] | $\begin{aligned} & \mathrm{ID} \\ & \mathrm{CD} \end{aligned}$ | $\begin{array}{\|c\|c\|} \hline \text { MDAP/ } \\ \text { MAIS } \\ \text { Code } \end{array}$ | 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) | 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 (\$ M) |
| Uncategorized |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| New Item | A |  | - | - | - | - | - | 0.000 | - | - | 0.000 | - | - | 3.796 | - | - | 0.000 | - | - | 3.796 |
| Subtotal: Uncategorized |  |  | - | - | - | - | - | 0.000 | - | - | 0.000 | - | - | 3.796 | - | - | 0.000 | - | - | 3.796 |
| Total |  |  | - | - | - | - | - | 0.000 | - | - | 0.000 | - | - | 3.796 | - | - | 0.000 | - | - | 3.796 |

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

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|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Date: February 2020 |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3080F / 03 / 4 |  |  |  |  |  |  |  | P-1 Line Item Number / Title: <br> 834010 / General Information Technology |  |  |  |  |  |  |  | Aggregated Items Title: Tactical Data Networks Enterprise |  |  |  |  |
|  |  |  |  | ior Yea |  | FY 2019 |  |  | FY 2020 |  |  | FY 2021 Base |  |  | FY 2021 OCO |  |  | FY 2021 Total |  |  |
| Item Number / Title [DODIC] | $\begin{aligned} & \mathrm{ID} \\ & \mathrm{CD} \end{aligned}$ | $\begin{array}{\|c\|} \text { MDAPI } \\ \text { MAIS } \\ \text { code } \\ \hline \end{array}$ | Unit Cost (\$ M) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | Total Cost <br> (\$ M) | Unit Cost (\$ M) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \\ \hline \end{gathered}$ | Total Cost <br> (\$ M) | Unit Cost (\$ M) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | Total Cost <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) |
| TDL PAM |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| c. TACTICAL DATA NETWORK ENTERPRISE (PE 0604281F) | A |  | - | - | - | - | - | 6.614 | - | - | 0.179 | - | - | 2.407 | - | - | - | - | - | 2.407 |
| Subtotal: TDL PAM |  |  | - | - | - | - | - | 6.614 | - | - | 0.179 | - | - | 2.407 | - | - | - | - | - | 2.407 |
| Total |  |  | - | - | - | - | - | 6.614 | - | - | 0.179 | - | - | 2.407 | - | - | - | - | - | 2.407 |

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| Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2021 Air Force |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Date: February 2020 |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3080F / 03 / 4 |  |  |  |  |  |  |  | P-1 Line Item Number / Title: <br> 834010 / General Information Technology |  |  |  |  |  |  |  | Aggregated Items Title: Logistics Support Activities |  |  |  |  |
|  |  |  | Prior Years |  |  | FY 2019 |  |  | FY 2020 |  |  | FY 2021 Base |  |  | FY 2021 OCO |  |  | FY 2021 Total |  |  |
| Item Number / Title [DODIC] | $\begin{aligned} & \mathrm{ID} \\ & \mathrm{CD} \end{aligned}$ | $\begin{gathered} \text { MDAPI } \\ \text { MAIS } \\ \text { code } \end{gathered}$ | Unit Cost (\$M) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | Total Cost (\$ M) | Unit Cost | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | 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 Cost $\qquad$ | Unit Cost (\$ M) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | Total Cost <br> (\$M) |
| Uncategorized |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| GUNTER AIR FORCE BASE NETWORK SERVICES PE 0708012F | A |  | - | - | - | - | - | 0.000 | - | - | 1.435 | - | - | 1.491 | - | - | - | - | - | 1.491 |
| Subtotal: Uncategorized |  |  | - | - | - | - | - | 0.000 | - | - | 1.435 | - | - | 1.491 | - | - | - | - | - | 1.491 |
| Total |  |  | - | - | - | - | - | 0.000 | - | - | 1.435 | - | - | 1.491 | - | - | - | - | - | 1.491 |

## UNCLASSIFIED

| Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2021 Air Force |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Date: February 2020 |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity:$\text { 3080F / } 03 / 4$ |  |  |  |  |  |  |  | P-1 Line Item Number / Title: <br> 834010 / General Information Technology |  |  |  |  |  |  |  | Aggregated Items Title: <br> Logistics Information Technology (LOGIT) |  |  |  |  |
|  | $\begin{aligned} & \mathrm{ID} \\ & \mathrm{CD} \end{aligned}$ | MDAP/ MAIS Code | Prior Years |  |  | FY 2019 |  |  | FY 2020 |  |  | FY 2021 Base |  |  | FY 2021 OCO |  |  | FY 2021 Total |  |  |
| Item Number / Title [DODIC] |  |  | 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) |
| Uncategorized |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| New Item | A |  | - | - | - | - | - | 0.000 | - | - | 0.000 | - | - | 0.391 | - | - | 0.000 | - | - | 0.391 |
| Subtotal: Uncategorized |  |  | - | - | - | - | - | 0.000 | - | - | 0.000 | - | - | 0.391 | - | - | 0.000 | - | - | 0.391 |
| Total |  |  | - | - | - | - | - | 0.000 | - | - | 0.000 | - | - | 0.391 | - | - | 0.000 | - | - | 0.391 |

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 Items: PB 2021 Air Force |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Date: February 2020 |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3080F / 03/4 |  |  |  |  |  |  |  | P-1 Line Item Number / Title: 834010 / General Information Technology |  |  |  |  |  |  |  | Aggregated Items Title: AF LVC Operational Training (LVC-OT) |  |  |  |  |
|  |  |  |  | ior Yea |  | FY 2019 |  |  | FY 2020 |  |  | FY 2021 Base |  |  | FY 2021 OCO |  |  | FY 2021 Total |  |  |
| Item Number / Title [DODIC] | $\begin{array}{\|l\|} \text { ID } \\ \text { CD } \end{array}$ | $\begin{array}{\|l\|} \text { MDAP/ } \\ \text { MAIS } \\ \text { Code } \end{array}$ | 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 <br> 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 <br> Cost <br> (\$ M) | Unit Cost (\$ M) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost <br> (\$ M) |
| Uncategorized |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| SIMULATORS COMMON ARCHITECTURE REQUIREMENTS AND STANDARDS | A |  | - | - | - | - | - | 0.000 | - | - | 4.820 | - | - | 11.986 | - | - | - | - | - | 11.986 |
| Subtotal: Uncategorized |  |  | - | - | - | - | - | 0.000 | - | - | 4.820 | - | - | 11.986 | - | - | - | - | - | 11.986 |
| Total |  |  | - | - | - | - | - | 0.000 | - | $\cdot$ | 4.820 | - | - | 11.986 | - | - | - | $\cdot$ | - | 11.986 |

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| Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2021 Air Force |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Date: February 2020 <br> Aggregated Items Title: <br> Recruit Training Units |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3080F / 03 / 4 |  |  |  |  |  |  |  | P-1 Line Item Number / Title: 834010 / General Information Technology |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  | ior Yea |  | FY 2019 |  |  | FY 2020 |  |  | FY 2021 Base |  |  | FY 2021 OCO |  |  | FY 2021 Total |  |  |
| Item Number / Title [DODIC] | $\begin{array}{\|c\|} \text { ID } \\ \text { CD } \end{array}$ | $\begin{aligned} & \text { MDAP/ } \\ & \text { MAIS } \\ & \text { Code } \end{aligned}$ | 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 <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 <br> Cost <br> (\$ M) | Unit Cost $(\$ M)$ | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | Total Cost <br> (\$ M) |
| Uncategorized |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| BMT Surveillance System PE 0804711F | A |  | - | - | - | - | - | 0.799 | - | - | 0.816 | - | - | 0.629 | - | - | - | - | - | 0.629 |
| Subtotal: Uncategorized |  |  | - | - | - | - | - | 0.799 | - | - | 0.816 | - | - | 0.629 | - | - | - | - | - | 0.629 |
| Total |  |  | - | - | - | - | - | 0.799 | - | - | 0.816 | - | - | 0.629 | - | - | - | - | - | 0.629 |

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

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| Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2021 Air Force |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Date: February 2020 <br> Aggregated Items Title: <br> Service Academies |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3080F / 03 / 4 |  |  |  |  |  |  |  | P-1 Line Item Number / Title: 834010 / General Information Technology |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  | ior Yea |  | FY 2019 |  |  | FY 2020 |  |  | FY 2021 Base |  |  | FY 2021 OCO |  |  | FY 2021 Total |  |  |
| Item Number / Title [DODIC] | $\begin{aligned} & \mathrm{ID} \\ & \mathrm{CD} \end{aligned}$ | $\begin{aligned} & \text { MDAP/ } \\ & \text { MAIS } \\ & \text { Code } \end{aligned}$ | 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) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | 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) |
| Uncategorized |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| SERVICE ACADEMIES USAFA PE 0804721F | A |  | - | - | - | - | - | 0.000 | 0.500 | 1 | 0.500 | 1.498 | 1 | 1.498 | - | - | - | 1.498 | 1 | 1.498 |
| Subtotal: Uncategorized |  |  | - | - | - | - | - | 0.000 | - | - | 0.500 | - | - | 1.498 | - | - | - | - | - | 1.498 |
| Total |  |  | - | - | - | - | - | 0.000 | - | - | 0.500 | - | - | 1.498 | - | - | - | - | - | 1.498 |

UNCLASSIFIED

| Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2021 Air Force |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Date: February 2020 <br> Aggregated Items Title: General Skill Training |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3080F / 03 / 4 |  |  |  |  |  |  |  | P-1 Line Item Number / Title: 834010 / General Information Technology |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  | ior Year |  | FY 2019 |  |  | FY 2020 |  |  | FY 2021 Base |  |  | FY 2021 OCO |  |  | FY 2021 Total |  |  |
| Item Number / Title [DODIC] | $\begin{aligned} & \mathrm{ID} \\ & \mathrm{CD} \end{aligned}$ | $\begin{gathered} \text { MDAP/ } \\ \text { MAIS } \\ \text { Code } \end{gathered}$ | 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) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | Total Cost <br> (\$ M) | Unit Cost (\$ M) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | Total Cost <br> (\$ M) | Unit Cost | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | Total Cost <br> (\$ M) |
| Uncategorized |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| GEN SKILL TRAINING PE 0804731 F | A |  | - | - | - | - |  | 0.000 | - | - | 0.335 | - | - | 0.350 | - | - | - | - | - | 0.350 |
| TECH TNG MANAGEMENT SYSTEM | A |  | - | - | - | - |  | 0.000 | - | - | 0.338 | - |  | 0.334 | - | - | - | - | - | 0.334 |
| Subtotal: Uncategoriz |  |  | $\cdot$ | - | - | - |  | 0.000 | - | - | 0.673 | - | - | 0.684 | - | - | - | - | - | 0.684 |
| Total |  |  | - | - | - | - |  | - 0.000 | - | - | 0.673 | - | - | 0.684 | - | - | - | - | - | 0.684 |
| Note: Subtotals or Totals in this Exhibit P-40a may not be exact or sum exactly, due to rounding. <br> Remarks: <br> FYDP baseline data for OAC 64 ONLY. |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

UNCLASSIFIED

| Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2021 Air Force |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Date: February 2020 |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3080F / 03 / 4 |  |  |  |  |  |  |  | P-1 Line Item Number / Title: <br> 834010 / General Information Technology |  |  |  |  |  |  |  | Aggregated Items Title: Professional Military Education |  |  |  |  |
|  |  |  | Prior Years |  |  | FY 2019 |  |  | FY 2020 |  |  | FY 2021 Base |  |  | FY 2021 OCO |  |  | FY 2021 Total |  |  |
| Item Number / Title [DODIC] | $\begin{aligned} & \text { ID } \\ & \text { CD } \end{aligned}$ | $\begin{array}{\|l\|} \text { MDAP/ } \\ \text { MAIS } \\ \text { Code } \end{array}$ | 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 $(\$ M)$ | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | 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 $\qquad$ | Unit Cost (\$ M) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | Total Cost <br> (\$M) |
| Professional Military Education |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Professional Military Education PE 0804751F | A |  | - | - | - | - | - | 0.964 | - | - | 0.981 | - | - | 0.398 | - | - | - | - | - | 0.398 |
| Subtotal: Professional Military Education |  |  | - | - | - | - | - | 0.964 | - | - | 0.981 | - | - | 0.398 | - | - | - | - | - | 0.398 |
| Total |  |  | - | - | - | - | - | 0.964 | - | - | 0.981 | - | - | 0.398 | - | - | . | - | - | 0.398 |

UNCLASSIFIED

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Date: February 2020 <br> Aggregated Items Title: <br> Other Professional Education |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity:$3080 \mathrm{~F} / 03 / 4$ |  |  |  |  |  |  |  | P-1 Line Item Number / Title: 834010 / General Information Technology |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  | ior Yea |  | FY 2019 |  |  | FY 2020 |  |  | FY 2021 Base |  |  | FY 2021 OCO |  |  | FY 2021 Total |  |  |
| Item Number / Title [DODIC] | $\begin{aligned} & \mathrm{ID} \\ & \mathrm{CD} \end{aligned}$ | $\begin{array}{\|c} \text { MDAPII } \\ \text { MAIS } \\ \text { code } \\ \hline \end{array}$ | $\underset{\substack{\text { Unit Cost } \\(\$ M)}}{ }$ <br> (\$ 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 <br> (\$ M) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | Total Cost <br> (\$ M) | Unit Cost <br> (\$M) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | $\begin{aligned} & \text { Total } \\ & \text { Cost } \\ & (\$ M) \\ & \hline \end{aligned}$ | Unit Cost (\$ M) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | Total Cost <br> (\$ M) | Unit Cost (\$ M) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | $\begin{aligned} & \text { Total } \\ & \text { Cost } \end{aligned}$ $(\$ M)$ |
| Other Professional Education |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| OTHER PROFESSIONAL EDUCATION PE 0804752F | A |  | - | - | - | - | - | 0.467 | - | - | 0.475 | - | - | 0.482 | - | - | - | - | - | 0.482 |
| Subtotal: Other Professional Education |  |  | - | - | - | - | - | 0.467 | - | - | 0.475 | - | - | 0.482 | - | - | - | - | - | 0.482 |
| Total |  |  | - | - | - | - | - | 0.467 | - | - | 0.475 | - | - | 0.482 | - | - | - | - | - | 0.482 |

UNCLASSIFIED

| Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2021 Air Force |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Date: February 2020 <br> Aggregated Items Title: AF A1 Systems |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3080F / 03 / 4 |  |  |  |  |  |  |  | P-1 Line Item Number / Title: <br> 834010 / General Information Technology |  |  |  |  |  |  |  |  |  |  |  |  |
|  | $\begin{aligned} & \text { ID } \\ & \text { CD } \end{aligned}$ | $\begin{gathered} \text { MDAP/ } \\ \text { MAIS } \\ \text { Code } \end{gathered}$ | Prior Years |  |  | FY 2019 |  |  | FY 2020 |  |  | FY 2021 Base |  |  | FY 2021 OCO |  |  | FY 2021 Total |  |  |
| Item Number / <br> Title [DODIC] |  |  | Unit Cost (\$ M) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost (\$ M) | 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 (\$ M) | Unit Cost (\$ M) | Qty (Each) | Total Cost <br> (\$ M) | Unit Cost (\$ M) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost (\$ M) |
| Uncategorized |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| PERSONNEL SERVICE DELIVERY PE 0901299F | A |  | - | - | - | - | - | 0.000 | - | - | 0.000 | - | - | 0.000 | - | - | - | - | - | 0.000 |
| MILITARY <br> PERSONNEL DATA <br> SYSTEM (MILPDS) | A |  | - | - | - | - | - | 0.254 | - | - | 1.112 | - | - | 0.000 | - | - | - | - | - | 0.000 |
| REGIONALIZATION OF CIV PERS SUPPORT | A |  | - | - | - | - | - | 0.000 | - | - | 0.000 | - | - | 0.000 | - | - | - | - | - | 0.000 |
| AIR FORCE PERSONNEL CENTER | A |  | - | - | - | - | - | 0.000 | - | - | 0.000 | - | - | 0.000 | - | - | - | - | - | 0.000 |
| Air Force Personnel Operations Agency (AFPOA) Network Infrastructure | A |  | - | - | - | - | - | 1.452 | - | - | 1.987 | - | - | 0.000 | - | - | - | - | - | 0.000 |
| Subtotal: Uncategorized |  |  | - | - | - | - | - | 1.706 | - | - | 3.099 | - | - | 0.000 | - | - | - | - | - | 0.000 |
| Total |  |  | - | - | - | - | - | 1.706 | - | - | 3.099 | - | - | 0.000 | - | - | - | - | - | 0.000 |

Note: Subtotals or Totals in this Exhibit P-40a may not be exact or sum exactly, due to rounding.
Remarks:
FY19 funding was reduced due to under execution. FY21 funding is no longer required due to the AFPOA Data Center closure and funds were realigned to 3400 funds

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| Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2021 Air Force |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Date: February 2020 |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3080F / 03 / 4 |  |  |  |  |  |  |  | P-1 Line Item Number / Title: 834010 / General Information Technology |  |  |  |  |  |  |  | Aggregated Items Title: Contracting Information Technology System |  |  |  |  |
|  |  |  | Prior Years |  |  | FY 2019 |  |  | FY 2020 |  |  | FY 2021 Base |  |  | FY 2021 OCO |  |  | FY 2021 Total |  |  |
| Item Number / Title [DODIC] | $\begin{aligned} & \mathrm{ID} \\ & \mathrm{CD} \end{aligned}$ | $\begin{aligned} & \text { MDAPI } \\ & \text { MAIS } \\ & \text { code } \end{aligned}$ | Unit Cost (\$ M) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | Total Cost <br> (\$M) | Unit Cost (\$ M) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | $\begin{aligned} & \hline \text { Total } \\ & \text { Cost } \\ & (\$ M) \\ & \hline \end{aligned}$ | Unit Cost (\$ M) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | Total Cost <br> (\$ M) | Unit Cost (\$ M) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | 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) |
| CON-IT |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Software Licenses | A |  | - | - | - | 5.000 |  | 1 1 5.000 | - | - | - | 0.000 | 1 | 0.000 | - | - | - | 0.000 |  | 0.000 |
| Subtotal: CON-IT |  |  | - | - | - | - | - | 5.000 | - | - | - | - | - | 0.000 | - | - | - | - | - | 0.000 |
| Total |  |  | - | - | - | - | - | 5.000 | - | - | - | - | - | 0.000 | - | - | - | - | - | 0.000 |

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

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Note: Subtotals or Totals in this Exhibit P-40a may not be exact or sum exactly, due to rounding.
Appropriation / Budget Activity / Budget Sub Activity:
3080F: Other Procurement, Air Force / BA 03: Electronics and Telecommunications
Equip / BSA 4: Spcl Comm-Electronics Projects

## P-1 Line Item Number / Title:

834040 / Af Global Command \& Control Sys

| ID Code (A=Service Ready, B=Not Service Ready): A | Program Elements for Code B Items: N/A | Other Related Program Elements: 0303150F |
| :--- | :--- | :--- | :--- |

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

| Resource Summary | Prior <br> Years | FY 2019 | FY 2020 | $\text { FY } 2021$ Base | $\begin{gathered} \text { FY } 2021 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \text { FY } 2021 \\ \text { Total } \end{gathered}$ | FY 2022 | FY 2023 | FY 2024 | FY 2025 | To Complete | Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Procurement Quantity (Units in Each) | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Cost (\$ in Millions) | - | 5.320 | 2.756 | 2.602 | - | 2.602 | 2.611 | 2.662 | 2.716 | 5.147 | - | 23.814 |
| Less PY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Net Procurement (P-1) (\$ in Millions) | - | 5.320 | 2.756 | 2.602 | - | 2.602 | 2.611 | 2.662 | 2.716 | 5.147 | - | 23.814 |
| Plus CY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Total Obligation Authority (\$ in Millions) | - | 5.320 | 2.756 | 2.602 | - | 2.602 | 2.611 | 2.662 | 2.716 | 5.147 | - | 23.814 |
| (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:

GLOBAL COMMAND AND CONTROL SYSTEM AIR FORCE (GCCS-AF): The GCCS-AF program provides the common AF infrastructure hardware and software necessary to pass AF command and control (C2) data among commands, their components, and the joint GCCS. This program procures GCCS components which include, but are not limited to, items such as servers, commercial-off-the-shelf (COTS) software, and associated peripherals to provide users with the full suite of joint baseline capability (including the common operating picture and Integrated Imagery \& Intelligence). GCCS-AF is integrated at the following locations to establish initial and full joint connectivity and operational capability across the spectrum of intelligence, operations, war planning, manpower, and logistics: AF-supported war-fighting commands, AF critical sites, Headquarters United States Air Force, Major Command headquarters (MAJCOM), numbered air forces, wings, Air National Guard (ANG) bases, Air Force Reserve (AFR) bases, and remote sites. Each site will comply with current Air Force and Department of Defense (DoD) network initiatives by employing a standardized interface among AF base-level classified C2 networks, AF baselevel network control centers, and the joint Defense Information Systems Agency (DISA) Secret Internet Protocol Router Network (SIPRNET). This program provides a flexible open system and distributed C2 architecture necessary to support the joint GCCS. GCCS supports AF operations by installing and upgrading a site's classified C2 system through extensive use of COTS technology that adheres to AF command and control, communications, and computer architectures and standards.

Funding for the exhibit contained in PE 0303150F: GLOBAL COMMAND AND CONTROL SYSTEM
The FY 21 funding request was reduced by $\$ 1.719$ million to account for the availability of prior year execution balances.

## Justification:

GLOBAL COMMAND AND CONTROL SYSTEM AIR FORCE (GCCS-AF): FY21 procurement funding procures various types and quantities of hardware and software in support of installation and unit mission requirements for Air Force personnel. GCCS-AF will procure and install GCCS-Joint (GCCS-J) version 6.0 hardware and software (government-off-the-shelf and commercial-off-the-shelf) at warfighter Combatant Command (CCMD) and MAJCOM locations, providing a full spectrum of command, control, war planning, logistics, and intelligence capability from strategic to unit level operations with total joint service connectivity. The GCCS architecture supports functional users on each base and specifically incorporates war planning functions into GCCS. These fielding activities are consistent with the AF's Air Expeditionary Force (AEF) C2 structure and integration with DoD's emerging next generation joint C2 enabler.

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Exhibit P-40, Budget Line Item Justification: PB 2021 Air Force
Date: February 2020
Appropriation / Budget Activity / Budget Sub Activity:
3080F: Other Procurement, Air Force / BA 03: Electronics and Telecommunications

## P-1 Line Item Number / Title: <br> 834050 / Battlefield Airborne Control Node (BACN)

 Equip / BSA 4: Spcl Comm-Electronics Projects| ID Code (A=Service Ready, B=Not Service Ready) |  |  | Program Ele | nts for Cod | B Items: |  |  | Other Relat | Program El | ents: N/A |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Line Item MDAP/MAIS Code: N/A |  |  |  |  |  |  |  |  |  |  |  |  |
| Resource Summary | Prior <br> Years | FY 2019 | FY 2020 | $\begin{gathered} \text { FY } 2021 \\ \text { Base } \end{gathered}$ | $\begin{gathered} \text { FY } 2021 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \text { FY } 2021 \\ \text { Total } \end{gathered}$ | FY 2022 | FY 2023 | FY 2024 | FY 2025 | To Complete | Total |
| Procurement Quantity (Units in Each) | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Cost (\$ in Millions) | - | 0.000 | 48.478 | 0.000 | - | 0.000 | 0.000 | 50.281 | 0.000 | 113.838 | - | 212.597 |
| Less PY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Net Procurement (P-1) (\$ in Millions) | - | 0.000 | 48.478 | 0.000 | - | 0.000 | 0.000 | 50.281 | 0.000 | 113.838 | - | 212.597 |
| Plus CY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Total Obligation Authority (\$ in Millions) | - | 0.000 | 48.478 | 0.000 | - | 0.000 | 0.000 | 50.281 | 0.000 | 113.838 | - | 212.597 |
| (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:

 translation, Tactical Data Link (TDL) gateway and TDL relay functions for beyond-line-of-sight (BLOS) data communications.

This BACN payload is controlled by ground stations that are comprised of multiple support elements: a Payload Control Element - Launch (PCE-L) and Payload Control Element - Mission (PCE-M), and a Rapidly Deployable Payload Control Element (RD-PCE) that provides the same PCE-L and PCE-M functionality in rapidly deployable configuration, and any additional equipment required to support BACN Payload.

The E-11As require Rapidly Deployable Aircraft Kits that include the minimum number of maintenance equipment and spares required for the aircraft to operate anywhere around the globe for a minimum of 30 days.

## Justification:

This BACN payload is controlled by ground stations that are comprised of two support elements: a Payload Control Element - Launch (PCE-L) and Payload Control Element - Mission (PCE-M). The Rapidly Deployable Payload Control Element (RD-PCE) will provide the same PCE-L and PCE-M functionality in rapidly deployable configuration.

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

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Exhibit P-40, Budget Line Item Justification: PB 2021 Air Force
Date: February 2020

## Appropriation / Budget Activity / Budget Sub Activity: <br> 3080F: Other Procurement, Air Force / BA 03: Electronics and Telecommunications

P-1 Line Item Number / Title:
834070 / Mobility Command And Control Equip / BSA 4: Spcl Comm-Electronics Projects

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

Line Item MDAP/MAIS Code: N/A

| Resource Summary | Prior <br> Years | FY 2019 | FY 2020 | $\text { FY } 2021$ Base | $\begin{gathered} \text { FY } 2021 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \text { FY } 2021 \\ \text { Total } \end{gathered}$ | FY 2022 | FY 2023 | FY 2024 | FY 2025 | To Complete | Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Procurement Quantity (Units in Each) | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Cost (\$ in Millions) | - | 10.192 | 21.186 | 10.541 | - | 10.541 | 10.735 | 10.922 | 11.119 | 11.322 | - | 86.017 |
| Less PY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Net Procurement (P-1) (\$ in Millions) | - | 10.192 | 21.186 | 10.541 | - | 10.541 | 10.735 | 10.922 | 11.119 | 11.322 | - | 86.017 |
| Plus CY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Total Obligation Authority (\$ in Millions) | - | 10.192 | 21.186 | 10.541 | - | 10.541 | 10.735 | 10.922 | 11.119 | 11.322 | - | 86.017 |
| (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:

PE 0401130F C-17 Aircraft (IF) - P-40A
Roll-On Conference Capsule (ROCC), when flown with the Steel Eagle module, enables US Government senior leaders and travel staff to work, communicate, and rest during long range missions into threat areas, with the protection of the C-17A Globemaster III's defensive systems capability. After ROCC airworthiness is determined during the RDT\&E phase, the first ROCC capsule will be converted to the production configuration and delivered in FY21. The second ROCC capsule will be manufactured with delivery in FY22 along with an integrated logistics support package, heavy maintenance bench equipment, training services, and three years of contractor operation and maintenance support (CO\&MS). Funding provided for ROCC can be used for program management administration. Funding for this exhibit contained in PE 0401130F.

PE 0401840F AMC Command and Control System - P-40A
GLOBAL MOBILITY COMMAND AND CONTROL (C2) ARCHITECTURE AIR MOBILITY COMMAND (AMC): The AMC C2 architecture is an integrated, command-wide program that supports US Air Force airlift/air refueling missions around the globe with centralized control/decentralized execution. To execute America's Global Reach mission, Air Mobility Command's 618th Air Operations Center (AOC) plans, schedules, and directs a fleet of more than 1,100 mobility aircraft. The 618 th AOC operates combat delivery, strategic airlift, air refueling, and aeromedical evacuation operations around the world. Funding for this exhibit is contained in program element (PE) 0401840F.

MOBILITY AIR FORCE (MAF) COMMAND AND CONTROL (C2) INFRASTRUCTURE: Provides base wired/wireless infrastructure equipment supporting AMC's 618 th AOC and AMC's 11 bases to assure connectivity to AMC's command and control (C2) systems and to ensure they remain operational at AMC bases and operating locations. MAF C2 Infrastructure ensures connectivity with critical Air Force systems such as the Information Transport System (ITS), Global Combat Support System (GCSS) and the Global Decision Support System (GDSS); AMC's C2 systems such as the Consolidated Air Mobility Planning System (CAMPS) and Advanced Computer Flight Planning (ACFP) system and the infrastructure for Land Mobile Radio (LMR) systems across AMC providing intra-base command and control for base security, emergency management, flightline operations/maintenance, and crash response. This program element may include necessary civilian pay expenses required to manage, execute, and deliver MAF C2 capabilities. The use of such program funds would be in addition to the civilian pay expenses budgeted in program elements 0605826F, 0605827F, 0605828F, 0605829F, 0605830F, 0605831F, 0605832F, 0605898F, and 0605833F.

| Exhibit P-40, Budget Line Item Justification: PB 2021 Air Force |  |  |  |  |  |  |  | Date: February 2020 |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: <br> 3080F: Other Procurement, Air Force / BA 03: Electronics and Telecommunications Equip / BSA 4: Spcl Comm-Electronics Projects |  |  |  |  |  | P-1 Line Item Number / Title: <br> 834070 / Mobility Command And Control |  |  |  |  |
| 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 2019 | FY 2020 | FY 2021 Base | FY 2021 OCO | FY 2021 Total |
| $\begin{aligned} & \text { Exhibit } \\ & \text { Type } \end{aligned}$ | Title* | Subexhibits | ID | $\begin{gathered} \hline \text { MDAPI } \\ \text { MAIS } \\ \text { Code } \end{gathered}$ | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost (Each) (\$ M) (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) |
| P-40a | C-17 Aircraft (IF) |  |  |  | - 1- | - 10.000 | - /10.817 | - 10.000 | - 1- | - 10.000 |
| P-40a | AMC Command and Control System |  |  |  | - 1 - | - / 10.192 | - /10.369 | - / 10.541 | - 1 - | / 10.541 |
| P-40 | Total Gross/Weapon System Cost |  |  |  | 1. | - 110.192 | - 121.186 | - / 10.541 | - 1. | - / 10.541 |
| *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. Title represents the P-40a Title when only the P-40a Summary/Total is shown. |  |  |  |  |  |  |  |  |  |  |
| Note: Totals in this Exhibit P-40 set may not be exact or sum exactly due to rounding. |  |  |  |  |  |  |  |  |  |  |
| Justification: <br> PE 0401840F AMC Command and Control System - P-40A |  |  |  |  |  |  |  |  |  |  |
| MOBILITY AIR FORCE (MAF) COMMAND AND CONTROL (C2) INFRASTRUCTURE: FY21 funding continues procurement of wired and wireless base network infrastructure equipment to include cabling, routers, bridges, hubs, repeaters and switches to ensure information technology remains current and interoperability with AMC C2 systems is maintained to meet the needs of the warfighter and AMC's worldwide mobility mission. |  |  |  |  |  |  |  |  |  |  |
| PE 0401130F C-17 Aircraft (IF) - P-40A <br> Roll-On Conference Capsule (ROCC): No FY21 funding required. FY20 funding converts the first article ROCC to a production unit, then a second ROCC is being manufactured to deliver in FY22 with Logistics Support Package, bench equipment and training. |  |  |  |  |  |  |  |  |  |  |

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| Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2021 Air Force |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Date: February 2020 <br> Aggregated Items Title: <br> C-17 Aircraft (IF) |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3080F / 03 / 4 |  |  |  |  |  |  |  | P-1 Line Item Number / Title: <br> 834070 / Mobility Command And Control |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  | ior Yea |  | FY 2019 |  |  | FY 2020 |  |  | FY 2021 Base |  |  | FY 2021 OCO |  |  | FY 2021 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) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | 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) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | Total Cost <br> (\$ M) | Unit Cost (\$M) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | Total Cost <br> (\$ M) | Unit Cost (\$M) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | $\begin{aligned} & \text { Total } \\ & \text { Cost } \\ & (\$ M) \\ & \hline \end{aligned}$ |
| Roll-On Conference Capsule (ROCC) |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| ROCC | A |  | - | - | - | - | - | 0.000 | 10.817 | 1 | 10.817 | - | - | 0.000 | - | - | - | - | - | 0.000 |
| Subtotal: Roll-On Conference Capsule (ROCC) |  |  | - | - | - | - |  | 0.000 | - | - | 10.817 | - | - | 0.000 | - | - |  | - | - | 0.000 |
| Total |  |  | - | - | - | - | - | 0.000 | - | - | 10.817 | - | - | 0.000 | - | - | - | - | - | 0.000 |

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

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| Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2021 Air Force |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Date: February 2020 |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3080F / 03 / 4 |  |  |  |  |  |  |  | P-1 Line Item Number / Title: <br> 834070 / Mobility Command And Control |  |  |  |  |  |  |  | Aggregated Items Title: AMC Command and Control System |  |  |  |  |
|  |  |  |  | ior Yea |  | FY 2019 |  |  | FY 2020 |  |  | FY 2021 Base |  |  | FY 2021 OCO |  |  | FY 2021 Total |  |  |
| Item Number / Title [DODIC] | $\left\|\begin{array}{l\|} \mathrm{ID} \\ \mathrm{CD} \end{array}\right\|$ | $\begin{array}{\|c\|c\|} \text { MDAPI } \\ \text { MAIS } \\ \text { Code } \end{array}$ | 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) | Unit Cost (\$ M) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | Total Cost (\$ M) |
| Uncategorized |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| WING LOCAL AREA NETWORK (LAN) Network Infrastructure | A |  | - | - | - | 10.192 | 1 | 10.192 | - | - | 10.369 | - | - | 10.541 | - | - | - | - | - | 10.541 |
| Subtotal: Uncategorized |  |  | - | - | - | - | - | 10.192 | - | - | 10.369 | - | - | 10.541 | - | - | - | - | - | 10.541 |
| Total |  |  | - | - | - | - | - | 10.192 | - | - | 10.369 | - | - | 10.541 | - | - | - | - | - | 10.541 |

## Appropriation / Budget Activity / Budget Sub Activity:

3080F: Other Procurement, Air Force / BA 03: Electronics and Telecommunications Equip / BSA 4: Spcl Comm-Electronics Projects

| ID Code (A=Service Ready, B=Not Service Ready): A |  |  | Program Elements for Code B Items: 0207589F |  |  |  |  | Other Related Program Elements: 0207522F, 0207588F, 0207589F, 0603287F, 0604287F |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Line Item MDAP/MAIS Code: N/A |  |  |  |  |  |  |  |  |  |  |  |  |
| Resource Summary | Prior <br> Years | FY 2019 | FY 2020 | $\text { FY } 2021$ Base | $\begin{gathered} \text { FY } 2021 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \text { FY } 2021 \\ \text { Total } \end{gathered}$ | FY 2022 | FY 2023 | FY 2024 | FY 2025 | To Complete | Total |
| Procurement Quantity (Units in Each) | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Cost (\$ in Millions) | 725.506 | 101.660 | 297.280 | 96.277 | 56.496 | 152.773 | 117.191 | 122.525 | 113.501 | 122.318 | - | 1,752.754 |
| Less PY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Net Procurement (P-1) (\$ in Millions) | 725.506 | 101.660 | 297.280 | 96.277 | 56.496 | 152.773 | 117.191 | 122.525 | 113.501 | 122.318 | - | 1,752.754 |
| Plus CY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Total Obligation Authority (\$ in Millions) | 725.506 | 101.660 | 297.280 | 96.277 | 56.496 | 152.773 | 117.191 | 122.525 | 113.501 | 122.318 | - | 1,752.754 |
| (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:

PE 0101122F Air-Launched Cruise Missile (ALCM) - P-40A
 required for nuclear warhead storage locations.

PE 0101213F Minuteman Squadrons - P-40A
 for nuclear warhead storage locations.

PE 0207522F Airbase Air Defense Systems (ABADS) - P-40A

 utilize rapid acquisition authorities and early prototyping initiatives to field advanced technologies to stay ahead of the threat as required.
This program includes activities that were formally funded in PE 27589F WSC 834130 for FY 2017 to FY 2020.
PE 0207588F Air Base Ground Defense - P-40A
Air Base Ground Defense (ABGD) will procure Tactical Automated Security Systems (TASS) and other tacticalexpeditionary equipment that is required to provide robust force protection capabilities worldwide; fight-line security, aircraft, intlligence, surveillance, and reconnaissance assets, critical infrastructure, sustained sortie generation and air operations, advanced technology force multipliers to include: night vision and thermal imagery equipment, counter sniper/battery capabilities, ground weapons, target acquisition radar, inter operable tactical communications, [required C3 and protective standoff equipment for] wheeled
 (TIM) and associated integration and interoperability efforts.
 Equip / BSA 4: Spcl Comm-Electronics Projects

| ID Code (A=Service Ready, B=Not Service Ready): A |  | Program Elements for Code B Items: 0207589F |  |  |  |  | Other Related Program Elements: 0207522F, 0207588F, 0207589F, 0603287F, 0604287F |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Line Item MDAP/MAIS Code: N/A |  |  |  |  |  |  |  |  |  |  |
| Exhibits Schedule |  |  |  |  | Prior Years | FY 2019 | FY 2020 | FY 2021 Base | FY 2021 OCO | FY 2021 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 | Air-Launched Cruise Missile (ALCM) |  |  |  | - 1 | - 11.775 | - 11.806 | - 10.000 | - 1 | - 10.000 |
| P-40a | Minuteman Squadrons |  |  |  | 1 | - 10.758 | - 10.772 | - 10.000 | - 1 - | - 10.000 |
| P-40a | Airbase Air Defense Systems (ABADS) |  |  |  | 1 | - 10.000 | - 10.000 | - 19.108 | - /18.922 | - 128.030 |
| P-40a | Air Base Ground Defense |  |  |  | - 1 - | - / 43.787 | - /109.018 | - / 47.568 | - 137.574 | - 185.142 |
| P-40a | Base Physical Security Systems |  |  |  | - 1725.506 | - 155.340 | - 199.781 | - 10.000 | - 10.000 | - 10.000 |
| P-3a | 1 / IBDSS-2 (Capability Improvement) |  | A |  | 1 | - 1 | - 185.903 | - 139.601 | - 10.000 | - 139.601 |
| P-40 Total Gross/Weapon System Cost |  |  |  |  | - 1725.506 | - / 101.660 | - 1297.280 | - 196.277 | - 156.496 | - /152.773 |
| Exhibits Schedule |  |  |  |  | FY 2022 | FY 2023 | FY 2024 | FY 2025 | To Complete | 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 | Air-Launched Cruise Missile (ALCM) |  |  |  | - 1 - | - 1 | - 1 | - 1 | - 1 - | - 1 - |
| P-40a | Minuteman Squadrons |  |  |  | - 1 | 1 | 1 | - 1 | - 1 | 1 |
| P-40a | Airbase Air Defense Systems (ABADS) |  |  |  | - 1 | 1 | 1 | 1 | - 1 | 1 |
| P-40a | Air Base Ground Defense |  |  |  | - 1 - | - 1 - | - 1 - | 1 - | - 1 - | - 1 - |
| P-40a | Base Physical Security Systems |  |  |  | - 10.000 | - /46.629 | - / 52.524 | - /60.602 | - 10.000 | - /1,040.382 |
| P-3a | 1 / IBDSS-2 (Capability Improvement) |  | A |  | - / 50.711 | - 14.966 | - 10.000 | 1 | - 1 | - /181.181 |
| P-40 | Total Gross/Weapon System Cost |  |  |  | - / 117.191 | - /122.525 | - / 113.501 | - $/ 122.318$ | - 1 - | - /1,752.754 |

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

## Justification:

PE 0207522F Airbase Air Defense Systems (ABADS) - P-40A


 support of Joint and Air Force urgent operational and emerging operational needs.

New PE 0207522F AIRBASE AIR DEFENSE SYSTEMS (ABADS)
PE 0207588F Air Base Ground Defense - P-40A





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| Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2021 Air Force $\quad$ D |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Date: February 2020 |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3080F / 03/4 |  |  |  |  |  |  |  | P-1 Line Item Number / Title: 834130 / Air Force Physical Security System |  |  |  |  |  |  |  | Aggregated Items Title: <br> Air-Launched Cruise Missile (ALCM) |  |  |  |  |
|  |  |  | Prior Years |  |  | FY 2019 |  |  | FY 2020 |  |  | FY 2021 Base |  |  | FY 2021 OCO |  |  | FY 2021 Total |  |  |
| Item Number / Title [DODIC] | $\begin{aligned} & \mathrm{ID} \\ & \mathrm{CD} \end{aligned}$ | $\begin{gathered} \text { MDAPI } \\ \text { MAIS } \\ \text { code } \end{gathered}$ | Unit Cost (\$ M) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | Total Cost (\$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) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | Total Cost <br> (\$ M) | Unit Cost (\$M) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost $\qquad$ | Unit Cost <br> (\$M) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost <br> (\$M) |
| Uncategorized |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AIR LAUNCHED CRUISE MISSILE (ALCM) SECURITY SYSTEMS | A |  | - | - | - | - | - | 1.775 | - | - | 1.806 | - | - | 0.000 | - | - | - | - | - | 0.000 |
| Subtotal: Uncategorized |  |  | $\cdot$ | - | - | - | - | 1.775 | - | - | 1.806 | - | - | 0.000 | - | - | - | - | - | 0.000 |
| Total |  |  | - | - | - | - | - | - 1.775 | - | - | 1.806 | - | - | 0.000 | - | . | . | - | - | 0.000 |

UNCLASSIFIED

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Date: February 2020 <br> Aggregated Items Title: Minuteman Squadrons |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3080F / 03 / 4 |  |  |  |  |  |  |  | P-1 Line Item Number / Title: 834130 / Air Force Physical Security System |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  | ior Yea |  | FY 2019 |  |  | FY 2020 |  |  | FY 2021 Base |  |  | FY 2021 OCO |  |  | FY 2021 Total |  |  |
| Item Number / Title [DODIC] | $\begin{aligned} & \mathrm{ID} \\ & \mathrm{CD} \end{aligned}$ | $\begin{array}{\|l} \text { MDAP/ } \\ \text { MAIS } \\ \text { Code } \end{array}$ | 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) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | 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 (\$ M) | Unit Cost (\$ M) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | $\begin{aligned} & \text { Total } \\ & \text { Cost } \\ & (\$ M) \\ & \hline \end{aligned}$ |
| Uncategorized |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Minuteman Security Equipment | A |  | - | - | - | - | - | 0.758 | - | - | 0.772 | - | - | 0.000 | - | - | - | - | - | 0.000 |
| Subtotal: Uncategorized |  |  | - |  | - | - |  | 0.758 | - | - | 0.772 | - | - | 0.000 | - | - | - | - | - | 0.000 |
| Total |  |  | - | - | - | - | - | 0.758 | - | - | 0.772 | - | . | 0.000 | - | - | . | . | - | 0.000 |

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| Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2021 Air Force |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Date: February 2020 |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3080F / 03 / 4 |  |  |  |  |  |  |  | P-1 Line Item Number / Title: 834130 / Air Force Physical Security System |  |  |  |  |  |  |  | Aggregated Items Title: Airbase Air Defense Systems (ABADS) |  |  |  |  |
|  |  |  | Prior Years |  |  | FY 2019 |  |  | FY 2020 |  |  | FY 2021 Base |  |  | FY 2021 OCO |  |  | FY 2021 Total |  |  |
| Item Number / Title [DODIC] | $\begin{aligned} & \mathrm{ID} \\ & \mathrm{CD} \end{aligned}$ | $\begin{aligned} & \text { MDAP/ } \\ & \text { MAIS } \\ & \text { Code } \end{aligned}$ | 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) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | Total Cost <br> (\$ M) |
| AIRBASE AIR DEFENSE SYSTEM (ABADS) |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| ABADS | A |  | - | - | - | - | - | 0.000 | - | - | 0.000 | - | - | 9.108 | - | - | 18.922 | - | - | 28.030 |
| Subtotal: AIRBASE AIR DEFENSE SYSTEM (ABADS) |  |  | - | - | - | - | - | 0.000 | - | - | 0.000 | - | - | 9.108 | - | - | 18.922 | - | - | 28.030 |
| Total |  |  | - | - | - | - |  | 0.000 | - | - | 0.000 | - | - | 9.108 | - | - | 18.922 | - | - | 28.030 |

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|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Date: February 2020 <br> Aggregated Items Title: <br> Air Base Ground Defense |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3080F / 03 / 4 |  |  |  |  |  |  |  | P-1 Line Item Number / Title: 834130 / Air Force Physical Security System |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  | ior Yea |  | FY 2019 |  |  | FY 2020 |  |  | FY 2021 Base |  |  | FY 2021 OCO |  |  | FY 2021 Total |  |  |
| Item Number / Title [DODIC] | $\left.\begin{array}{\|c\|} \text { ID } \\ \mathrm{CD} \end{array} \right\rvert\,$ | $\begin{aligned} & \text { MDAP/ } \\ & \text { MAIS } \\ & \text { code } \end{aligned}$ | 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) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | $\begin{aligned} & \text { Total } \\ & \text { Cost } \end{aligned}$ (\$ 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 <br> (\$ M) |
| Physical Security Systems |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Air Force Tactical Security Equipmen | A |  | - | - | - | - | - | - | - | - | 2.099 | - | - | 6.097 | - | - | - | - | - | 6.097 |
| Base Security Zone | A |  | - | - | 0.000 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Al Dhafra | A |  | - | - | 0.000 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Log $\operatorname{Det}$ (EDI) | A |  | - | - | - | - | - | 43.787 | - | - | 106.919 | - | - | 41.471 | - | - | 37.574 | - | - | 79.045 |
| Subtotal: Physical Security Systems |  |  | - | - | - | - | - | 43.787 | - | - | 109.018 | - | - | 47.568 | - | - | 37.574 | - | - | 85.142 |
| Total |  |  | - | - | - | - | - | 43.787 | - | - | 109.018 | - | - | 47.568 | - | - | 37.574 | - | - | 85.142 |

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

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| Exhibit P-40a, Budget Item Justification For Aggregated Modification Items: PB 2021 Air Force |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Date: February 2020 |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3080F / 03 / 4 |  |  |  |  |  |  |  | P-1 Line Item Number / Title: 834130 / Air Force Physical Security System |  |  |  |  |  |  |  | Aggregated Modification Items Title: Base Physical Security Systems |  |  |  |  |
|  | $\begin{aligned} & \text { ID } \\ & \text { CD } \end{aligned}$ | MDAP/ MAIS Code | Prior Years |  |  | FY 2019 |  |  | FY 2020 |  |  | FY 2021 Base |  |  | FY 2021 OCO |  |  | FY 2021 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) | $\underset{(\text { (Each) }}{\text { Qty }}$ | Total Cost (\$ M) | Unit Cost (\$ M) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost (\$ M) | Unit Cost (\$ M) | $\underset{(\text { (Each) }}{\text { Qty }}$ | Total Cost (\$ M) |
| AFPSS4 / Base Physical Security Systems |  |  | - | - | 114.215 | - | - | 0.238 | - | - | 0.608 | - | - | - | - | - | - | - | - | - |
| CENTCOM / C-sUAS CENTCOM JUON |  |  | - | - | 157.144 | - | - | 0.000 | - | - | - | - | - | - | - | - | - | - | - | - |
| CSUAS1 / C-sUAS STRATCOM JEON |  |  | - | - | 195.918 | - | - | 0.000 | - | - | - | - | - | - | - | - | - | - | - | - |
| CSUAS2 / C-sUAS |  |  | - | - | 112.500 | - | - | 11.572 | - | - | 98.000 | - | - | - | - | - | - | - | - | - |
| EUJUON / C-sUAS EUCOM JUON |  |  | - | - | 61.260 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| IBDSS-1 / IBDSS-1 |  |  | - |  | 84.469 | - | - | 43.530 | - | - | 1.173 | - | - | - | - | - | - | - | - | - |
| IBDSS-3 / IBDSS-3 |  |  | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Total |  |  | - | - | 725.506 | - | - | 55.340 | - | - | 99.781 | - | - | 0.000 | - | - | 0.000 | - | - | 0.000 |
|  |  |  |  | FY 2022 |  |  | Y 2023 |  |  | Y 2024 |  |  | Y 2025 |  |  | Compl |  |  | tal Cos |  |
| Item Number / Title | $\begin{aligned} & \text { ID } \\ & \text { CD } \end{aligned}$ | $\begin{aligned} & \text { MDAP/ } \\ & \text { MAIS } \\ & \text { Code } \end{aligned}$ | 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) | $\underset{\text { (Each) }}{\text { Qty }}$ | Total Cost (\$ M) | Unit Cost (\$ M) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost (\$ M) | Unit Cost (\$ M) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost <br> (\$ M) | Unit Cost (\$ M) | $\underset{(\text { (Each) }}{\text { Qty }}$ | Total Cost <br> (\$ M) |
| AFPSS4 / Base Physical Security Systems |  |  | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 115.061 |
| CENTCOM / C-sUAS CENTCOM JUON |  |  | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 157.144 |
| CSUAS1 / C-sUAS STRATCOM JEON |  |  | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 195.918 |
| CSUAS2 / C-sUAS |  |  | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 222.072 |
| EUJUON / C-sUAS EUCOM JUON |  |  | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 61.260 |
| IBDSS-1 / IBDSS-1 |  |  | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 129.172 |
| IBDSS-3 / IBDSS-3 |  |  | - | - | - | - | - | 46.629 | - | - | 52.524 | - | - | 60.602 | - | - | - | - | - | 159.755 |
| Total |  |  | - | - | 0.000 | - | - | 46.629 | - | - | 52.524 | - | - | 60.602 | - | - | 0.000 | - | - | 1,040.382 |

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 |  |
| :--- | :--- | :--- |
| AFPSS4 / Base Physical Security <br> Systems | Bases | Modification Type |
| CENTCOM / C-sUAS CENTCOM JUON | Bases | Capability Improvement |
| CSUAS1 / C-sUAS STRATCOM JEON | Bases | Capability Improvement Improvement |
| CSUAS2 / C-sUAS | Bases | Capability Improvement |
| EUJUON / C-sUAS EUCOM JUON | Bases | Capability Improvement |

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| Exhibit P-40a, Budget Item Justification For Aggregated Modification Items: PB 2021 Air Force |  |  | Date: February 2020 |
| :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3080F / 03 / 4 |  | P-1 Line Item Number / Title: 834130 / Air Force Physical Security System | Aggregated Modification Items Title: Base Physical Security Systems |
| Item Number / Title | Models of Systems Affected | Modification Type |  |
| IBDSS-1/ / IBDSS-1 | Bases | Capability Improvement |  |
| IBDSS-3 / IBDSS-3 | Bases | Capability Improvement |  |

Exhibit P-3a, Individual Modification: PB 2021 Air Force

## Appropriation / Budget Activity / Budget Sub Activity:

 3080F/03/4
## P-1 Line Item Number / Title: 834130 / Air Force Physical Security System

## Date: February 2020

## Modification Number / Title: <br> 1 / IBDSS-2

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

| Resource Summary | Prior <br> Years | FY 2019 | FY 2020 | $\text { FY } 2021$ Base | $\begin{gathered} \text { FY } 2021 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \text { FY } 2021 \\ \text { Total } \end{gathered}$ | FY 2022 | FY 2023 | FY 2024 | FY 2025 | To Complete | Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Procurement Quantity (Units in Each) | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Cost (\$ in Millions) | - | - | 85.903 | 39.601 | 0.000 | 39.601 | 50.711 | 4.966 | 0.000 | - | - | 181.181 |
| Less PY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Net Procurement (P-1) (\$ in Millions) | - | - | 85.903 | 39.601 | 0.000 | 39.601 | 50.711 | 4.966 | 0.000 | - | - | 181.181 |
| Plus CY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Total Obligation Authority (\$ in Millions) | - | - | 85.903 | 39.601 | 0.000 | 39.601 | 50.711 | 4.966 | 0.000 | - | - | 181.181 |
| (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:

INTEGRATED BASE DEFENSE SECURITY SYSTEM (IBDSS-2): Reduces the risk to AF personnel; nuclear (PL-1N), and non-nuclear (PL 1-4) assets (weapon systems, aircraft, command \& control systems, etc.) and facilities (hangars, SCIFs, etc.) at AF and ANG installations globally. DoD downsizing, reductions in forward basing, and aircraft technology advances evolved AF weapons systems into increasingly valuable national power projection capabilities. However, the security afforded most AF aircraft, weapon systems, other critical resources, and associated personnel and facilities in terms of equipment or manpower has not kept pace with the changing world environment, state-of-the-art technology and potential threats. The emergence of Remotely Piloted Aircraft (RPA) has led to additional command, control and communications nodes that require commensurate protection level security efforts to enable effective Air Force power projection. Force Protection IBDSS projects support long-term physical security requirements which allow installation commanders and security forces to adapt to, and counter, enduring and emergent threats to high priority assets in accordance with home station and the Aerospace Expeditionary Force concept. This continuing effort was previously named Base Physical Security Systems and is not a New Start.

INTEGRATED BASE DEFENSE SECURITY SYSTEM (IBDSS-2): FY21 Funding is provided for procurement, installation, integration, training, acceptance testing, and Interim Contractor Support (ICS) for Base Physical Security Systems (BPSS) Intrusion Detection Systems (IDS). The funding also procures, installs and sustains a variety of electronic security alarms, sensors, and related systems to detect and provide early warning of potential threats against Air Force Protection Level (PL) 1,2,3, and 4 mission critical assets. Funding also supports the Nuclear (PL-1N) Weapon Storage Areas (WSAs) located throughout the CONUS and vault storage areas at main operating bases in Europe to meet long term physical security requirements in the face of enduring and emerging threats. This also includes upgrading existing system to ensure required capability for vault storage areas and associated intrusion detection, access control and assessment systems requirements, In Accordance With (IAW) USAF, EUCOM and NATO/SHAPE requirements. The funds also provide for upgrades, refurbishment, replacement or installation of new fences (required for sensor platforms) and/or lighting systems (to support the surveillance/assessment functions). Due to world-wide operational mission events, quantities are subject to change. IBDSS-2 will procure Tactical Automated Security Systems (TASS) and other tactical/expeditionary equipment that is required to provide robust force protection capabilities worldwide; flight-line security, aircraft, intelligence, surveillance, and reconnaissance assets, critical infrastructure, sustained sortie generation and air operations, advanced technology force multipliers to include: night vision and thermal imagery equipment, counter sniper/battery capabilities, ground weapons, target acquisition radar, inter operable tactical communications, [required C3 and protective standoff equipment for]wheeled tactical [non-tactical], armored [un-armored] vehicles, tactical sensors systems, and unit/personnel protective field equipment. Additionally, IBDSS-2 will procure all required Technology Integration Management (TIM) and associated integration and interoperability efforts. Defender Multi-Domain Command, Control and Communications (DMDC3) - The DMDC3 initiative will rapidly develop the foundational structure of IBDSS to provide a platform that integrates the computing power, the means of communication, and the tools for situational awareness.

Milestone/Development Status

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| Exhibit P-3a, Individual Modification: PB 2021 Air Force |  | Date: February 2020 |
| :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3080F / 03 / 4 | P-1 Line Item Number / Title: 834130 / Air Force Physical Security System | Modification Number / Title: 1 / IBDSS-2 |
| ID Code (A=Service Ready, B=Not Service Ready) : A |  | MDAP/MAIS Code: |
| For Force Protection Commercial Off The Shelf (FP COTS) market research, evaluation and testing. The FP COTS testing applies to all available technologies (delay, denial, detection, assessment, communication display, access control and power) which are considered effective for AF physical security use. This program supports the maintenance and test support at Site C 3 and the Cold Weather Test Site (CWTS), as annotated in DoD Directive 3200.11, listing the 46th Test Wing (TW) as a Major Range and Test facility, conducting developmental and operational testing as the primary mission. <br> Continuing COTS and Modified COTS for system equipment as it becomes obsolete. |  |  |

## UNCLASSIFIED

| Exhibit P-3a, Individual Modification: PB 2021 Air Force |  |  |  |  |  |  |  |  | Date: February 2020 |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3080F / 03 / 4 |  |  | P-1 Line Item Number / Title: 834130 / Air Force Physical Security System |  |  |  |  |  | Modification Number / Title: 1 / IBDSS-2 |  |  |  |
| ID Code (A=Service Ready, B=Not Service Ready) : A |  |  |  |  | MDAP/MAIS Code: |  |  |  |  |  |  |  |
| Models of Systems Affected: Bases |  | Modification Type: Capability Improvement |  |  |  |  | Related RDT\&E PEs: 0603287F, 0604287F |  |  |  |  |  |
|  | Prior Years | FY 2019 | FY 2020 | $\begin{aligned} & \text { FY } 2021 \\ & \text { Base } \end{aligned}$ | $\begin{aligned} & \text { FY } 2021 \\ & \text { OCO } \end{aligned}$ | $\begin{aligned} & \text { FY } 2021 \\ & \text { Total } \end{aligned}$ | FY 2022 | FY 2023 | FY 2024 | FY 2025 | To Complete | Total |
| Financial Plan | $\begin{array}{\|c\|} \hline \text { Oty (Each) I } \\ \text { Total Cost (\$M) } \\ \hline \end{array}$ | $\begin{array}{\|c\|} \hline \text { Qty (Each) I } \\ \text { Total Cost (\$ M) } \end{array}$ | $\begin{array}{\|c\|} \hline \text { Qty (Each) I } \\ \text { Total Cost (\$ M) } \\ \hline \end{array}$ | $\begin{array}{\|c\|} \hline \text { Qty (Each) I } \\ \text { Total Cost (\$ M) } \\ \hline \end{array}$ | $\begin{array}{\|c\|} \hline \text { Qty (Each) I } \\ \text { Total Cost (\$ M) } \\ \hline \end{array}$ | $\begin{array}{c\|} \hline \text { Qty (Each)I } \\ \text { Total Cost }(\$ M) \\ \hline \end{array}$ | $\begin{array}{\|c\|} \hline \text { Qty (Each) I } \\ \text { Total Cost (\$ M) } \\ \hline \end{array}$ | $\begin{array}{\|c\|} \hline \text { Qty (Each)I } \\ \text { Total Cost (\$ M) } \\ \hline \end{array}$ | $\begin{array}{\|c\|} \hline \text { Qty (Each)I } \\ \text { Total Cost (\$ M) } \\ \hline \end{array}$ | $\begin{gathered} \text { Qty (Each)I } \\ \text { Total Cost (\$M) } \\ \hline \end{gathered}$ | $\begin{gathered} \text { Oty (Each) I } \\ \text { Total Cost (\$M) } \\ \hline \end{gathered}$ | $\begin{gathered} \text { Qty (Each) I } \\ \text { Total Cost (\$ M) } \end{gathered}$ |
| Procurement |  |  |  |  |  |  |  |  |  |  |  |  |
| Modification Item 1 of 1: IBDSS-2 |  |  |  |  |  |  |  |  |  |  |  |  |
| B Kits |  |  |  |  |  |  |  |  |  |  |  |  |
| Recurring |  |  |  |  |  |  |  |  |  |  |  |  |
| IBDSS-2:EQUIPMENT Group B (Active) | $1-$ | 1 | 9/21.184 | 3/6.272 | -1- | 3/6.272 | 4/10.099 | $1-$ | - 1- | - 1- | 1 | 16/37.555 |
| Subtotal: Recurring | - 1- | 1 - | - /21.184 | - 16.272 | -1- | - 16.272 | - /10.099 | 1 | - 1 | - 1 | - 1- | - 137.555 |
| Subtotal: IBDSS-2 | - 1- | - / - | - 121.184 | - 16.272 | - $1-$ | - 16.272 | - /10.099 | - 1- | - / - | - / - | - 1 - | - /37.555 |
| Subtotal: Procurement, All Modification Items | 1. | 1 | - /21.184 | - 16.272 | - 1 - | - 16.272 | - /10.099 | 1 | 1 | - / | - 1 - | - /37.555 |
| Support (All Modification Items) |  |  |  |  |  |  |  |  |  |  |  |  |
| A\&AS | - 1- | 1 - | - 115.604 | - /17.277 | - 1 - | - /17.277 | - /17.595 | - 14.966 | - 1 - | - 1 - | -1- | - 155.442 |
| PMA - Contractor Services | - 1- | 1. | - 10.000 | - 10.000 | $1-$ | - 10.000 | - 10.000 | - 10.000 | - 1- | - 1- | - 1- | - 10.000 |
| PMA - Other Gov't Costs | - 1 - | - 1- | - 11.440 | - 10.503 | - 1- | - 10.503 | - 10.540 | - 10.000 | - 1- | - 1- | - 1 - | - 12.483 |
| ICS-Labor | 1 | $1-$ | - 10.000 | - 11.589 | 1 | 11.589 | - 10.000 | - 10.000 | - 1- | $1-$ | $1-$ | - 11.589 |
| Subtotal: Support | - 1- | - 1- | - /17.044 | - /19.369 | - 1- | - /19.369 | - /18.135 | - 14.966 | -1. | - $/$ - | - 1 - | - /59.514 |
| Installation |  |  |  |  |  |  |  |  |  |  |  |  |
| Modification Item 1 of 1: IBDSS-2 | - 1 - | 1 - | 9/47.675 | 3/13.960 | 1 - | 3/13.960 | 4/22.477 | - 1 - | - 1 - | - 1 - | - 1 - | 16/84.112 |
| Subtotal: Installation | 1 | $1-$ | 9/47.675 | 3/13.960 | - 1- | 3/13.960 | 4/22.477 | - 1 - | - 1. | - 1 | - 1 - | 16/84.112 |
| Total |  |  |  |  |  |  |  |  |  |  |  |  |
| Total Cost (Procurement + Support + Installation) | - | - | 85.903 | 39.601 | 0.000 | 39.601 | 50.711 | 4.966 | 0.000 | - | - | 181.181 |

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Exhibit P-3a, Individual Modification: PB 2021 Air Force Appropriation / Budget Activity / Budget Sub Activity: 3080F / 03 / 4

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

## Modification Item 1 of 1: IBDSS-2



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## Appropriation / Budget Activity / Budget Sub Activity: <br> 3080F: Other Procurement, Air Force / BA 03: Electronics and Telecommunications

 Equip / BSA 4: Spcl Comm-Electronics Projects
Line Item MDAP/MAIS Code: N/A

| Resource Summary | Prior <br> Years | FY 2019 | FY 2020 | $\begin{gathered} \text { FY } 2021 \\ \text { Base } \end{gathered}$ | $\begin{gathered} \text { FY } 2021 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \text { FY } 2021 \\ \text { Total } \end{gathered}$ | FY 2022 | FY 2023 | FY 2024 | FY 2025 | To Complete | Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Procurement Quantity (Units in Each) | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Cost (\$ in Millions) | 46.420 | 227.598 | 282.893 | 195.185 | - | 195.185 | 222.558 | 177.931 | 178.051 | 170.354 | - | 1,500.990 |
| Less PY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Net Procurement (P-1) (\$ in Millions) | 46.420 | 227.598 | 282.893 | 195.185 | - | 195.185 | 222.558 | 177.931 | 178.051 | 170.354 | - | 1,500.990 |
| Plus CY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Total Obligation Authority (\$ in Millions) | 46.420 | 227.598 | 282.893 | 195.185 | - | 195.185 | 222.558 | 177.931 | 178.051 | 170.354 | - | 1,500.990 |
| (The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.) |  |  |  |  |  |  |  |  |  |  |  |  |
| Initial Spares (\$ in Millions) | - | 14.035 | 2.322 | 8.241 | - | 8.241 | - | - | - | - | - | 24.598 |
| Flyaway Unit Cost (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Unit Cost (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |

## Description:

The Combat Training Ranges (CTR) program procures electronic telecommunication and instrumentation equipment and threat systems for training ranges worldwide to satisfy air combat and electronic warfare (EW) training capability requirements. It also procures range scoring systems and replacement equipment for electronics no longer logistically supportable. Funds may be used to address production Diminishing Manufacturing Sources and Material Shortages(DMSMS)/Obsolescence issues through studies, bridge buys, life of type buys, supplier parts replacement and qualification activities to preserve future production capabilities and capacities.

JOINT THREAT EMITTER (JTE): JTE is designed to train aircrews to survive in a combat environment against Surface-to-Air Missile (SAM) and Air Defense Artillery (ADA) threats. The JTE simulates a range of threat signals, in multiple emitter kits, which interact with the aircraft radar warning receiver and electronic countermeasure system to provide realistic EW training environments for aircrew. The JTE leverages Commercial-Off-The Shelf (COTS) where possible to provide digital signal generation and feedback across its range of threats. The JTE system uses a Command-and-Control Unit (C2U) to operate a Threat Emitter Unit (TEU) contributing to a realistic threat environment for 4th and 5th Generation aircraft. Funding will also be used to purchase services applicable to the acquisition, site activation and implementation of the ground system including range site surveys, installation and training. The program procures new systems, retrofits fielded legacy JTE systems, and procures modifications for obsolete components of the fielded JTE fleet to extend their serviceable life.

ADVANCED RADAR THREAT SYSTEM VARIANT 1 (ARTS-V1): ARTS-V1 program will procure long-range strategic SAM threat training systems. ARTS-V1 is designed to be used at Department of Defense (DoD) training ranges for aircrew training and tactics development to increase combat effectiveness and aircrew survivability by training aircrews to engage or defend against an advanced SAM threat before encountering it in actual combat. While various aircraft platforms may train against ARTS-V1, the focus of the program is to deliver realistic threat replication meant to stress 5th Generation aircraft capabilities.

ADVANCED RADAR THREAT SYSTEM VARIANT 2 (ARTS-V2): The ARTS-V2 program will procure threat training systems based on an advanced tactical, mobile, short/medium range foreign fielded SAM radar threat system. ARTS-V2 is designed to be used at Department of Defense (DoD) training ranges for aircrew training and tactics development to increase combat effectiveness and aircrew survivability by training aircrews to engage or defend against an advanced SAM threat before encountering it in actual combat. Various aircraft platforms will train against ARTS-V2, but the focus of the program is on creation of realistic threats meant to stress 5th Generation aircraft capabilities.

RANGE EQUIPMENT: This effort delivers range infrastructure and equipment in order to monitor and control an extended, realistic target environment for simulated ordnance delivery and provide scoring, feedback and debriefing to the aircrew. This effort includes, but is not limited to, the Joint Advanced Weapon Scoring System (JAWSS) program, which consists of Navy-developed scoring and feedback systems that provide weapon impact and laser spot scoring on bombing and gunnery ranges, EW threat subsystems such as noise and spoofing jammers and ground based laser countermeasures and directed lasers

## Appropriation / Budget Activity / Budget Sub Activity:

3080F: Other Procurement, Air Force / BA 03: Electronics and Telecommunications Equip / BSA 4: Spcl Comm-Electronics Projects
ID Code (A=Service Ready, B=Not Service Ready): A
Program Elements for Code B Items: 0207429F
Other Related Program Elements: N/A

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

 Safety Systems (RSS).





 LVC training, and enhanced debrief capabilities.


 as software support workstations.

 improving their survivability in anti-access/area denial combat environments

Funding for this exhibit contained in PE 0207429F Combat Training Ranges
 defense missions, domestic emergency responses, and providing military support to civil authorities.

| Secondary Distribution |  | FY 2019 | FY 2020 | $\begin{aligned} & \text { FY } 2021 \\ & \text { Base } \end{aligned}$ | $\begin{aligned} & \text { FY } 2021 \\ & \text { OCO } \end{aligned}$ | $\begin{gathered} \text { FY } 2021 \\ \text { Total } \end{gathered}$ | FY 2022 | FY 2023 | FY 2024 | FY 2025 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| AF | Quantity | 8 | 8 | 0 | 0 | 0 | - | - | - | - |
|  | Total Obligation Authority | 187.598 | 282.893 | 195.185 | 0.000 | 195.185 | - | - | - | - |
| AFNG | Quantity | 6 | 0 | 0 | 0 | 0 | - | - | - | - |
|  | Total Obligation Authority | 40.000 | 0.000 | 0.000 | 0.000 | 0.000 | - | - | - | - |
| AFR | Quantity | 0 | 0 | 0 | 0 | 0 | - | - | - | - |
|  | Total Obligation Authority | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | - | - | - | - |
| Total: <br> Secondary Distribution | Quantity | 14 | 8 | 0 | 0 | 0 | - | - | - | - |
|  | Total Obligation Authority | 227.598 | 282.893 | 195.185 | 0.000 | 195.185 | - | - | - | - |



P-1 Line Item Number / Title: 834190 / Combat Training Ranges Equip / BSA 4: Spcl Comm-Electronics Projects

| ID Code (A=Service Ready, B=Not Service Ready): A | Program Elements for Code B Items: 0207429F | Other Related Program Elements: N/A |
| :--- | :--- | :--- |

Line Item MDAP/MAIS Code: N/A

| Exhibits Schedule |  |  |  |  | Prior Years | FY 2019 | FY 2020 | FY 2021 Base | FY 2021 OCO | FY 2021 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 | Advanced Radar Threat System V1 |  | B |  | - 10.000 | - 10.000 | - 10.000 | - / 14.730 | - 10.000 | - / 14.730 |
| P-5 | Advanced Radar Threat System V2 | P-5a | B |  | - 1 - | - 1 - | - 123.761 | - /104.660 | - 1 | - / 104.660 |
| P-40a | CEAR MODS |  |  |  | - 10.300 | - 17.636 | - 11.000 | - 10.000 | - 10.000 | - 10.000 |
| P-5 | Modernization Systems |  | A |  | 1 - | - 10.750 | - 10.750 | - 15.768 | 1 | - 15.768 |
| P-5 | JTE |  | A |  | - $/ 37.089$ | $12 / 82.568$ | 5/48.458 | - 12.939 | 1 | - 12.939 |
| P-40a | JTE |  |  |  | - 19.031 | - 11.707 | - 11.735 | - 10.000 | - 10.000 | - 10.000 |
| P-40a | RIMCOMM AND RANGE EQUIP |  |  |  | - 1 - | - /134.937 | - 1207.189 | - 167.088 | - 1 | - 167.088 |
| P-40 | Total Gross/Weapon System Cost |  |  |  | - 146.420 | - 1227.598 | - 1282.893 | - / 195.185 | - 1 - | - / 195.185 |
| Exhibits Schedule |  |  |  |  | FY 2022 | FY 2023 | FY 2024 | FY 2025 | To Complete | Total |
| Exhibit Type | Title* | Subexhibits | $\begin{aligned} & \text { ID } \\ & \text { CD } \end{aligned}$ | $\begin{gathered} \text { MDAPI } \\ \text { MAIS } \\ \text { Code } \\ \hline \end{gathered}$ | 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 | Advanced Radar Threat System V1 |  | B |  | - 1 | - 1 - | - 1 | - 1 - | - 1 | - 1 - |
| P-5 | Advanced Radar Threat System V2 | P-5a | B |  | - 1 - | - 1 - | - 1 - | - 1 - | - 1 - | 1 |
| P-40a | CEAR MODS |  |  |  | - 10.000 | - 10.000 | - 10.000 | - 10.000 | - 10.000 | - 18.936 |
| P-5 | Modernization Systems |  | A |  | - 1 - | - 1 - | - 1 | - 1 | - 1 | 1 |
| P-5 | JTE |  | A |  | - 1 - | - 1 - | - 1 - | - 1 - | - 1 - | - 1 - |
| P-40a | JTE |  |  |  | - 10.000 | - 10.000 | - 10.000 | - 10.000 | - 10.000 | - /12.473 |
| P-40a | RIMCOMM AND RANGE EQUIP |  |  |  | - 1 - | - 1 - | - 1 - | - 1 - | - 1 | - 1 - |
| P-40 | Total Gross/Weapon System Cost |  |  |  | - 1222.558 | - / 177.931 | - / 178.051 | - /170.354 | 1 | - /1,500.990 |

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

## Justification:

This program, ARTS V1 P-5, is a new start.
ARTS V1: FY21 funding procures long-lead, non-end item components for amplifier assemblies and antenna arrays.
ARTS-V2: FY21 funding procures six ARTS-V2 threat systems (which includes the radar cross section shells),
RANGE EQUIPMENT: FY21 funding supports the replacement and expansion of range infrastructure and equipment that is no longer logistically supportable in order to monitor and control an extended, realistic target environment for simulated ordnance delivery and aircrew training for airborne laser designators.

MODERNIZATION SYSTEMS: FY21 funding procures replacement of one obsolete Band Sim control shelter. The shelters are critical to operate the Band Sim Range Threat System.

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| Exhibit P-40, Budget Line Item Justification: PB 2021 Air Force |  | Date: February 2020 |
| :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3080F: Other Procurement, Air Force / BA 03: Electronics and Telecommunications Equip / BSA 4: Spcl Comm-Electronics Projects | P-1 Line Item Number / Title: 834190 / Combat Training Ranges |  |
| ID Code (A=Service Ready, B=Not Service Ready): A Program Elements for Code B It | Program Elements for Code B Items: 0207429F Other Related Program Elements: N/A |  |
| Line Item MDAP/MAIS Code: N/A |  |  |
| Efforts with funding starting in FY 2022 through FY 2025 are summarized on the P-40. Not all deta follows: | ils of this funding are included in this P-4 <br> ${ }^{\text {(a) }}$ FY 2022 Cost Delta: 222.558 million <br> ${ }^{(b)}$ FY 2023 Cost Delta: 177.931 million <br> ${ }^{\text {(c) }}$ FY 2024 Cost Delta: 178.051 million <br> ${ }^{\text {(d) }}$ FY 2025 Cost Delta: 170.354 million <br> ${ }^{(e)}$ FY Total Cost Delta: $1,479.581$ million | et. A summary of the excepted details is as |

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Exhibit P-5, Cost Analysis: PB 2021 Air Force
Appropriation / Budget Activity / Budget Sub Activity: 3080F / 03 / 4

## P-1 Line Item Number / Title: 834190 / Combat Training Ranges

## Date: February 2020

Item Number / Title [DODIC]:
Advanced Radar Threat System V2

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

| MDAP/MAIS Code: |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Resource Summary | Prior Years | FY 2019 | FY 2020 | FY 2021 Base | FY 2021 OCO | FY 2021 Total |
| Procurement Quantity (Units in Each) | - | - | - | - | - | - |
| Gross/Weapon System Cost (\$ in Millions) | - | - | 23.761 | 104.660 | - | 104.660 |
| Less PY Advance Procurement (\$ in Millions) | - | - | - | - | - | - |
| Net Procurement (P-1) (\$ in Millions) | - | - | 23.761 | 104.660 | - | 104.660 |
| Plus CY Advance Procurement (\$ in Millions) | - | - | - | - | - | - |
| Total Obligation Authority (\$ in Millions) | - | - | 23.761 | 104.660 | - | 104.660 |
| (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 2019 |  |  | FY 2020 |  |  | FY 2021 Base |  |  | FY 2021 OCO |  |  | FY 2021 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 <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 - Advanced Radar Threat System V2 Cost |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Recurring Cost |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Equipment ${ }^{(t)}$ | - | - | - | - | - | - | 22.661 | 1 | 22.661 | 16.260 |  | 97.560 | - | - | - | 16.260 | 6 | 97.560 |
| Subtotal: Recurring Cost | - | - | - | - | - | - | - | - | 22.661 | - | - | 97.560 | - | - | - | - | - | 97.560 |
| Subtotal: Hardware Advanced Radar Threat System V2 Cost | - | - | - | - | - | - | - | - | 22.661 | - | - | 97.560 | - | - | - | - | - | 97.560 |
| Support - Advanced Radar Threat System V2 Cost |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| ARTS V2 PMA | - | - | - | - | - | - | - | - | 1.100 | - | - | 7.100 | - | - | - | - | - | 7.100 |
| Subtotal: Support - <br> Advanced Radar Threat <br> System V2 Cost | - | - | - | - | - | - | - | - | 1.100 | - | - | 7.100 | - | - | - | - | - | 7.100 |
| Gross/Weapon System Cost | - | - | - | - | - | - | - | - | 23.761 | - | - | 104.660 | - | - | - | - | - | 104.660 |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Secondary Distribution |  |  |  |  |  |  | FY 2019 |  |  | FY 2020 |  | $\begin{gathered} \text { FY } 2021 \\ \text { Base } \end{gathered}$ |  | $\begin{gathered} \text { FY } 2021 \\ \text { OCO } \end{gathered}$ |  | $\begin{gathered} \text { FY } 2021 \\ \text { Total } \end{gathered}$ |  |  |
| AF |  | Quantity |  |  |  |  |  |  |  |  | - |  | - |  |  | - |  | - |
|  |  |  | bligation | uthority |  |  |  |  |  |  | 23.761 |  | 104.660 |  |  | - |  | 104.660 |
| Total: <br> Secondary Distribution |  | Quantity |  |  |  |  |  |  |  |  | - |  | - |  |  | - |  | - |
|  |  | Total Obligation Authority |  |  |  |  |  |  |  |  | 23.761 |  | 104.660 |  |  | - |  | 104.660 |

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

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## UNCLASSIFIED

| Exhibit P-40a, Budget Item Justification For Aggregated Modification Items: PB 2021 Air Force |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Date: February 2020 |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3080F / 03 / 4 |  |  |  |  |  |  |  | P-1 Line Item Number / Title: 834190 / Combat Training Ranges |  |  |  |  |  |  |  | Aggregated Modification Items Title: CEAR MODS |  |  |  |  |
|  | $\begin{aligned} & \text { ID } \\ & \text { CD } \end{aligned}$ | MDAP/ MAIS Code | Prior Years |  |  | FY 2019 |  |  | FY 2020 |  |  | FY 2021 Base |  |  | FY 2021 OCO |  |  | FY 2021 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 (\$ 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) |
| CTR02 / CEAR UMTE Mod |  |  | - | - | 0.300 | - | - | 7.636 | - | - | 1.000 | - | - | - | - | - | - | - | - | - |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | - |  | - | 7.636 |  | - | 1.000 |  |  | - |  | - | - |  | - | - |
| Total |  |  | - | - | 0.300 | - | - | 7.636 | - | - | 1.000 | - | - | 0.000 | - | - | 0.000 | - | - | 0.000 |
|  |  |  | FY 2022 |  |  | FY 2023 |  |  | FY 2024 |  |  | FY 2025 |  |  | To Complete |  |  | Total Cost |  |  |
| Item Number / Title | $\begin{aligned} & \text { ID } \\ & C D \end{aligned}$ | MDAP/ mals 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 (\$ 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 <br> (\$ M) | Unit Cost (\$ M) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost (\$ M) |
| CTR02 / CEAR UMTE Mod |  |  | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 8.936 |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | - |  | - | - |  | - | - |  | - | - |  | - | - |  | - | - |
| Total |  |  | - | - | 0.000 | - | - | 0.000 | - | - | 0.000 | - | - | 0.000 | - | - | 0.000 | - | - | 8.936 |

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 |
| :--- | :--- | :--- |
| CTR02 / CEAR UMTE Mod | CombatTrainingRange | Capability Improvement |

## UNCLASSIFIED

Exhibit P-5, Cost Analysis: PB 2021 Air Force
Appropriation / Budget Activity / Budget Sub Activity 3080F / 03 / 4
ID Code (A=Service Ready, B=Not Service Ready) : A

Date: February 2020
Item Number / Title [DODIC]:
Modernization Systems


Remarks:
DTR procurement funds support replacement of 1 Band Sim Control Shelter

| Secondary Distribution |  | FY 2019 | FY 2020 | $\begin{aligned} & \text { FY } 2021 \\ & \text { Base } \end{aligned}$ | $\begin{aligned} & \text { FY } 2021 \\ & \text { OCO } \end{aligned}$ | $\begin{gathered} \text { FY } 2021 \\ \text { Total } \end{gathered}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| AF | Quantity | - | - | - | - | - |
|  | Total Obligation Authority | 0.750 | 0.750 | 5.768 | - | 5.768 |
| Total: | Quantity | - | - | - | - | - |

UNCLASSIFIED

| Exhibit P-5, Cost Analysis: PB 2021 Air Force |  |  |  | Date: February 2020 <br> Item Number / Title [DODIC]: <br> Modernization Systems |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3080F / 03 / 4 | P-1 Line Item Number / Title: 834190 / Combat Training Ranges |  |  |  |  |
| ID Code (A=Service Ready, B=Not Service Ready) : A |  | MDAP/MAIS Code: |  |  |  |
| Secondary Distribution | FY 2019 | FY 2020 | $\begin{aligned} & \text { FY } 2021 \\ & \text { Base } \end{aligned}$ | $\begin{aligned} & \text { FY } 2021 \\ & \text { OCO } \end{aligned}$ | $\begin{aligned} & \text { FY } 2021 \\ & \text { Total } \end{aligned}$ |
| Secondary Distribution Total Obligation Authority | 0.750 | 0.750 | 5.768 | - |  |

## UNCLASSIFIED

Exhibit P-5, Cost Analysis: PB 2021 Air Force

## Appropriation / Budget Activity / Budget Sub Activity

 3080F / 03 / 4Date: February 2020

## Item Number / Title [DODIC]:

JTE

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

## P-1 Line Item Number / Title: 834190 / Combat Training Ranges

| Resource Summary | Prior Years | FY 2019 | FY 2020 | FY 2021 Base | FY 2021 OCO | FY 2021 Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Procurement Quantity (Units in Each) | - | 12 | 5 | - | - | - |
| Gross/Weapon System Cost (\$ in Millions) | 37.089 | 82.568 | 48.458 | 2.939 | - | 2.939 |
| Less PY Advance Procurement (\$ in Millions) | - | - | - | - | - | - |
| Net Procurement (P-1) (\$ in Millions) | 37.089 | 82.568 | 48.458 | 2.939 | - | 2.939 |
| Plus CY Advance Procurement (\$ in Millions) | - | - | - | - | - | - |
| Total Obligation Authority (\$ in Millions) | 37.089 | 82.568 | 48.458 | 2.939 | - | 2.939 |
| (The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.) |  |  |  |  |  |  |
| Initial Spares (\$ in Millions) | - | 14.035 | 2.322 | 8.241 | - | 8.241 |
| Gross/Weapon System Unit Cost (\$ in Millions) | - | 6.881 | 9.692 | - | - | - |

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

|  | Prior Years |  |  | FY 2019 |  |  | FY 2020 |  |  | FY 2021 Base |  |  | FY 2021 OCO |  |  | FY 2021 Total |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Cost Elements | 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 <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) |

## Hardware - JTE Cost <br> Recurring Cost

| JTE Threat Emitter Unit (TEU) | 5.712 | 5 | 28.560 | 6.542 | 2 | 13.084 | - | - | - | - | - | - | - | - | - | - | - | - |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| JTE Fixed Command \& Control Unit (FC2U) | 0.658 | 5 | 3.290 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| JTE Wideband Threat Emitter Unit (WTEU) | 5.239 | 1 | 5.239 | 5.239 | 12 | 62.868 | 5.370 | 5 | 26.850 | - | - | - | - | - | - | - | - | - |
| JTE Spares | - | - | - | - | - | - | - | - | 10.088 | - | - | - | - | - | - | - | - | - |
| Subtotal: Recurring Cost | - | - | 37.089 | - | - | 75.952 | - | - | 36.938 | - | - | - | - | - | - | - | - | - |
| Subtotal: Hardware - JTE Cost | - | - | 37.089 | - | - | 75.952 | - | - | 36.938 | - | - | - | - | - | - | - | - | - |
| Support - JTE Cost |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| A\&AS (PMA) | - | - | - | - | - | 1.840 | - | - | 1.540 | - | - | 1.910 | - | - | - | - | - | 1.910 |
| PMA | - | - | - | - | - | 0.010 | - | - | 0.010 | - | - | 0.010 | - | - | - | - | - | 0.010 |
| Support | - | - | - | - | - | 4.766 | - | - | 9.970 | - | - | 1.019 | - | - | - | - | - | 1.019 |
| Subtotal: Support - JTE Cost | - | - | - | - | - | 6.616 | - | - | 11.520 | - | - | 2.939 | - | - | - | - | - | 2.939 |
| Gross/Weapon System Cost | - | - | 37.089 | 6.881 | 12 | 82.568 | 9.692 | 5 | 48.458 | - | - | 2.939 | - | - | - | - | - | 2.939 |

## Remarks:

- Support includes JTE end item engineering change proposals, training, and travel

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| Exhibit P-5, Cost Analysis: PB 2021 Air Force |  |  |  |  | Date: February 2020 |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3080F / 03 / 4 |  | P-1 Line Item Number / Title: 834190 / Combat Training Ranges |  |  | Item Number / Title [DODIC]: JTE |  |
| ID Code (A=Service Ready, B=Not Service Ready) : A |  |  | MDAP/MAIS Code: |  |  |  |
| Secondary Distribution |  | FY 2019 | FY 2020 | $\begin{gathered} \text { FY } 2021 \\ \text { Base } \end{gathered}$ | $\begin{gathered} \hline \text { FY } 2021 \\ \text { OCO } \end{gathered}$ | $\begin{aligned} & \text { FY } 2021 \\ & \text { Total } \end{aligned}$ |
| AF | Quantity | 6 | 5 | - | - | - |
|  | Total Obligation Authority | 42.568 | 48.458 | 2.939 | - | 2.939 |
| AFNG | Quantity | 6 | - | - | - | - |
|  | Total Obligation Authority | 40.000 | - | - | - | - |
| Total: <br> Secondary Distribution | Quantity | 12 | 5 | - | - | - |
|  | Total Obligation Authority | 82.568 | 48.458 | 2.939 | 9 | 2.939 |

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| Exhibit P-40a, Budget Item Justification For Aggregated Modification Items: PB 2021 Air Force |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Date: February 2020 |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3080F / 03 / 4 |  |  |  |  |  |  |  | P-1 Line Item Number / Title: <br> 834190 / Combat Training Ranges |  |  |  |  |  |  |  | Aggregated Modification Items Title: JTE |  |  |  |  |
|  | $\begin{aligned} & \text { ID } \\ & \text { CD } \end{aligned}$ | MDAP/ MAIS Code | Prior Years |  |  | FY 2019 |  |  | FY 2020 |  |  | FY 2021 Base |  |  | FY 2021 OCO |  |  | FY 2021 Total |  |  |
| Item Number / Title |  |  | 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 (\$ 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) |
| CTR01 / Combat Training Ranges Joint Threat Emitter |  |  | - | - | 9.031 | - | . | 1.707 | - | - | 1.735 | - | - | 0.000 | - | - | - | - | - | 0.000 |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | - |  | - | 1.707 |  | - | 1.735 |  | - | 0.000 |  | - | - |  | - | 0.000 |
| Total |  |  | - | - | 9.031 | - | - | 1.707 | - | - | 1.735 | - | - | 0.000 | - | - | 0.000 | - | - | 0.000 |
|  |  |  | FY 2022 |  |  | FY 2023 |  |  | FY 2024 |  |  | FY 2025 |  |  | To Complete |  |  | Total Cost |  |  |
| Item Number / Title | $\begin{aligned} & \text { ID } \\ & \text { CD } \end{aligned}$ | MDAP/ MAIS 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 (\$ 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) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost <br> (\$ M) | Unit Cost (\$ M) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost (\$ M) |
| CTR01 / Combat Training Ranges Joint Threat Emitter |  |  | - | - | - | - | . | . | - | - | - | - | - | - | - | - | . | - | - | 12.473 |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | - |  | - | - |  | - | - |  | - | - |  | - | - |  | - | - |
| Total |  |  | - | - | 0.000 | - | - | 0.000 | - | - | 0.000 | - | - | 0.000 | - | - | 0.000 | - | - | 12.473 |

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 |
| :--- | :--- | :--- |
| CTR01 / Combat Training Ranges Joint <br> Threat Emitter | JointThreatEmitter | Service Life Extension |

## UNCLASSIFIED

| Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2021 Air Force |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Date: February 2020 <br> Aggregated Items Title: <br> RIMCOMM AND RANGE EQUIP |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3080F / 03 / 4 |  |  |  |  |  |  | P-1 Line Item Number / Title: 834190 / Combat Training Ranges |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  | ior Yea |  | FY 2019 |  |  | FY 2020 |  |  | FY 2021 Base |  |  | FY 2021 OCO |  |  | FY 2021 Total |  |  |
| Item Number / Title [DODIC] | $\begin{array}{\|l\|l\|}  & \text { MDAP/ } \\ \text { ID } & \text { MAIS } \\ \text { CD } & \text { Code } \\ \hline \end{array}$ | Unit Cost (\$ M) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | Total Cost (\$ M) | Unit Cost (\$ M) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | $\begin{aligned} & \text { Total } \\ & \text { Cost } \\ & (\$ M) \\ & \hline \end{aligned}$ | 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 (\$ 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) |
| RIMCOMM |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| RIMCOMM Projects | A | - | - | - | - | - | 64.237 | - | - | 83.151 | - |  | - | - | - |  | - | - | - |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  | - | - |  | - | 64.237 |  | - | 83.151 |  |  | - |  | - | - |  | - |  |
| Subtotal: RIMCOMM |  | - | - | - | - | - | 64.237 | - | - | 83.151 | - | - | - | - | - | - | - | - | - |
| Range Equipment |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Range Equipment Projects | A | - | - |  | - | - | 18.115 | - | - | 52.638 | - |  | 67.088 | - | - | - | - | - | 67.088 |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  | - |  |  | - | 18.115 |  | - | 52.638 |  | - | 67.088 |  | - | - |  | - | 67.088 |
| Radar Signal Emulators | A | - | - | - | 23.625 |  | ${ }^{2} \quad 47.250$ | 20.900 | 2 | 41.800 | - | - | - | - | - | - | - | - | - |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  | - | - |  |  | $2{ }^{2} 47.250$ |  | 2 | 41.800 |  | - | - |  | - | - |  | - | - |
| Mobile Radar System | A | - | - | - | - | - | - - | 29.600 | 1 | 29.600 | - | - | - | - | - | - | - | - | - |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  | - | - |  | - | - - |  | 1 | 29.600 |  | - | - |  | - | - |  | - | - |
| Subtotal: Range Equipment |  | - | - | - | - | - | 65.365 | - | - | 124.038 | - | - | 67.088 | - | - | - | - | - | 67.088 |
| Support |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| RSE PMA | A | - | - | - | - | - | 5.335 | - | - | 0.000 | - | - | - | - | - | - | - | - | - |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  | - | - |  | - | 5.335 |  | - | 0.000 |  | - | - |  | - | - |  | - | - |
| Subtotal: Support |  | $\cdot$ | - | - | - | - | 5.335 | - | - | 0.000 | - | - | - | $\cdot$ | - | - | - | - | - |
| Total |  | - | - |  |  |  | 134.937 | - |  | 207.189 | - |  | 67.088 | - | - | - | - | - | 67.088 |
| Remarks: <br>  <br> - Radar Signal Emulators (RSE) fielding at Joint Pacific Alaska Range Complex. <br> - Mobile Radar System (MRS) will field at Nevada Test and Training Range. <br> - Support for sustainment and modernization of legacy and Operational Training Infrastructure Investments (i.e. Link-16 radios, communication pipes, War Room infrastructure). |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

Exhibit P-40, Budget Line Item Justification: PB 2021 Air Force
Date: February 2020

## P-1 Line Item Number / Title: <br> 834210 / Minimum Essential Emergency Comm N

## Appropriation / Budget Activity / Budget Sub Activity: <br> 3080F: Other Procurement, Air Force / BA 03: Electronics and Telecommunications

 Equip / BSA 4: Spcl Comm-Electronics Projects|  |  | Program Elements for Code B Items: 0303131F | Other Related Program Elements: N/A |
| :--- | :--- | :--- | :--- |

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

| Resource Summary | Prior <br> Years | FY 2019 | FY 2020 | $\text { FY } 2021$ <br> Base | $\begin{gathered} \text { FY } 2021 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \text { FY } 2021 \\ \text { Total } \end{gathered}$ | FY 2022 | FY 2023 | FY 2024 | FY 2025 | To Complete | Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Procurement Quantity (Units in Each) | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Cost (\$ in Millions) | - | 140.875 | 132.648 | 29.664 | - | 29.664 | 63.552 | 40.638 | 47.557 | 44.279 | - | 499.213 |
| Less PY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Net Procurement (P-1) (\$ in Millions) | - | 140.875 | 132.648 | 29.664 | - | 29.664 | 63.552 | 40.638 | 47.557 | 44.279 | - | 499.213 |
| Plus CY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Total Obligation Authority (\$ in Millions) | - | 140.875 | 132.648 | 29.664 | - | 29.664 | 63.552 | 40.638 | 47.557 | 44.279 | - | 499.213 |
| (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:

 strategic deterrence forces in stressed environments

Global Aircrew Strategic Network Terminal (Global ASNT) replaces inadequate, unsustainable strategic communications equipment at bomber, tanker and reconnaissance Wing Command Posts (WCPs), Nuclear Task Forces and Munitions Support Squadrons (MUNSS) and for Mobile Support Teams (MSTs). Global ASNT is a ground-based system that will provide survivable, secure communication paths to receive Emergency Action Messages (EAMs), Force Management messages, and Force Direction messages and disseminate them to bomber, tanker, and reconnaissance aircrews.

Global ASNT is being fielded in separate capability increments.
Global ASNT Inc 1 fields required Extremely High Frequency/Advanced Extremely High Frequency (EHF/AEHF) capabilities and replaces inadequate, unsustainable strategic mobile and fixed-site Single Channel Anti-jam Man-Portable (SCAMP) terminals and Secure, Mobile, Anti-Jam, Reliable, Tactical - Terminal (SMART-T) equipment. FY15 was the first year of Increment 1 procurement funding to support preproduction activities. The majority of pre-production support activities were conducted in FY17 and FY18 in advance of the Milestone C decision in 3QFY19.

RDT\&E funding for this exhibit is contained in PE 0303131F.

| Exhibit P-40, Budget Line Item Justification: PB 2021 Air Force |  |  |  |  |  |  |  | Date: February 2020 |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: <br> 3080F: Other Procurement, Air Force / BA 03: Electronics and Telecommunications Equip / BSA 4: Spcl Comm-Electronics Projects |  |  |  |  |  | P-1 Line Item Number / Title: <br> 834210 / Minimum Essential Emergency Comm N |  |  |  |  |
| ID Code (A=Service Ready, B=Not Service Ready): <br> Line Item MDAP/MAIS Code: N/A |  | Program Elements for Code B Items: 0303131F |  |  |  |  | Other Related Program Elements: N/A |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |
| Exhibits Schedule |  |  |  |  | Prior Years | FY 2019 | FY 2020 | FY 2021 Base | FY 2021 OCO | FY 2021 Total |
| $\begin{aligned} & \text { Exhibit } \\ & \text { Type } \\ & \hline \end{aligned}$ | Title* | Subexhibits | $\begin{array}{\|l\|l\|} \hline \text { ID } \\ \text { CD } \end{array}$ | $\begin{aligned} & \hline \text { MDAPP } \\ & \text { MAIS } \\ & \text { Code } \end{aligned}$ | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) |
| P-5 | Minimum Essential Emergency Comm N |  | B |  | - 1- | - /140.875 | - /132.648 | - 129.664 | - 1- | - 129.664 |
| P-40 | Total Gross/Weapon System Cost |  |  |  | - 1. | - / 140.875 | - 1132.648 | - 129.664 | - 1. | - 129.664 |

## *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:

 control, production roadmap activities, procurement of 42 production kits, site installations, and initiate interim contractor support (ICS).


This program has overarching diminishing manufacturing sources (DMS) requirements and as such may need to use procurement funding to address these requirements.

Exhibit P-5, Cost Analysis: PB 2021 Air Force

Appropriation / Budget Activity / Budget Sub Activity: 3080F / 03 / 4
ID Code (A=Service Ready, B=Not Service Ready) : B

## P-1 Line Item Number / Title: 834210 / Minimum Essential Emergency Comm N

## Date: February 2020

## Item Number / Title [DODIC]:

Minimum Essential Emergency Comm N

| MDAP/MAIS Code: |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Resource Summary | Prior Years | FY 2019 | FY 2020 | FY 2021 Base | FY 2021 OCO | FY 2021 Total |
| Procurement Quantity (Units in Each) | - | - | - | - | - | - |
| Gross/Weapon System Cost (\$ in Millions) | - | 140.875 | 132.648 | 29.664 | - | 29.664 |
| Less PY Advance Procurement (\$ in Millions) | - | - | - | - | - | - |
| Net Procurement (P-1) (\$ in Millions) | - | 140.875 | 132.648 | 29.664 | - | 29.664 |
| Plus CY Advance Procurement (\$ in Millions) | - | - | - | - | - | - |
| Total Obligation Authority (\$ in Millions) | - | 140.875 | 132.648 | 29.664 | - | 29.664 |
| (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 2019 |  |  | FY 2020 |  |  | FY 2021 Base |  |  | FY 2021 OCO |  |  | FY 2021 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) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | 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) |
| Hardware - Minimum Essential Emergency Comm N Cost |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Recurring Cost |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Global ASNT Terminals | - | - | - | 2.723 | 48 | 130.697 | 2.929 | 42 | 123.029 | - | - | - | - | - | - | - | - | - |
| Electronic Security System (ESS) | - | - | - | 0.267 | 26 | 6.950 | 0.250 | 12 | 3.000 | - | - | - | - | - | - | - | - | - |
| Subtotal: Recurring Cost | - | - | - | - | - | 137.647 | - | - | 126.029 | - | - | - | - | - | - | - | - | - |
| Subtotal: Hardware <br> - Minimum Essential <br> Emergency Comm N Cost | - | - | - | - | - | 137.647 | - | - | 126.029 | - | - | - | - | - | - | - | - | - |
| Support - Minimum Essential Emergency Communication Network (MEECN) Cost |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Direct Mission Suppt (DMS) | - | - | - | - | - | 0.920 | - | - | 2.354 | - | - | 25.558 | - | - | - | - | - | 25.558 |
| Program Support Cost (PSC) | - | - | - | - | - | 2.308 | - | - | 4.265 | - | - | 4.106 | - | - | - | - | - | 4.106 |
| Subtotal: Support - Minimum Essential Emergency Communication Network (MEECN) Cost | - | - | - | - | - | 3.228 | - | - | 6.619 | - | - | 29.664 | - | - | - | - | - | 29.664 |
| Gross/Weapon System Cost | - | - | - | - | - | 140.875 | - | - | 132.648 | - | - | 29.664 | - | - | - | - | - | 29.664 |

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Exhibit P-40, Budget Line Item Justification: PB 2021 Air Force
Date: February 2020
Appropriation / Budget Activity / Budget Sub Activity:
3080F: Other Procurement, Air Force / BA 03: Electronics and Telecommunications
Equip / BSA 4: Spcl Comm-Electronics Projects

## P-1 Line Item Number / Title: 834240 / Wide Area Surveillance (WAS)

 Equip / BSA 4: Spcl Comm-Electronics Projects| ID Code (A=Service Ready, B=Not Service Ready): B | Program Elements for Code B Items: 0604445F | Other Related Program Elements: 0604445F |
| :--- | :--- | :--- |

## Line Item MDAP/MAIS Code: 519

| Resource Summary | Prior <br> Years | FY 2019 | FY 2020 | $\begin{gathered} \text { FY } 2021 \\ \text { Base } \end{gathered}$ | $\begin{gathered} \text { FY } 2021 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \text { FY } 2021 \\ \text { Total } \end{gathered}$ | FY 2022 | FY 2023 | FY 2024 | FY 2025 | To Complete | Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Procurement Quantity (Units in Each) | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Cost (\$ in Millions) | 62.655 | 75.532 | 42.118 | 59.633 | - | 59.633 | 53.049 | 8.292 | 0.000 | 0.000 | 243.071 | 544.350 |
| Less PY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Net Procurement (P-1) (\$ in Millions) | 62.655 | 75.532 | 42.118 | 59.633 | - | 59.633 | 53.049 | 8.292 | 0.000 | 0.000 | 243.071 | 544.350 |
| Plus CY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Total Obligation Authority (\$ in Millions) | 62.655 | 75.532 | 42.118 | 59.633 | - | 59.633 | 53.049 | 8.292 | 0.000 | 0.000 | 243.071 | 544.350 |
| (The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.) |  |  |  |  |  |  |  |  |  |  |  |  |
| Initial Spares (\$ in Millions) | - | - | 3.007 | 1.904 | - | 1.904 | 8.904 | 5.057 | 5.413 | 5.471 | - | 29.756 |
| Flyaway Unit Cost (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Unit Cost (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |

## Description:

 cruise missile defense of the National Capital Region (NCR).

 incorporated into the Battle Control Systems-Fixed (BCS-F) air picture and utilized as the NORAD/USNORTHCOM Command and Control (C2) air surveillance system of record.
 Production and Interim Contractor Support (ICS) Contract options for both STARS and Scorpion systems as well as procure initial spares and repair parts.

Funding for this exhibit is contained in PE 0604445F, Wide Area Surveillance.
Some aspects of the WAS program are classified and information will be provided on a need-to-know basis.


## UNCLASSIFIED

Exhibit P-5, Cost Analysis: PB 2021 Air Force

## Appropriation / Budget Activity / Budget Sub Activity

 3080F / 03 / 4
## P-1 Line Item Number / Title 834240 / Wide Area Surveillance (WAS)

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

| Resource Summary |  |  |  |  |  | Prior Years |  | FY 2019 |  | FY 2020 |  | FY 2021 Base |  |  | FY 2021 OCO |  | FY 2021 Total |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Procurement Quantity (Units in Each) |  |  |  |  |  |  | - |  | - |  | - |  |  | - |  | - |  | - |
| Gross/Weapon System Cost (\$ in Millions) |  |  |  |  |  |  | 62.655 |  | 75.532 |  | 42.118 |  |  | 633 |  | - |  | 59.633 |
| Less PY Advance Procurement (\$ in Millions) |  |  |  |  |  |  | - |  | - |  | - |  |  | - |  | - |  | - |
| Net Procurement (P-1) (\$ in Millions) |  |  |  |  |  |  | 62.655 |  | 75.532 |  | 42.118 |  |  | 633 |  | - |  | 59.633 |
| Plus CY Advance Procurement (\$ in Millions) |  |  |  |  |  |  | - |  | - |  | - |  |  | - |  | - |  | - |
| Total Obligation Authority (\$ in Millions) |  |  |  |  |  |  | 62.655 |  | 75.532 |  | 42.118 |  |  | 633 |  | - |  | 59.633 |
| (The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.) |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Initial Spares (\$ in Millions) |  |  |  |  |  |  | 0.000 |  | 0.000 |  | 3.007 |  |  | 904 |  | - |  | 1.904 |
| 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 2019 |  |  | FY 2020 |  |  | FY 2021 Base |  |  | FY 2021 OCO |  |  | FY 2021 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) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | 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) | Unit Cost (\$ M) | Qty (Each) | Total Cost <br> (\$ M) |
| Hardware - Wide Area Surveillance ${ }^{(1)}$ Cost |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Recurring Cost |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Prime ${ }^{(\dagger)(2)}$ | - | - | - | 2.446 | 11 | $1{ }^{1} \quad 26.910$ | 1.854 | 15 | 27.813 | 16.590 | 3 | 49.769 | - |  | - | 16.590 | 3 | 49.769 |
| Subtotal: Recurring Cost | - | - | - | - | - | 26.910 | - | - | 27.813 | - | - | 49.769 | - |  | - - | - | - | 49.769 |
| Non Recurring Cost |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Prime ICS | - | - | 50.857 | - | - | 34.503 | - | - | 6.491 | - | - | 5.431 | - |  | - - | - | - | 5.431 |
| Subtotal: Non Recurring Cost | - | - | 50.857 | - | - | 34.503 | - | - | 6.491 | - | - | 5.431 | - |  | - | - | - | 5.431 |
| Subtotal: Hardware - Wide Area Surveillance Cost | - | - | 50.857 | - | - | 61.413 | - | - | 34.304 | - | - | 55.200 | - |  | - | - | - | 55.200 |
| Support - Wide Area Surveillance Cost |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| DMS Support | - | - | 0.927 | - | - | 5.558 | - | - | 0.711 | - | - | 1.000 | - |  | - - | - | - | 1.000 |
| PMA Contractor Services | - | - | 10.871 | - | - | 8.561 | - | - | 7.103 | - | - | 3.433 | - |  | - - | - | - | 3.433 |
| Subtotal: Support - Wide Area Surveillance Cost | - | - | 11.798 | - | - | 14.119 | - | - | 7.814 | - | - | 4.433 | - |  | - - | - | - | 4.433 |
| Gross/Weapon System Cost | - | - | 62.655 | - | - | 75.532 | - | - | 42.118 | - | - | 59.633 | - |  | - | - | - | 59.633 |

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

## Footnotes:

${ }^{(1)}$ System quantities in FY19 and FY20 have increased within existing resources to meet fully operational capability in FY24.

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| Exhibit P-5, Cost Analysis: PB 2021 Air Force | Date: February 2020 |  |
| :--- | :--- | :--- |
| Appropriation / Budget Activity / Budget Sub Activity: <br> $3080 \mathrm{~F} / 03$ / 4 | P-1 Line Item Number / Title: <br> $834240 /$ Wide Area Surveillance (WAS) | Item Number / Title [DODIC]: <br> Wide Area Surveillance |
| ID Code (A=Serice Ready, B=Not Serice Ready) : B | MDAP/MAIS Code: |  |

${ }^{(2)}$ Hardware Recurring Prime: FY19/ FY20/ FY21 total WAS quantities/costs will be broken out between Stateside Affordable Radar Systems (STARS) and Scorpion systems, which have noticeably different average unit costs;

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| Exhibit P-5a, Procurement History and Planning: PB 2021 Air Force |  |  |  |  |  |  |  | Date: February 2020 <br> Item Number / Title [DODIC]: <br> Wide Area Surveillance |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Bud 3080F / 03 / 4 |  |  | Sub Activity: | P-1 Line Item Number / Title: 834240 / Wide Area Surveillance (WAS) |  |  |  |  |  |  |  |  |
| 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 Delivery | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | Unit Cost (\$ M) | Specs Avail Now? | Date Revision Available | RFP Issue Date |
| Prime ${ }^{(t)}$ |  | 2019 | Multiple/Various ${ }^{(3)} /$ Various | TBD | AFLCMC Hanscom AFB | Mar 2020 | Apr $2021{ }^{(4)}$ | 11 | 2.446 | N | Jun 2019 |  |
| Prime ${ }^{(+)}$ |  | 2020 | Multiple/Various ${ }^{(3)} /$ Various | TBD | AFLCMC Hanscom AFB | Aug 2021 | Oct 2022 ${ }^{(5)}$ | 15 | 1.854 | N | Jun 2020 |  |
| Prime ${ }^{(t)}$ |  | 2021 | Multiple/Various ${ }^{(3)} /$ Various | TBD | AFLCMC Hanscom AFB | Jul 2021 | Jul $2023{ }^{(6)}$ | 3 | 16.590 | N | Jun 2021 |  |

${ }^{(t)}$ indicates the presence of a P-21

## Footnotes:

${ }^{(3)}$ Hardware Recurring Prime: FY19/ FY20/ FY21 total WAS quantities/costs will be broken out between Stateside Affordable Radar Systems (STARS) and Scorpion systems, which have noticeably different average unit costs.
${ }^{(4)}$ FY19 funding will award a production contract for Scorpion (first delivery date Oct 2021) and STARS (first delivery date Apr 2021) systems.
${ }^{(5)}$ FY20 funding will award production contract options for Scorpion (first delivery date Oct 2022) systems.
${ }^{(6)}$ FY21 funding will award production contract options for STARS (first delivery date Jul 2023) systems.

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| Exhibit P-21, Production Schedule: PB 2021 Air Force |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Date: February 2020 <br> Item Number / Title [DODIC]: <br> Wide Area Surveillance |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3080F / 03/4 |  |  |  |  |  |  |  |  |  |  | P-1 Line Item Number / Title: 834240 / Wide Area Surveillance (WAS) |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Cost Elements (Units in Each) |  |  |  |  |  | Fiscal Year 2020 |  |  |  |  |  |  |  |  |  |  |  | Fiscal Year 2021 |  |  |  |  |  |  |  |  |  |  |  | $\begin{aligned} & \text { B } \\ & \text { A } \\ & \text { L } \\ & \text { A } \\ & \text { C } \\ & \text { E } \end{aligned}$ |
|  |  |  |  | ACCEPT |  |  |  |  | Calendar Year 2020 |  |  |  |  |  |  |  |  |  |  |  | Calendar Year 2021 |  |  |  |  |  |  |  |  |  |
| O  <br> C F <br> C R <br> O $\#$ | FY | SERVICE | PROC QTY | $\begin{gathered} \text { TO } \\ \text { OCT } \\ 2019 \end{gathered}$ | $\begin{gathered} \text { DUE } \\ \text { AS OF } \\ 1 \text { OCT } \end{gathered}$ | O c T | N O v | D E C | J A N | $\stackrel{\mathrm{F}}{\mathrm{E}}$ | $\begin{aligned} & \mathrm{M} \\ & \mathrm{~A} \\ & \mathrm{R} \end{aligned}$ | A P R | M | J u N | J u L | A | S E P | $\begin{aligned} & \mathrm{o} \\ & \mathrm{c} \\ & \mathrm{~T} \end{aligned}$ | N | $\begin{aligned} & \mathrm{D} \\ & \mathrm{E} \\ & \mathrm{C} \end{aligned}$ | $\begin{aligned} & \mathrm{J} \\ & \text { A } \\ & \mathrm{N} \end{aligned}$ | $\underset{\mathrm{E}}{\mathrm{E}}$ | M A R | A P R | M A Y | J N | J u L | A U G | S E P |  |
| Prime |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1 | 2019 | AF | 11 | 0 | 11 |  |  |  |  |  | A - | - | - | - | - |  | - | - | - |  | - |  | - | 1 | - | - | - | - | - | 10 |
| 1 | 2020 | AF | 15 | 0 | 15 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | A - | - | 15 |
| 1 | 2021 | AF | 3 | 0 | 3 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | A - | - | - | 3 |
|  |  |  |  |  |  | O c T | N | D E c | J A N | $\stackrel{\mathrm{F}}{\mathrm{E}}$ | M A R | A <br> P <br> R | M | J U N | J | A | S | O c T | N | D E C | J A N | $\stackrel{\mathrm{F}}{\mathrm{E}}$ | M A R | A <br>  <br> P <br> R | M A Y | J | U | A | S E P |  |

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| Exhibit P-21, Production Schedule: PB 2021 Air Force |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Date: February 2020 <br> Item Number / Title [DODIC]: <br> Wide Area Surveillance |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3080F / 03 / 4 |  |  |  |  |  |  |  |  |  |  | P-1 Line Item Number / Title: 834240 / Wide Area Surveillance (WAS) |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Cost Elements(Units in Each) |  |  |  |  |  | Fiscal Year 2022 |  |  |  |  |  |  |  |  |  |  |  | Fiscal Year 2023 |  |  |  |  |  |  |  |  |  |  |  | $\begin{aligned} & \hline \text { B } \\ & \text { A } \\ & \text { L } \\ & \text { N } \\ & \text { C } \\ & \text { E } \end{aligned}$ |
|  |  |  |  | ACCEPT |  | Calendar Year 2022 |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Calendar Year 2023 |  |  |  |  |  |  |  |  |  |
|  | FY | SERVICE | $\stackrel{\text { PROC }}{ }$ | TO 1 <br> OCT <br> 2021 | $\begin{gathered} \mathrm{BAL} \\ \text { DUE } \\ \text { AS OF } \\ 1 \mathrm{OCT} \end{gathered}$ | $\begin{aligned} & \mathrm{O} \\ & \mathrm{C} \\ & \mathrm{~T} \end{aligned}$ | $\begin{aligned} & \mathrm{N} \\ & \mathrm{o} \\ & \mathrm{~V} \end{aligned}$ | $\begin{aligned} & \mathrm{D} \\ & \mathrm{E} \\ & \mathrm{C} \end{aligned}$ | J A N | $\begin{aligned} & F \\ & E \\ & E \end{aligned}$ | $\begin{aligned} & \text { M } \\ & A \\ & R \end{aligned}$ | A P R | M A Y | J | $\begin{aligned} & \mathrm{J} \\ & \mathrm{u} \\ & \mathrm{~L} \end{aligned}$ | A U G | S E P | $\begin{aligned} & \mathrm{O} \\ & \mathrm{C} \\ & \mathrm{~T} \end{aligned}$ | $\begin{aligned} & \mathrm{N} \\ & \mathrm{O} \\ & \mathrm{v} \end{aligned}$ | $\begin{aligned} & \mathrm{D} \\ & \mathrm{E} \\ & \mathrm{C} \end{aligned}$ | $\begin{aligned} & J \\ & \text { A } \\ & \text { N } \end{aligned}$ | $\begin{aligned} & F \\ & E \\ & E \\ & B \end{aligned}$ | M A R | A P R | M A Y | J | ${ }_{\text {J }}^{\text {J }}$ | A U G | $\begin{aligned} & \mathrm{s} \\ & \mathrm{E} \\ & \mathrm{P} \end{aligned}$ |  |
| Prime |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1 | 2019 | AF | 11 | 1 | 10 | 1 | 1 | 1 | - | 1 | 1 | 1 | - | 1 | 1 |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0 |
| 1 | 2020 | AF | 15 | 0 | 15 | - | - | - | - | - | - | - | - | - | - | - | - | 1 | 1 | 2 | 1 | 1 | 2 |  |  |  | 1 | 1 | 1 | 0 |
| 1 | 2021 | AF | 3 | 0 | 3 | - | - | - | - | - | - | - | - | - | - | - |  | - | - | - | - | - |  | - |  | - | 1 | - | - | 2 |
|  |  |  |  |  |  | - | $\begin{aligned} & \hline \mathrm{N} \\ & \mathrm{o} \\ & \mathrm{~V} \end{aligned}$ | $\begin{aligned} & \hline \mathrm{D} \\ & \mathrm{E} \\ & \mathrm{C} \end{aligned}$ | J A N | $\begin{aligned} & \hline F \\ & \hline \\ & E \\ & B \end{aligned}$ | $\begin{aligned} & \hline \text { M } \\ & A \\ & \mathrm{R} \end{aligned}$ | A P R | M A Y | J | J | A | S E P | $\begin{aligned} & \hline \mathrm{o} \\ & \mathrm{C} \\ & \mathrm{~T} \end{aligned}$ | $\begin{aligned} & \hline N \\ & \mathrm{~N} \\ & \mathrm{v} \end{aligned}$ | $\begin{aligned} & \hline \mathrm{D} \\ & \mathrm{E} \\ & \mathrm{C} \end{aligned}$ | $\begin{aligned} & \hline J \\ & \text { A } \\ & \text { N } \end{aligned}$ | $\begin{aligned} & \hline F \\ & \mathrm{E} \\ & \mathrm{~B} \end{aligned}$ | M A R | A <br> P <br> R | M A Y | ${ }_{\text {U }}{ }_{\text {U }}$ | J | A U G | S |  |

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| Exhibit P-21, Production Schedule: PB 2021 Air Force |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Date: February 2020 Item Number / Title [DODIC]: Wide Area Surveillance |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3080F / 03 / 4 |  |  |  |  |  |  |  |  |  |  | P-1 Line Item Number / Title: 834240 / Wide Area Surveillance (WAS) |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Cost Elements (Units in Each) |  |  |  |  |  | Fiscal Year 2024 |  |  |  |  |  |  |  |  |  |  |  | Fiscal Year 2025 |  |  |  |  |  |  |  |  |  |  |  | BALANCE |
|  |  |  |  | ACCEPT |  |  |  |  | Calendar Year 2024 |  |  |  |  |  |  |  |  |  |  |  | Calendar Year 2025 |  |  |  |  |  |  |  |  |  |
|  | FY | SERVICE | PROC QTY | $\begin{gathered} \text { TO } \\ \text { TOCT } \\ \text { OCT } \\ 2023 \end{gathered}$ | $\begin{gathered} \mathrm{BAL} \\ \mathrm{DUE} \\ \mathrm{ASOF} \\ 1 \mathrm{OCT} \end{gathered}$ | - | N | D E C | J A N | $\begin{aligned} & \mathrm{F} \\ & \mathrm{E} \\ & \mathrm{~B} \end{aligned}$ | $\begin{aligned} & \mathrm{M} \\ & \mathrm{~A} \\ & \mathrm{R} \end{aligned}$ | A <br>  <br> R <br> R | M | J N | $\begin{aligned} & \mathrm{J} \\ & \mathrm{u} \\ & \mathrm{~L} \end{aligned}$ | A U G | S E P | $\begin{aligned} & \mathrm{o} \\ & \mathrm{C} \\ & \mathrm{~T} \end{aligned}$ | $\begin{aligned} & \text { N } \\ & \text { O } \\ & \text { v } \end{aligned}$ | $\begin{aligned} & \mathrm{D} \\ & \mathrm{E} \\ & \mathrm{C} \end{aligned}$ | J A N | F E B | M <br>  <br> R | A $\mathbf{P}$ $\mathbf{R}$ | M A Y | J | J u L | A U G | S E P |  |
| Prime ${ }^{(2)}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1 | 2019 | AF | 11 | 11 | 0 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0 |
| 1 | 2020 | AF | 15 | 15 | 0 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0 |
| 1 | 2021 | AF | 3 | 1 | 2 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0 |
|  |  |  |  |  |  | - | N | D | J | F | M ${ }_{\text {M }}$ | A | M | J | J | A | S | ¢ | N | D | ${ }_{\text {A }}$ | F | ${ }_{\text {M }}^{\text {M }}$ | A | M ${ }_{\text {M }}$ | J | ${ }^{\text {J }}$ | A | S |  |
|  |  |  |  |  |  | T | v | c | N | в | R | R | Y | N | L | G | ${ }_{P}$ | ${ }_{\text {T }}$ | v | c | N | B | ${ }_{\text {R }}$ | R | Y | N | L | G | ${ }^{\text {P }}$ |  |

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| Exhibit P-21, Production Schedule: PB 2021 Air Force |  |  |  |  |  |  |  |  |  | Date: February 2020 |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3080F / 03 / 4 |  |  |  |  | P-1 Line Item Number / Title: <br> 834240 / Wide Area Surveillance (WAS) |  |  |  |  | Item Number / Title [DODIC]: Wide Area Surveillance |  |  |
| $\begin{array}{\|c} \hline \text { MFR } \\ \text { Ref } \\ \# \\ \hline \end{array}$ | Manufacturer Name - Location | Production Rates (Each / Month) |  |  | Procurement Leadtime (Months) |  |  |  |  |  |  |  |
|  |  |  |  | MAX For 2021 | Initial |  |  |  | Reorder |  |  |  |
|  |  | MSR For 2021 | 1-8-5 For 2021 |  | $\begin{gathered} \text { ALT } \\ \text { Prior to Oct } 1 \end{gathered}$ | $\begin{gathered} \text { ALT } \\ \text { After Oct } 1 \end{gathered}$ | 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 | Multiple/Various ${ }^{(3)}$ - Various | 1 | 4 | 5 | 0 | 0 | 0 | 0 | 0 | 10 | 24 | 34 |

## Remarks:

Prime cost elements include multiple contracts for the STARS and Scorpion systems. For each individual contract award, the WAS program delivery schedule does not exceed 12 months from delivery of the first unit.
"A" in the Delivery Schedule indicates the Contract Award Date

 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).

## Footnotes:



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Exhibit P-40, Budget Line Item Justification: PB 2021 Air Force
Date: February 2020
Appropriation / Budget Activity / Budget Sub Activity:
3080F: Other Procurement, Air Force / BA 03: Electronics and Telecommunications
Equip / BSA 4: Spcl Comm-Electronics Projects

P-1 Line Item Number / Title:
834320 / C3 Countermeasures

| ID Code (A=Service Ready, B=Not Service Ready): A | Program Elements for Code B Items: N/A | Other Related Program Elements: 0207439F, 0208087F |
| :--- | :--- | :--- |

Line Item MDAP/MAIS Code: N/A

| Resource Summary | Prior <br> Years | FY 2019 | FY 2020 | $\text { FY } 2021$ Base | $\begin{gathered} \text { FY } 2021 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \text { FY } 2021 \\ \text { Total } \end{gathered}$ | FY 2022 | FY 2023 | FY 2024 | FY 2025 | To Complete | Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Procurement Quantity (Units in Each) | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Cost (\$ in Millions) | - | 30.001 | 25.036 | 105.584 | - | 105.584 | 143.426 | 132.165 | 192.675 | 97.565 | - | 726.452 |
| Less PY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Net Procurement (P-1) (\$ in Millions) | - | 30.001 | 25.036 | 105.584 | - | 105.584 | 143.426 | 132.165 | 192.675 | 97.565 | - | 726.452 |
| Plus CY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Total Obligation Authority (\$ in Millions) | - | 30.001 | 25.036 | 105.584 | - | 105.584 | 143.426 | 132.165 | 192.675 | 97.565 | - | 726.452 |
| (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:

PE 0207439F Electronic Warfare Integrated Reprogramming (EWIR) - P-40A
DISTRIBUTED MISSION OPERATIONS AND THREAT CHANGE ANALYSIS: Conducted by the 453rd Electronic Warfare Squadron (453 EWS), EWIR provides analytical capabilities and reachback support for DoD acquisition , planning and mission execution activities. These capabilities ensure electronic warfare (EW) systems and integrated combat platforms correctly recognize and respond to enemy, friendly and noncombatant systems operating within the electromagnetic environment. The effort includes funds used to procure specialized information technology systems used to identify electromagnetic spectrum emitter changes that impact combat defensive and electronic warfare systems and to conduct detailed analyses in support of operational mission planning, tactics, techniques and procedures (TTP) development, acquisition and test \& evaluation. These analyses provide the means to understand the performance of their systems in hostile environments, directly impacting the survivability of combat-coded USAF aircraft and aircrews. Funding for this exhibit contained in PE 0207439F. Beginning in Fiscal Year 2020, Other Procurement funding realigned to WSC 83410, General Information Technology, for clarity in reporting.

PE 0207573F National Technical Nuclear Forensics - P-40A
Continues efforts previously funded by OSD for Prompt Diagnostics. Procures terrestrial-based sensors and communications for prompt diagnostics, collection, analysis, and evaluation of a nuclear detonation. Funding also includes procurement of technical data and any required initial system support. Funding for this exhibit contained in PE0207573F. Funding was placed in BPAC 834010 starting in FY20.

PE 0207588F Air Base Ground Defense - P-40A
Ground based air defense capability designed to counter current and emerging threats to forward operation locations. Contact AF A3XY 703-614-0402 or A5RE 703-697-9393.
PE 0208064F OPERATIONAL HQ - CYBER - P-5
C3MS HARDWARE AND COMMERCIAL OFF-THE-SHELF SOFTWARE: FY21 funding completes hardware/software procurement to automate data exchange between Secure Internet Protocol Router Network (SIPRNet) and Joint Worldwide Intelligence Communications System (JWICS) and provide an environmental abnormality alerting capability, migrate SIPRNet weapon system applications to the cloud (cloudbased Alternate Operating Location (AOL)), complete any hardware/software procurements necessary to support cyber situational awareness/battle management development, and provides for Program
Management Administration (PMA) support.
PE 0208087F Distributed Cyber Warfare Operations - P-5
Provides for the innovation, test, support and deployment of Cyberspace solutions in the form of material and non-material Cyberspace network attack tools and exploits for USAF Offensive Cyberspace

## Appropriation / Budget Activity / Budget Sub Activity:

3080F: Other Procurement, Air Force / BA 03: Electronics and Telecommunications Equip / BSA 4: Spcl Comm-Electronics Projects
ID Code (A=Service Ready, B=Not Service Ready): A
Program Elements for Code B Items: N/A
P-1 Line Item Number / Title:
834320 / C3 Countermeasures

Other Related Program Elements: 0207439F, 0208087F

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


 USAF operated cyber test and training range, operated by the 346th Test Squadron under the 688th Cyber Wing.

PE 0208088F AF Defensive Cyberspace Operations - P-5
PE 0208088F AF DEFENSIVE CYBERSPACE OPERATIONS (DCO)


 subsystems (MIP, DIP, GIP, IOP-FAK). Reporting is intended to better articulate the quantities of the CVA/H WS being procured.



 requirements. FY21 funding is essential in sustaining and maintaining the CDA Weapon System to combat the rapidly evolving cyber threats.


 authorities.

Beginning in FY21 funding was realigned from WSC 831010 Comsec Equipment and 835080 AFNET for clarity in reporting.
Funding for this exhibit contained in PE 0208088F.
PE 0208099F Unified Platform (UP) - P-40A
UNIFIED PLATFORM (UP) PE 0208099F - P-40A


 835080 AFNET to WSC 834320 C3 Countermeasures for clarity in reporting. Funding in this exhibit contained in PE 0208099F

PE 0208288F Intel Data Applications - P-40A
 Tool Development.
 installations. It also provides limited criticality assessments of C3 elements.

## Appropriation / Budget Activity / Budget Sub Activity:

3080F: Other Procurement, Air Force / BA 03: Electronics and Telecommunications Equip / BSA 4: Spcl Comm-Electronics Projects
ID Code (A=Service Ready, B=Not Service Ready): A
Program Elements for Code B Items: N/A
Other Related Program Elements: 0207439F, 0208087F

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



 exploitation and dissemination of intercepted ELINT from US and allied systems.
 sensors/platforms were originally designed.

PE 0306250F Cyber Operations Technology Development - P-5
Cyber Operations Technology Development PE 0306250F - P-5


 the effort are classified and will be provided on a need to know basis. For further information please contact USCYBERCOM, 443-479-2602.

PE 0804762F Cyberspace Training - P-40A



 infrastructures and enclaves, operated by the USAF test, training, and range squadrons under Air Combat Command. Funding for this exhibit contained in PE 0404762.

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

## Appropriation / Budget Activity / Budget Sub Activity: <br> 3080F: Other Procurement, Air Force / BA 03: Electronics and Telecommunications

P-1 Line Item Number / Title: Equip / BSA 4: Spcl Comm-Electronics Projects

## 834320 / C3 Countermeasures

| ID Code (A=Service Ready, B=Not Service Ready): A | Program Elements for Code B Items: N/A | Other Related Program Elements: 0207439F, 0208087F |
| :---: | :---: | :---: |

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

| Exhibits Schedule |  |  |  |  | Prior Years | FY 2019 | FY 2020 | FY 2021 Base | FY 2021 OCO | FY 2021 Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Exhibit Type | Title* | Subexhibits | $\begin{array}{\|l\|l\|} \hline \text { ID } \\ \text { CD } \end{array}$ | MDAP/ MAIS Code | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) |
| P-40a | National Technical Nuclear Forensics |  |  |  | - 1 - | - 16.070 | - 10.000 | - 10.000 | - 1 - | - 10.000 |
| P-5 | OPERATIONAL HQ - CYBER |  | A |  | - 1 - | - 10.000 | - 10.000 | - 14.794 | - 1 - | - 14.794 |
| P-5 | Distributed Cyber Warfare Operations |  | A |  | - 1 - | $7 / 23.931$ | 9/25.036 | 18/18.782 | - 1 - | 18/18.782 |
| P-5 | AF Defensive Cyberspace Operations |  | A |  | - 1 - | - 10.000 | - 10.000 | - 160.480 | - 1 - | - 160.480 |
| P-40a | Unified Platform (UP) |  |  |  | - 1 - | - 1 - | 1 | - 14.956 | 1 | - 14.956 |
| P-5 | Cyber Operations Technology Development |  | A |  | - 1 - | - 10.000 | - 10.000 | - /11.986 | - 1 - | - /11.986 |
| P-40a | Cyberspace Training |  |  |  | 1 | 1 | 1 | - 14.586 | 1 | - 14.586 |
| P-40 | Total Gross/Weapon System Cost |  |  |  | 1 | - 130.001 | - 125.036 | - /105.584 | - 1- | - /105.584 |

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

## Justification:

This program, PE 0306250F C3CM P-5, is a new start.
PE 0208064F OPERATIONAL HQ - CYBER - P-5
"PE 0208064F AIR FORCE Operational HQ-Cyber/Cyberspace Command and Control Mission System (C3MS)

 Administration (PMA) support.

Funding for this exhibit contained in PE 0208064F
PE 0208087F Distributed Cyber Warfare Operations - P-5
 equipment.
 provided on a need-to-know basis. For further information, please contact AF/A2.

PE 0208088F AF Defensive Cyberspace Operations - P-5
PE 0208088F AF DEFENSIVE CYBERSPACE OPERATIONS


 FAK). this is to better articulate the quantities of the CVA/H weapon system being procured.

## Appropriation / Budget Activity / Budget Sub Activity:

3080F: Other Procurement, Air Force / BA 03: Electronics and Telecommunications Equip / BSA 4: Spcl Comm-Electronics Projects

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

## P-1 Line Item Number / Title:

834320 / C3 Countermeasures

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

Other Related Program Elements: 0207439F, 0208087F

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


 (IOT) devices, exploring n-day vulnerabilities in AF infrastructure. Beginning in FY21 the CSAP program will merge into the Air Force Cyberspace Defense Weapon System (ACD)baseline.

 installations, early systems development for Data Loss Prevention, along with other CDA sub-system components and pathfinder efforts.


 WS being procured."





 and hardware/software upgrades to move toward the JIE.

PE 0208099F Unified Platform (UP) - P-40A
UNIFIED PLATFORM (UP) PE 0208099F - P-40A

 from WSC 835080 AFNET to WSC 834320 C3 Countermeasures for clarity in reporting.

PE 0306250F Cyber Operations Technology Development - P-5
Cyber Operations Technology Development PE 0306250F - P-5
 classified and will be provided on a need to know basis. For further information please contact, 443-479-2602.

PE 0804762F Cyberspace Training - P-40A

 required pipeline of approximately 1770 students/year. Includes essential training infrastructure suite consisting of switches, servers, storage and software licenses for 6 virtual classrooms.

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| Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2021 Air Force |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Date: February 2020 <br> Aggregated Items Title: <br> National Technical Nuclear Forensics |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3080F / 03 / 4 |  |  |  |  |  |  |  | P-1 Line Item Number / Title: 834320 / C3 Countermeasures |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  | ior Yea |  | FY 2019 |  |  | FY 2020 |  |  | FY 2021 Base |  |  | FY 2021 OCO |  |  | FY 2021 Total |  |  |
| Item Number / Title [DODIC] | $\begin{aligned} & \text { ID } \\ & \text { CD } \end{aligned}$ | mDAP/ <br> MAIS <br> Code | Unit Cost (\$ M) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost (\$ M) | Unit Cost (\$ M) | $\underset{\text { (Each) }}{\text { Qty }}$ | Total Cost (\$ M) | Unit Cost (\$ M) | Qty (Each) | 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) |
| National Technical Nuclear Forensics |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Nuclear Forensics Prompt Diagnostics | A |  | - | - | - | - | - | 6.070 | - | - | 0.000 | - | - | 0.000 | - | - | - | - | - | 0.000 |
| Subtotal: National Technical Nuclear Forensics |  |  | - | - | - | - |  | 6.070 | - | - | 0.000 | - | - | 0.000 | - | - | - | - | - | 0.000 |
| Total |  |  | - | - | - | - | - | 6.070 | - | - | 0.000 | - | - | 0.000 | - | - | - | - | - | 0.000 |
| Note: Subtotals or To <br> Remarks: <br> Continues efforts pre procurement of techn | als in <br> iously cal da | this Ex <br> funde ata and | xhibit P-40a <br> d by OSD fo d any required | may not b <br> Prompt initial sy | xact or <br> gnostics m supp | um exactly, <br> Procures te <br> t. Funding w | e to rou <br> estrial-b <br> placed | unding. <br> based sensors in BPAC 834 | sand commu 4010 starting | ications <br> in FY20. | prompt di | iagnostics, | lection, | lysis, and | evaluation | a nuclea | detonatio | Funding als | include |  |

Exhibit P-5, Cost Analysis: PB 2021 Air Force

## Appropriation / Budget Activity / Budget Sub Activity:

 3080F / 03 / 4
## P-1 Line Item Number / Title: 834320 / C3 Countermeasures

Date: February 2020
Item Number / Title [DODIC]:
OPERATIONAL HQ - CYBER

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


## Remarks:

Beginning in Fiscal Year 2021 Other Procurement Funding realigned from WSC 831010 Comm Security Equipment (COMSEC) to WSC 834320 C3 Countermeasures for clarity in reporting.

Exhibit P-5, Cost Analysis: PB 2021 Air Force

## Appropriation / Budget Activity / Budget Sub Activity

 3080F / 03/4
## P-1 Line Item Number / Title: 834320 / C3 Countermeasures

Date: February 2020

## Item Number / Title [DODIC]:

Distributed Cyber Warfare Operations

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

| Resource Summary | Prior Years | FY 2019 | FY 2020 | FY 2021 Base | FY 2021 OCO | FY 2021 Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Procurement Quantity (Units in Each) | - | 7 | 9 | 18 | - | 18 |
| Gross/Weapon System Cost (\$ in Millions) | - | 23.931 | 25.036 | 18.782 | - | 18.782 |
| Less PY Advance Procurement (\$ in Millions) | - | - | - | - | - | - |
| Net Procurement (P-1) (\$ in Millions) | - | 23.931 | 25.036 | 18.782 | - | 18.782 |
| Plus CY Advance Procurement (\$ in Millions) | - | - | - | - | - | - |
| Total Obligation Authority (\$ in Millions) | - | 23.931 | 25.036 | 18.782 | - | 18.782 |
| (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) | - | 3.419 | 2.782 | 1.043 | - | 1.043 |


| Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding. |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Prior Years |  |  | FY 2019 |  |  | FY 2020 |  |  | FY 2021 Base |  |  | FY 2021 OCO |  |  | FY 2021 Total |  |  |
| Cost Elements | Unit Cost (\$ M) | Qty (Each) | 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) | 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) |

Hardware - Distributed Cyber Warfare Operations Cost

## Recurring Cost

| Cyber Mission <br> Platform (CMP) <br> System | - | - | - | 1.481 | 1 | 1.481 | 1.400 | 2 | 2.800 | 1.367 | 5 | 6.835 | - | - | - | 1.367 | 5 | 6.835 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| HYDRA (aka Ronin) | - | - | - | 0.050 | 1 | 0.050 | 0.050 | 1 | 0.050 | 0.638 | 4 | 2.552 | - | - | - | 0.638 | 4 | 2.552 |
| Telephony Network Operations (TNO) | - | - | - | - | - | - | 0.370 | 1 | 0.370 | 1.000 | 1 | 1.000 | - | - | - | 1.000 | 1 | 1.000 |
| Subtotal: Recurring Cost | - | - | - | - | - | 1.531 | - | - | 3.220 | - | - | 10.387 | - | - | - | - | - | 10.387 |


| Non Recurring Cost |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Cyber Unique Equipment | - | - | - | - | - | 9.378 | - | - |
| Cyber Mission Platform (CMP) System | - | - | - | - | - | 0.000 | - | - |
| Telephony Network Operations (TNO) | - | - | - | - | - | 1.990 | - | - |
| Testing and Training Equipment | - | - | - | - | - | 3.773 | - | - |
| Subtotal: Non Recurring Cost | - | - | - | - | - | 15.141 | - | - |
| Subtotal: Hardware Distributed Cyber Warfare Operations Cost | - | - | - | - | - | 16.672 | - | - |
| Software - Distributed Cyber Warfare Operations Cost |  |  |  |  |  |  |  |  |


| 10.760 | - | - |  |
| ---: | ---: | ---: | ---: |
| 0.000 | - | - |  |
| 0.000 | - | - | - |
| 1.713 | - | - | - |
| 12.473 | - | - | - |
| 15.693 |  |  |  |


| 0.000 | - | - | - | - | - | 0.000 |
| ---: | ---: | ---: | ---: | ---: | ---: | :--- |
| 1.198 | - | - | - | - | - | 1.198 |
| 0.000 | - | - | - | - | - | 0.000 |
| 0.000 | - | - | - | - | - | 0.000 |
| 1.198 | - | - | - | - | - | 1.198 |
| 11.585 | - | - | - | - | - | 11.585 |

[^1]UNCLASSIFIED

\begin{tabular}{|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|}
\hline \multicolumn{14}{|l|}{Exhibit P-5, Cost Analysis: PB 2021 Air Force} \& \multicolumn{5}{|l|}{Date: February 2020} \\
\hline \multicolumn{6}{|l|}{Appropriation / Budget Activity / Budget Sub Activity: 3080F / 03 / 4} \& \multicolumn{8}{|l|}{P-1 Line Item Number / Title: 834320 / C3 Countermeasures} \& \multicolumn{5}{|l|}{\begin{tabular}{l}
Item Number / Title [DODIC]: \\
Distributed Cyber Warfare Operations
\end{tabular}} \\
\hline \multicolumn{10}{|l|}{ID Code (A=Service Ready, B=Not Service Ready) : A} \& \multicolumn{9}{|l|}{MDAP/MAIS Code:} \\
\hline \multicolumn{19}{|l|}{Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.} \\
\hline \& \multicolumn{3}{|c|}{Prior Years} \& \multicolumn{3}{|c|}{FY 2019} \& \multicolumn{3}{|c|}{FY 2020} \& \multicolumn{3}{|c|}{FY 2021 Base} \& \multicolumn{3}{|c|}{FY 2021 OCO} \& \multicolumn{3}{|c|}{FY 2021 Total} \\
\hline Cost Elements \& 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) \& \[

$$
\begin{gathered}
\text { Qty } \\
\text { (Each) }
\end{gathered}
$$

\] \& \[

$$
\begin{aligned}
& \text { Total } \\
& \text { Cost }
\end{aligned}
$$
\]

(\$M) <br>
\hline Payloads \& - \& - \& - \& 0.781 \& 5 \& 3.907 \& 1.100 \& 5 \& 5.500 \& 0.639 \& 4 \& 2.557 \& - \& - \& - \& 0.639 \& 4 \& 2.557 <br>
\hline Telephony Network Operations (TNO) \& - \& - \& - \& - \& - \& - \& - \& - \& - \& 0.400 \& 1 \& 0.400 \& - \& - \& - \& 0.400 \& 1 \& 0.400 <br>
\hline HYDRA (aka Ronin) \& - \& \& \& - \& - \& - \& - \& - \& - \& 0.510 \& 2 \& 1.020 \& - \& - \& \& 0.510 \& 2 \& 1.020 <br>
\hline Subtotal: Recurring Cost \& - \& - \& - \& - \& - \& 3.907 \& - \& - \& 5.500 \& - \& - \& 3.977 \& - \& - \& - \& - \& - \& 3.977 <br>
\hline Subtotal: Software Distributed Cyber Warfare Operations Cost \& - \& - \& - \& - \& - \& 3.907 \& - \& - \& 5.500 \& - \& - \& 3.977 \& - \& - \& - \& - \& - \& 3.977 <br>
\hline \multicolumn{19}{|l|}{Support - Distributed Cyber Warfare Operations Cost} <br>

\hline | PMA Contractor Services |
| :--- |
| - CMP | \& - \& . \& - \& - \& - \& 1.831 \& - \& - \& 0.719 \& - \& - \& 1.470 \& - \& - \& - \& - \& - \& 1.470 <br>

\hline PMA Contractor Services - HYDRA \& - \& - \& - \& - \& - \& 0.000 \& - \& - \& 0.450 \& - \& - \& 0.000 \& - \& - \& - \& - \& - \& 0.000 <br>
\hline PMA Contractor Services - TNO \& - \& - \& - \& - \& - \& 0.821 \& - \& - \& 0.550 \& - \& - \& 0.000 \& - \& - \& - \& - \& - \& 0.000 <br>
\hline PMA Contractor Services - Payloads \& - \& - \& - \& - \& - \& 0.700 \& - \& - \& 2.124 \& - \& - \& 1.750 \& - \& - \& - \& - \& - \& 1.750 <br>
\hline Subtotal: Support Distributed Cyber Warfare Operations Cost \& - \& - \& - \& - \& - \& 3.352 \& - \& - \& 3.843 \& - \& - \& 3.220 \& - \& - \& - \& - \& - \& 3.220 <br>
\hline Gross/Weapon System Cost \& - \& - \& - \& 3.419 \& 7 \& 23.931 \& 2.782 \& 9 \& 25.036 \& 1.043 \& 18 \& 18.782 \& - \& - \& - \& 1.043 \& 18 \& 18.782 <br>
\hline
\end{tabular}

## Remarks:

HYDRA (aka Ronin) provides unique access/connectivity and required infrastructure across multiple spectrums in support of Offensive Cyber Operations.

Exhibit P-5, Cost Analysis: PB 2021 Air Force

## Appropriation / Budget Activity / Budget Sub Activity

 3080F / 03 / 4Date: February 2020

## Item Number / Title [DODIC]:

AF Defensive Cyberspace Operations

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

| MDAP/MAIS Code: |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Resource Summary | Prior Years | FY 2019 | FY 2020 | FY 2021 Base | FY 2021 OCO | FY 2021 Total |
| Procurement Quantity (Units in Each) | - | - | - | - | - | - |
| Gross/Weapon System Cost (\$ in Millions) | - | 0.000 | 0.000 | 60.480 | - | 60.480 |
| Less PY Advance Procurement (\$ in Millions) | - | - | - | - | - | - |
| Net Procurement (P-1) (\$ in Millions) | - | 0.000 | 0.000 | 60.480 | - | 60.480 |
| Plus CY Advance Procurement (\$ in Millions) | - | - | - | - | - | - |
| Total Obligation Authority (\$ in Millions) | - | 0.000 | 0.000 | 60.480 | - | 60.480 |
| (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 2019 |  |  | FY 2020 |  |  | FY 2021 Base |  |  | FY 2021 OCO |  |  | FY 2021 Total |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Cost Elements | 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 <br> (\$ M) | 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 <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 - AF Defensive Cyberspace Operations Cost
Recurring Cost

| 1. Cyberspace Vulnerability Assessment/Hunter (CVA/H) | - | - | - | - | - | - | - | - | - | 0.052 | 475 | 24.676 | - | - | - | 0.052 | 475 | 24.676 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 2. Computer Security Assistance Program (CSAP) | - | - | - | - | - | - | - | - | - | 2.485 | 1 | 2.485 | - | - | - | 2.485 | 1 | 2.485 |
| 3. Cyberspace Defense Analysis (CDA) | - | - | - | - | - | - | - | - | - | 1.699 | 1 | 1.699 | - | - | - | 1.699 | 1 | 1.699 |
| 4. Weapon System Cyber Response (WSCR) | - | - | - | - | - | - | - | - | - | 0.052 | 150 | 7.760 | - | - | - | 0.052 | 150 | 7.760 |
| 5. Air Force Cyber Defense (ACD) | - | - | - | - | - | - | - | - | - | 23.860 | 1 | 23.860 | - | - | - | 23.860 | 1 | 23.860 |
| Subtotal: Recurring Cost | - | - | - | - | - | - | - | - | - | - | - | 60.480 | - | - | - | - | - | 60.480 |
| Subtotal: Hardware - AF Defensive Cyberspace Operations Cost | - | - | - | - | - | - | - | - | - | - | - | 60.480 | - | - | - | - | - | 60.480 |
| Gross/Weapon System Cost | - | - | - | - | - | 0.000 | - | - | 0.000 | - | - | 60.480 | - | - | - | - | - | 60.480 |

## Remarks:

| Exhibit P-5, Cost Analysis: PB 2021 Air Force |  | Date: February 2020 |
| :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3080F / 03 / 4 | P-1 Line Item Number / Title: 834320 / C3 Countermeasures | Item Number / Title [DODIC]: AF Defensive Cyberspace Operations |
| ID Code (A=Service Ready, B=Not Service Ready) : A | MD | MDAP/MAIS Code: |

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| Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2021 Air Force $\quad$ Da |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Date: February 2020 <br> Aggregated Items Title: Unified Platform (UP) |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3080F / 03 / 4 |  |  |  |  |  |  |  | P-1 Line Item Number / Title: 834320 / C3 Countermeasures |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  | ior Yea |  | FY 2019 |  |  | FY 2020 |  |  | FY 2021 Base |  |  | FY 2021 OCO |  |  | FY 2021 Total |  |  |
| Item Number / Title [DODIC] | $\begin{aligned} & \mathrm{ID} \\ & \mathrm{CD} \end{aligned}$ | $\begin{aligned} & \text { MDAPI } \\ & \text { MAIS } \\ & \text { code } \end{aligned}$ | 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) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | Total Cost <br> (\$ M) | Unit Cost (\$M) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | Total Cost <br> (\$ M) |
| Unified Platform (UP) |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Unified Platform (UP) | A |  | - | - | - | - | - | - | - | - | - | 2.478 | 2 | 4.956 | - | - | - | 2.478 | 2 | 4.956 |
| Subtotal: Unified Platform (UP) |  |  | - | - | - | - | - | - | - | - | - | - | - | 4.956 | - | - | - | - | - | 4.956 |
| Total |  |  | - | - | - | - | - | - | - | - | - | - | - | 4.956 | - | - | - | - | - | 4.956 |

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

UNCLASSIFIED


UNCLASSIFIED

| Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2021 Air Force |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Date: February 2020 <br> Aggregated Items Title: Cyberspace Training |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3080F / 03 / 4 |  |  |  |  |  |  |  | P-1 Line Item Number / Title: 834320 / C3 Countermeasures |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  | $\begin{gathered} \text { MDAP/ } \\ \text { MAIS } \\ \text { Code } \end{gathered}$ | Prior Years |  |  | FY 2019 |  |  | FY 2020 |  |  | FY 2021 Base |  |  | FY 2021 OCO |  |  | FY 2021 Total |  |  |
| Item Number / <br> Title [DODIC] | $\begin{aligned} & \text { ID } \\ & \text { CD } \end{aligned}$ |  | 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 (\$ M) | Unit Cost (\$ M) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost (\$ M) |
| Cyber Training |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Cyber Multi-Domain Architecture | A |  | - | - | - | - | - | - | - | - | - | 0.918 | 1 | 0.918 | - | - | - | 0.918 | 1 | 0.918 |
| Cyber Test and Training | A |  | - | - | - | - | - | - | - | - | - | 1.834 | 1 | 1.834 | - | - | - | 1.834 | 1 | 1.834 |
| Cyber IQT-MQT | A |  | - | - | - | - | - | - | - | - | - | 1.834 | 1 | 1.834 | - | - | - | 1.834 | 1 | 1.834 |
| Subtotal: Cyber Training |  |  | - | - | - | - | - | - | - | - | - | - | - | 4.586 | - | - | - | - | - | 4.586 |
| Total |  |  | - | - | - | - | - | - | - | - | - | - | - | 4.586 | - | - | - | - | - | 4.586 |

Note: Subtotals or Totals in this Exhibit P-40a may not be exact or sum exactly, due to rounding.
Remarks:
Note: New PE beginning in FY21. Funding realigned from 0208087F Distributed Cyber Warfare Operations to clarify spending on Cyber Training systems.

Exhibit P-40, Budget Line Item Justification: PB 2021 Air Force
Date: February 2020

| Appropriation / Budget Activity / Budget Sub Activity: |
| :--- |
| 3080F: Other Procurement, Air Force / BA 03: Electronics and Telecommunications |
| Equip / BSA 4: Spcl Comm-Electronics Projects |

## P-1 Line Item Number / Title: 834430 / GCSS-AF Fos

 Equip / BSA 4: Spcl Comm-Electronics Projects| ID Code (A=Service Ready, B=Not Service Ready): A | Program Elements for Code B Items: N/A | Other Related Program Elements: 0708012F, 0708610F |
| :---: | :---: | :---: |

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

| Resource Summary | Prior <br> Years | FY 2019 | FY 2020 | $\text { FY } 2021$ <br> Base | $\begin{gathered} \text { FY } 2021 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \text { FY } 2021 \\ \text { Total } \end{gathered}$ | FY 2022 | FY 2023 | FY 2024 | FY 2025 | To Complete | Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Procurement Quantity (Units in Each) | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Cost (\$ in Millions) | - | 0.483 | 11.226 | 0.000 | - | 0.000 | 11.195 | 3.918 | 3.633 | 3.700 | - | 34.155 |
| Less PY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Net Procurement (P-1) (\$ in Millions) | - | 0.483 | 11.226 | 0.000 | - | 0.000 | 11.195 | 3.918 | 3.633 | 3.700 | - | 34.155 |
| Plus CY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Total Obligation Authority (\$ in Millions) | - | 0.483 | 11.226 | 0.000 | - | 0.000 | 11.195 | 3.918 | 3.633 | 3.700 | - | 34.155 |
| (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:

PE 0708610F LOGISTICS INFORMATION TECHNOLOGY (LOGIT)
The Air Force logistics enterprise is comprised of multiple overarching functional areas, end-to-end supply chain support, base supply inventories, and predictive analysis and forecasting. Enterprise Logistics Systems deliver integrated logistics information driving war winning decisions by shaping, acquiring, and sustaining warfighting IT capabilities and mission support. OPAF funding will be used for capital equipment replacement to include servers and will also be used to purchase multi-year software licenses.

Systems contained in these business areas include, but are not limited to: Integrated Maintenance Data System (IMDS), Reliability and Maintainability Information System (REMIS), Reliability, Availability, Maintainability for Pods (RAMPOD), Integrated Logistics System-Supply (ILS-S), Stock Control System (SCS), Enhanced Technical Information Management System (ETIMS), Product Lifecycle Management (PLM), Supply Capability Initiative (SCI), and Item Master Logistics Capability Initiative (IMLCI).

Funding for this exhibit contained in PE 0708610F
The FY 21 funding request was reduced by $\$ .391 \mathrm{M}$ to account for the availability of prior year execution balances.

## Justification:

PE 0708610F LOGISTICS INFORMATION TECHNOLOGY (LOGIT)
The FY21 funding request was reduced by $\$ .391 \mathrm{M}$ to account for the availability of prior year execution balances.

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Exhibit P-40, Budget Line Item Justification: PB 2021 Air Force
Date: February 2020

## Appropriation / Budget Activity / Budget Sub Activity:

3080F: Other Procurement, Air Force / BA 03: Electronics and Telecommunications Equip / BSA 4: Spcl Comm-Electronics Projects

| ID Code (A=Service Ready, B=Not Service Ready): A | Program Elements for Code B Items: N/A | Other Related Program Elements: 0901554F |
| :--- | :--- | :--- | :--- |

Line Item MDAP/MAIS Code: N87

| Resource Summary | Prior <br> Years | FY 2019 | FY 2020 | $\begin{gathered} \text { FY } 2021 \\ \text { Base } \end{gathered}$ | $\begin{gathered} \text { FY } 2021 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \text { FY } 2021 \\ \text { Total } \end{gathered}$ | FY 2022 | FY 2023 | FY 2024 | FY 2025 | To Complete | Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Procurement Quantity (Units in Each) | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Cost (\$ in Millions) | 14.040 | 0.962 | 1.905 | 0.899 | - | 0.899 | 3.104 | 3.158 | 3.215 | 3.274 | 0.000 | 30.557 |
| Less PY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Net Procurement (P-1) (\$ in Millions) | 14.040 | 0.962 | 1.905 | 0.899 | - | 0.899 | 3.104 | 3.158 | 3.215 | 3.274 | 0.000 | 30.557 |
| Plus CY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Total Obligation Authority (\$ in Millions) | 14.040 | 0.962 | 1.905 | 0.899 | - | 0.899 | 3.104 | 3.158 | 3.215 | 3.274 | 0.000 | 30.557 |
| (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 Dollars) | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Unit Cost (\$ in Dollars) | - | - | - | - | - | - | - | - | - | - | - | - |

## Description:




 Air Force compliance with the Financial Improvement and Audit Readiness (FIAR) requirement in the 2010 National Defense Authorization Act (NDAA).

DEAMS user deployments include:

- Air Mobility Command (AMC) without Transportation Working Capital Funds (TWCF)
- AMC with TWCF, in conjunction with Defense Finance and Accounting Service (DFAS) Rome
- Air Combat Command (ACC) and Air Force Global Strike Command (AFGSC)

Operations Command (AFSOC), U.S. Air Force Academy (USAFA), Pacific Air Forces (PACAF), and DFAS Japan
- U.S. Air Forces in Europe (USAFE), DFAS Europe, Air Education and Training Command (AETC), and Joint Base San Antonio
- Air Force Material Command (AFMC), and Air Force Space Command (AFSPC)
- Remaining DFAS locations and all other GSUs


 ATP date is August 2020 and Capability Support Authority to Proceed (CS ATP) date is February 2021.

DEAMS was designated as an Agile Pilot program in the FY19 NDAA.

| Exhibit P-40, Budget Line Item Justification: PB 2021 Air Force | Date: February 2020 |
| :--- | :--- | :--- |
| Appropriation / Budget Activity / Budget Sub Activity: | P-1 Line Item Number / Title: |
| 3080F: Other Procurement, Air Force / BA 03: Electronics and Telecommunications | 834470 / Defense Enterprise Accounting \& Mgt Sys |
| Equip / BSA 4: Spcl Comm-Electronics Projects |  |


| ID Code (A=Service Ready, B=Not Service Ready): A | Program Elements for Code B Items: N/A | Other Related Program Elements: 0901554F |
| :--- | :--- | :--- |

## Line Item MDAP/MAIS Code: N87

DEAMS will require software user licenses to support system deployments as well as potential software and hardware requirements needed to manage, execute, and deliver DEAMS system capability including necessary system upgrades.

This requirement (or modification) supports performance of a full financial audit as required by title 10 U.S.C. Chapter 9A, Sec 240-D
This program element may include necessary civilian pay expenses required to manage, execute, and deliver DEAMS system capability.
Procurement funding prior to FY19 for DEAMS was in PE 0901538F, Financial Management Information Systems Development (FMISD). Funding for this exhibit contained in PE0901554F.
 to each research, development, test and evaluation and procurement account will be allocated proportionally from all programs, projects, or activities under such account.

## Justification:

Funds are used to procure software user licenses and other potential hardware and software using multiple contracts and various vendors. Software license counts are estimates and may vary at actual execution based on system needs.

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

Exhibit P-40, Budget Line Item Justification: PB 2021 Air Force
Date: February 2020

## P-1 Line Item Number / Title: <br> 834480 / Maintenance Repair \& Overhaul Initiative

## Appropriation / Budget Activity / Budget Sub Activity: <br> 3080F: Other Procurement, Air Force / BA 03: Electronics and Telecommunications

 Equip / BSA 4: Spcl Comm-Electronics Projects|  | ID Code (A=Service Ready, B=Not Service Ready): B | Program Elements for Code B Items: 0708055F | Other Related Program Elements: N/A |
| :--- | :--- | :--- | :--- |

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

| Resource Summary | Prior <br> Years | FY 2019 | FY 2020 | $\text { FY } 2021$ <br> Base | $\begin{gathered} \text { FY } 2021 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \text { FY } 2021 \\ \text { Total } \end{gathered}$ | FY 2022 | FY 2023 | FY 2024 | FY 2025 | To Complete | Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Procurement Quantity (Units in Each) | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Cost (\$ in Millions) | - | 12.207 | 1.912 | 0.000 | - | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | - | 14.119 |
| Less PY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Net Procurement (P-1) (\$ in Millions) | - | 12.207 | 1.912 | 0.000 | - | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | - | 14.119 |
| Plus CY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Total Obligation Authority (\$ in Millions) | - | 12.207 | 1.912 | 0.000 | - | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | - | 14.119 |
| (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:

MAINTENANCE REPAIR AND OVERHAUL INITIATIVE (MROI):

 commercial environments. MROI will test the Air Force configuration of the software in DISA environments with added Reports, Interfaces, Conversions and Extensions (RICE)objects.
 Jan 2022.
 to perform studies and innovative integration efforts for common technology capabilities such as cloud migration, technology development and mobile application.

Funding for this exhibit contained in PE 0708055F.

## Justification:

In FY 2019 MROI was a new start.
 production software licenses in quantities sufficient to support the MROI user community based on multiple release strategy.

No funding was requested for FY 2021.

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Exhibit P-40, Budget Line Item Justification: PB 2021 Air Force
Date: February 2020

| Appropriation / Budget Activity / Budget Sub Activity: |
| :--- |
| 3080F: Other Procurement, Air Force / BA 03: Electronics and Telecommunications |
| Equip / BSA 4: Spcl Comm-Electronics Projects |

## P-1 Line Item Number / Title: <br> 834520 / Theater Battle Mgt C2 System

 Equip / BSA 4: Spcl Comm-Electronics ProjectsProgram Elements for Code B Items: N/A
Other Related Program Elements: 0207438F, 0305015F, 0305984F
Line Item MDAP/MAIS Code: N/A

| Resource Summary | Prior <br> Years | FY 2019 | FY 2020 | $\text { FY } 2021$ Base | $\begin{gathered} \text { FY } 2021 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \text { FY } 2021 \\ \text { Total } \end{gathered}$ | FY 2022 | FY 2023 | FY 2024 | FY 2025 | To Complete | Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Procurement Quantity (Units in Each) | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Cost (\$ in Millions) | - | 5.191 | 6.337 | 3.392 | - | 3.392 | 5.106 | 0.396 | 0.421 | 0.429 | - | 21.272 |
| Less PY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Net Procurement (P-1) (\$ in Millions) | - | 5.191 | 6.337 | 3.392 | - | 3.392 | 5.106 | 0.396 | 0.421 | 0.429 | - | 21.272 |
| Plus CY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Total Obligation Authority (\$ in Millions) | - | 5.191 | 6.337 | 3.392 | - | 3.392 | 5.106 | 0.396 | 0.421 | 0.429 | - | 21.272 |
| (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:

PE 0207438F, Theater Battle Management (TBM) C4I - P-40A

 joint interest responsible for generation and dissemination of the Air Tasking Order (ATO) and inter-operates with allied units.
 program transparency.

PE 0305015F, C2 Air Operations Suite - C2 Info Services - P-40A

 operates with allied units.

In FY 2021, TBMCS FL effort was transferred to PE 0207438, TBM C4I, from PE 0305015F, C2AOS-C2IS, in order to improve program transparency.



PE 0305984F, Personnel Recovery Command and Control (PRC2) - P40A


 rapidly collaborate, disseminate, and store time-sensitive personnel recovery information.
Appropriation / Budget Activity / Budget Sub Activity:
3080F: Other Procurement, Air Force / BA 03: Electronics and Telecommunications
Equip / BSA 4: Spcl Comm-Electronics Projects

## P-1 Line Item Number / Title: <br> 834520 / Theater Battle Mgt C2 System

 Equip / BSA 4: Spcl Comm-Electronics ProjectsID Code (A=Service Ready, B=Not Service Ready): A
Program Elements for Code B Items: N/A
Other Related Program Elements: 0207438F, 0305015F, 0305984F

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

Funding for this exhibit contained in PE 0207438F, PE 0305015F and PE 0305984F.
The FY 2021 funding request was reduced by $\$ 2.234$ million to account for the availability of prior year execution balances.

## Justification:

PE 0207438F, Theater Battle Management (TBM) C4I - P-40A; $\$ 3.045$ million

1. TBMCS FL: Provides the Combined/Joint Force Air Component Commander (C/JFACC) with the automated tools necessary to effectively and efficiently plan, monitor, and execute the air campaign. This includes planning and issuing the ATO and Airspace Control Order (ACO) that ensure the theater commander's intent is supported through the application of airpower using the latest intelligence. FY21 funding will field TBMCS FL Capital Equipment Replacement (CER) to the systems to maintain security posture and field to more than 40 locations.
a. TBMCS FL PROGRAM MANAGEMENT ADMINISTRATION (PMA): FY21 funding includes provisions for government contract oversight, technical expertise, and program office support associated with the fielding of TBMCS FL.
b. TBMCS FL FIELDING: FY21 funding will continue to support fielding of the TBMCS FL upgrades.
c. TBMCS FL: FY21 funding will continue to be used to procure hardware and associated software licenses for fielding to various sites.

PE 0305015F, C2 Air Operations Suite - C2 Info Services - P-40A; $\$ 0.000$ million
2. TBMCS FL: No FY21 funding requested.
3. C2IMERA (formerly UC2): No FY21 funding requested.

PE 0305984F, Personnel Recovery Command and Control (PRC2) - P40A; $\$ 0.347$ million
4. PRC2: Provides PRC2 services supporting all Combatant Commands, Joint Services and other government agencies. Capabilities include web-based access to isolated personnel reports for all DoD personnel, C2 tools for performing command and control of recovery efforts for downed airmen/isolated ground troops, and rapid identification of personnel in distress. PRC2 is used within AOC/AOR, Joint Personnel Recovery Centers, and Rescue Coordination Centers to provide the capabilities and services for planning and executing recovery of isolated personnel, and rapidly collaborate, disseminate, and store time-sensitive personnel recovery information.
a. PRC2 HARDWARE AND COTS SOFTWARE: FY21 funding will continue to procure various hardware pieces and associated software licenses for fielding to the 517 th Software Engineering Squadron (SWES) Development Network (DevNet).
b. PRC2 PMA: FY21 funding will provide for government program oversight, technical expertise, and program office support associated with the PRC2 fielding.
Appropriation / Budget Activity / Budget Sub Activity:
3080F: Other Procurement, Air Force / BA 03: Electronics and Telecommunications
Equip / BSA 4: Spcl Comm-Electronics Projects

## P-1 Line Item Number / Title:

834530 / Air \& Space Operations Center (AOC)

| 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 2019 | FY 2020 | $\begin{gathered} \text { FY } 2021 \\ \text { Base } \end{gathered}$ | $\begin{gathered} \text { FY } 2021 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \text { FY } 2021 \\ \text { Total } \end{gathered}$ | FY 2022 | FY 2023 | FY 2024 | FY 2025 | To Complete | Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Procurement Quantity (Units in Each) | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Cost (\$ in Millions) | - | 38.589 | 33.243 | 24.983 | - | 24.983 | 13.593 | 18.185 | 17.313 | 32.315 | - | 178.221 |
| Less PY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Net Procurement (P-1) (\$ in Millions) | - | 38.589 | 33.243 | 24.983 | - | 24.983 | 13.593 | 18.185 | 17.313 | 32.315 | - | 178.221 |
| Plus CY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Total Obligation Authority (\$ in Millions) | - | 38.589 | 33.243 | 24.983 | - | 24.983 | 13.593 | 18.185 | 17.313 | 32.315 | - | 178.221 |
| (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 Combined/Joint Force Commander's (C/JFC) objectives.

The AOC WS contains over 50 Command and Control (C2) systems/applications (3rd Party Commercial Off the Shelf (COTS)/Government Off the Shelf (GOTS)) that are continually being updated under monthly, quarterly and annual efforts (i.e. Agile Release Events (AREs), Critical Security Update (CSU), etc.). The AOC WS 10.1 integrates these changes as well as provides periodic Capital Equipment Replacement (CER) to keep the AOC WS interoperable, supportable, and compliant (e.g., certification and accreditation). Fielding will provide Joint C2 interoperability, and respond to the highest priority Combatant Command (CCMD) interoperability problems including: (a) incorporating fixes to shortfalls in interactions with CCMD targeting support systems, (b) enhancing the effectiveness of the operational picture to respond to the proliferation of sensors, and (c) handling data interface changes being experienced with older 3rd Party program deliveries. Major subsystems have enhanced their security profile and this fielding will serve as a re-accreditation of the overall AOC WS baseline. Primary efforts in fielding include CER and baseline updates via variously sized Baseline Releases (BR). BRs include regularly scheduled 3rd Party COTS/GOTS application updates. They are normally comprised of hardware/software changes/updates/modernized improvements/modifications and security patches. Each BR is based on warfighter-validated needs that require updates to the AOC WS 10.1. The AOC Block 20 Modification effort delivered a hybrid cloud-based Infrastructure and Platform as a Service (laaS/PaaS) to the AOC WS baseline. The hybrid cloud includes on premise hardware, software and commercial cloud computing services that host and provide air operations capabilities to the AOC enterprise.

The AOC WS funding provides system hardware, software, technical documents, CER (e.g., replacing end-of-life/end of support Direct Mission Support (DMS) and 3rd Party components), core radio and initia training to standardize and sustain the AOC WS. This includes the integration, test and fielding of cyber security improvements and existing 3rd Party modernized improvements/modifications (e.g., replace paper copy with electronic requests). The fielding and CER consist of AOCs and their associated support sites (e.g., Help Desk, Formal Training Unit (FTU), experimental sites, and Air Reserve Component sites).

There are three distinct categories of AOCs: Geographic, Global (formally known as Functional), and assorted AOC Support Functions (Help Desk, Field Training Unit (FTU), Operational Support Facility (OSF) and Air Reserve Component sites). While all sites start with the standardized 10.1 baseline, each is specifically tailored to the needs of the associated Geographic CCMD or Global (formally known as Functional) Command. Thus, as no two AOCs are alike, when a CER or BR is accomplished, each site is unique and requires its own specifically designed site-engineered fielding plan and associated hardware, which drives differences in site specific (i.e., unit) costs.

## UNCLASSIFIED

| Exhibit P-40, Budget Line Item Justification: PB 2021 Air Force | Date: February 2020 |
| :--- | :--- | :--- |
| Appropriation / Budget Activity / Budget Sub Activity: | P-1 Line Item Number / Title: |
| 3080F: Other Procurement, Air Force / BA 03: Electronics and Telecommunications | 834530 / Air \& Space Operations Center (AOC) |
| Equip / BSA 4: Spcl Comm-Electronics Projects |  |

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

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

Funding for this exhibit contained in PE 0207410F

| Secondary Distribution |  | FY 2019 | FY 2020 | $\begin{gathered} \text { FY } 2021 \\ \text { Base } \end{gathered}$ | $\begin{aligned} & \text { FY } 2021 \\ & \text { OCO } \end{aligned}$ | $\begin{gathered} \text { FY } 2021 \\ \text { Total } \end{gathered}$ | FY 2022 | FY 2023 | FY 2024 | FY 2025 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| AF | Quantity | - | - | - | - | - | - | - | - | - |
|  | Total Obligation Authority | 32.023 | 28.959 | 22.533 | - | 22.533 | - | - | - | - |
| AFNG | Quantity | - | - | - | - | - | - | - | - | - |
|  | Total Obligation Authority | 3.041 | 2.380 | 1.361 | - | 1.361 | - | - | - | - |
| AFR | Quantity | - | - | - | - | - | - | - | - | - |
|  | Total Obligation Authority | 3.525 | 1.904 | 1.089 | - | 1.089 | - | - | - | - |
| Total: <br> Secondary Distribution | Quantity | - | - | - | - | - | - | - | - | - |
|  | Total Obligation Authority | 38.589 | 33.243 | 24.983 | - | 24.983 | - | - | - | - |


*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 components) and baseline updates via variously sized BRs.


b. BASELINE RELEASES (BR): FY21 will fund BRs, periodic maintenance upgrades, emergency fixes, cyber security improvements and other activities (e.g., testing activities).

d. TEST SUPPORT (45th / 47th Test Squadron [45 TS/47 TS]): FY21 funds will be used to provide government oversight and technical expertise associated with the testing of AOC.

Exhibit P-5, Cost Analysis: PB 2021 Air Force

Appropriation / Budget Activity / Budget Sub Activity: 3080F / 03 / 4

## P-1 Line Item Number / Title: 834530 / Air \& Space Operations Center (AOC)

Date: February 2020

## Item Number / Title [DODIC]:

Air \& Space Operations Center (AOC)

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

| Resource Summary | Prior Years | FY 2019 | FY 2020 | FY 2021 Base | FY 2021 OCO | FY 2021 Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Procurement Quantity (Units in Each) | - | - | - | - | - | - |
| Gross/Weapon System Cost (\$ in Millions) | - | 38.589 | 33.243 | 24.983 | - | 24.983 |
| Less PY Advance Procurement (\$ in Millions) | - | - | - | - | - | - |
| Net Procurement (P-1) (\$ in Millions) | - | 38.589 | 33.243 | 24.983 | - | 24.983 |
| Plus CY Advance Procurement (\$ in Millions) | - | - | - | - | - | - |
| Total Obligation Authority (\$ in Millions) | - | 38.589 | 33.243 | 24.983 | - | 24.983 |
| (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 2019 |  |  | FY 2020 |  |  | FY 2021 Base |  |  | FY 2021 OCO |  |  | FY 2021 Total |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 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) | $\underset{(\text { (Each) }}{\text { Qty }}$ | Total Cost <br> (\$ M) | Unit Cost (\$ M) | $\underset{(\text { Each })}{\text { Qty }}$ | Total Cost (\$ M) |

Hardware - Hardware End Item Cost
Recurring Cost

| 1.a.1. CAPTIAL EQUIPMENT REPLACEMENT: GEOGRAPHIC/ GLOBAL (formerly known as Functional) AOC - AD | - | - | - | - | - | 5.447 | - | - | 4.761 | - | - | 2.722 | - | - | - | - | - | 2.722 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1.a.2. CAPITAL EQUIPMENT REPLACEMENT: AOC SUPPORT SITES - AD | - | - | - | - | - | 1.517 | . | - | 1.428 | - | - | 0.817 | - | - | - | - | - | 0.817 |
| 1.a.3. CAPITAL EQUIPMENT REPLACEMENT: AOC EXPERIMENTAL SITES - AD | . | - | - | - | - | 2.136 | . | - | 8.173 | - | - | 8.199 | - | - | - | - | - | 8.199 |
| 1.a.4. CAPITAL EQUIPMENT REPLACEMENT RESERVE | - | - | - | - | - | 3.525 | - | . | 1.904 | - | - | 1.089 | - | - | - | - | - | 1.089 |
| 1.a.5: CAPITAL EQUIPMENT REPLACEMENT GUARD | - | - | - | - | - | 3.041 | - | - | 2.380 | - | - | 1.361 | - | - | - | - | - | 1.361 |

Exhibit P-5, Cost Analysis: PB 2021 Air Force

| Appropriation / Budget Activity / Budget Sub Activity: <br> $3080 \mathrm{~F} / 03$ / 4 | P-1 Line Item Number / Title: <br> $834530 ~ / ~ A i r ~ \& ~ S p a c e ~ O p e r a t i o n s ~ C e n t e r ~(A O C) ~$ |
| :--- | :--- |

Date: February 2020

## Item Number / Title [DODIC]:

Air \& Space Operations Center (AOC)

MDAP/MAIS Code:
ID Code ( $A=$ Service Ready, $B=$ Not Serice Ready) : A P-1 Line Item Number / Title:
834530 / Air \& Space Operations Center (AOC)

Air \& Space Operations Cener (AOC) Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

|  | Prior Years |  |  | FY 2019 |  |  | FY 2020 |  |  | FY 2021 Base |  |  | FY 2021 OCO |  |  | FY 2021 Total |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Cost Elements | 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) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | Total Cost (\$ M) | Unit Cost (\$ M) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost (\$ M) |
| 1.b.1. BASELINE RELEASE: AOC SITES - AD | - | - | - | - | - | 1.592 | - | - | 0.900 | - | - | 0.350 | - | - | - | - | - | 0.350 |
| 1.b.2. BASELINE RELEASE: SUPPORT SITES - AD | - | - | - | - | - | 0.927 | - | - | 1.000 | - | - | 0.350 | - | - | - | - | - | 0.350 |
| 1.c. FIELDING SPO SUPPORT | - | - | - | - | - | 14.299 | - | - | 7.391 | - | - | 1.018 | - | - | - | - | - | 1.018 |
| 1.d. TEST SUPPORT (46 TS) | - | - | - | - | - | 1.344 | - | - | 0.957 | - | - | 1.000 | - | - | - | - | - | 1.000 |
| Subtotal: Recurring Cost | - | - | - | - | - | 33.828 | - | - | 28.894 | - | - | 16.906 | - | - | - | - | - | 16.906 |
| Subtotal: Hardware - <br> Hardware End Item Cost | - | - | - | - | - | 33.828 | - | - | 28.894 | - | - | 16.906 | - | - | - | - | - | 16.906 |
| Support - Support End Item Cost |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 2.a. PROGRAM MANAGEMENT: PROGRAM SUPPORT | - | - | - | - | - | 4.761 | - | - | 4.349 | - | - | 8.077 | - | - | - | - | - | 8.077 |
| Subtotal: Support - Support End Item Cost | - | - | - | - | - | 4.761 | - | - | 4.349 | - | - | 8.077 | - | - | - | - | - | 8.077 |
| Gross/Weapon System Cost | - | - | - | - | - | 38.589 | - | - | 33.243 | - | - | 24.983 | - | - | - | - | - | 24.983 |

## Remarks:

1). Due to different levels of complexity, differences in equipment to be updated, and length of required time necessary for modification, the total cost will fluctuate between fiscal years.



 Plan of Action for this effort.

| Secondary Distribution |  | FY 2019 | FY 2020 | $\begin{gathered} \text { FY } 2021 \\ \text { Base } \end{gathered}$ | $\begin{gathered} \text { FY } 2021 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \text { FY } 2021 \\ \text { Total } \end{gathered}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| AF | Quantity | - | - | - | - | - |
|  | Total Obligation Authority | 32.023 | 28.959 | 22.533 | - | 22.533 |
| AFNG | Quantity | - | - | - | - | - |
|  | Total Obligation Authority | 3.041 | 2.380 | 1.361 | - | 1.361 |
| AFR | Quantity | - | - | - | - | - |

UNCLASSIFIED


| Exhibit P-40, Budget Line Item Justification: PB 2021 Air Force |  |  |  |  |  |  |  |  | Date: February 2020 |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: <br> 3080F: Other Procurement, Air Force / BA 03: Electronics and Telecommunications Equip / BSA 4: Spcl Comm-Electronics Projects |  |  |  |  |  | P-1 Line Item Number / Title: <br> 834880 / Spectrum Relocation Fund |  |  |  |  |  |  |
| 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 2019 | FY 2020 | $\begin{gathered} \text { FY } 2021 \\ \text { Base } \end{gathered}$ | $\begin{gathered} \hline \text { FY } 2021 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \text { FY } 2021 \\ \text { Total } \end{gathered}$ | FY 2022 | FY 2023 | FY 2024 | FY 2025 | To Complete | Total |
| Procurement Quantity (Units in Each) | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Cost (\$ in Millions) | - | 9.420 | 0.000 | 0.000 | - | 0.000 | 0.000 | 0.000 | 0.000 | - | - | 9.420 |
| Less PY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Net Procurement (P-1) (\$ in Millions) | - | 9.420 | 0.000 | 0.000 | - | 0.000 | 0.000 | 0.000 | 0.000 | - | - | 9.420 |
| Plus CY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Total Obligation Authority (\$ in Millions) | - | 9.420 | 0.000 | 0.000 | - | 0.000 | 0.000 | 0.000 | 0.000 | - | - | 9.420 |
| (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 Dollars) | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Unit Cost (\$ in Dollars) | - | - | - | - | - | - | - | - | - | - | - | - |
| Description: <br> Funding supports Spectrum relocation and sharing activities as provided in 47 U.S.C. Sec 928 - Spectrum Relocation Fund. |  |  |  |  |  |  |  |  |  |  |  |  |
| Justification: <br> No budget year (FY21) funding requested. |  |  |  |  |  |  |  |  |  |  |  |  |

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Appropriation / Budget Activity / Budget Sub Activity:
3080F: Other Procurement, Air Force / BA 03: Electronics and Telecommunications
Equip / BSA 5: Air Force Communications

## P-1 Line Item Number / Title:

835060 / Base Information Transpt Infrast (BITI) Wired

| ID Code (A=Serice Ready, $B=$ Not Serice Reay): A | Program Elements for Code B Items: N/A | Other Related Program Elements: 0303004F, 0303112F |
| :--- | :--- | :--- |

Line Item MDAP/MAIS Code: N78

| Resource Summary | Prior <br> Years | FY 2019 | FY 2020 | $\text { FY } 2021$ Base | $\begin{gathered} \text { FY } 2021 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \text { FY } 2021 \\ \text { Total } \end{gathered}$ | FY 2022 | FY 2023 | FY 2024 | FY 2025 | To Complete | Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Procurement Quantity (Units in Each) | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Cost (\$ in Millions) | 14.810 | 17.271 | 62.280 | 19.147 | - | 19.147 | 109.163 | 51.942 | 111.901 | 113.951 | 153.793 | 654.258 |
| Less PY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Net Procurement (P-1) (\$ in Millions) | 14.810 | 17.271 | 62.280 | 19.147 | - | 19.147 | 109.163 | 51.942 | 111.901 | 113.951 | 153.793 | 654.258 |
| Plus CY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Total Obligation Authority (\$ in Millions) | 14.810 | 17.271 | 62.280 | 19.147 | - | 19.147 | 109.163 | 51.942 | 111.901 | 113.951 | 153.793 | 654.258 |
| (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:







 services, and mobile computing. As UC evolves, to include but not limited to voice, BITI will respond with expanded bandwidth to provide the necessary throughput.

 installed location.

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

Funding for this exhibit contained in PE 0303112F until FY 21. From FY 21 and onward funding will be contained in PE 033004F.
The FY 21 funding request was reduced by $\$ 13$ million to account for the availability of prior year execution balances.

## UNCLASSIFIED

| Exhibit P-40, Budget Line Item Justification: PB 2021 Air Force |  |  |  |  |  |  |  | Date: February 2020 |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: <br> 3080F: Other Procurement, Air Force / BA 03: Electronics and Telecommunications Equip / BSA 5: Air Force Communications |  |  |  |  | P-1 Line Item Number / Title: <br> 835060 / Base Information Transpt Infrast (BITI) Wired |  |  |  |  |  |
|  |  |  | Program Elements for Code B Items: N/A |  |  |  | Other Related Program Elements: 0303004F, 0303112F |  |  |  |
| Line Item MDAP/MAIS Code: N78 |  |  |  |  |  |  |  |  |  |  |
| Secondary Distribution |  | FY 2019 | FY 2020 | $\begin{gathered} \text { FY } 2021 \\ \text { Base } \end{gathered}$ | $\begin{aligned} & \text { FY } 2021 \\ & \text { OCO } \end{aligned}$ | $\begin{gathered} \text { FY } 2021 \\ \text { Total } \end{gathered}$ | FY 2022 | FY 2023 | FY 2024 | FY 2025 |
| AF | Quantity | - | - | - | - | - | - | - | - | - |
|  | Total Obligation Authority | 9.720 | 51.366 | 19.147 | - | 19.147 | 102.206 | 51.942 | 101.577 | 106.965 |
| AFNG | Quantity | - | - | - | - | - | - | - | - | - |
|  | Total Obligation Authority | 7.551 | 8.570 | 0.000 | - | 0.000 | 3.685 | 0.000 | 10.324 | 6.391 |
| AFR | Quantity | - | - | - | - | - | - | - | - | - |
|  | Total Obligation Authority | 0.000 | 2.344 | 0.000 | - | 0.000 | 3.272 | 0.000 | 0.000 | 0.595 |
| Total: <br> Secondary Distribution | Quantity | - | - | - | - | - | - | - | - | - |
|  | Total Obligation Authority | 17.271 | 62.280 | 19.147 | - | 19.147 | 109.163 | 51.942 | 111.901 | 113.951 |

Exhibit P-40, Budget Line Item Justification: PB 2021 Air Force
Date: February 2020

| Appro <br> 3080F <br> Equip | opriation / Budget Activity / Budget Su <br> Other Procurement, Air Force / BA 03: <br> / BSA 5: Air Force Communications | ctivity: <br> ctronics | hd T | leco | munications | 1 Line Item 5060 / Base | ber / Title: rmation Trans | nfrast (BITI) V |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| ID Cod | ( $A=$ Service Ready, B=Not Service Ready): A |  | gra | mlem | s for Code B Ite | : N/A | Othe | ated Program | ents: 0303004F | 03112F |
| Line It | m MDAP/MAIS Code: N78 |  |  |  |  |  |  |  |  |  |
|  | Exhibits Schedule |  |  |  | Prior Years | FY 2019 | FY 2020 | FY 2021 Base | FY 2021 OCO | FY 2021 Total |
| Exhibit Type | Title* | Subexhibits | $\begin{array}{\|l\|l\|} \hline \text { ID } \\ \text { Con } \end{array}$ | 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 | $1 / \mathrm{BITI}$ Mod/Recaps (Capability Improvement) |  | A |  | - / 14.810 | - / 17.271 | - $/ 62.280$ | - / 19.147 | - 10.000 | - / 19.147 |
| P-3a | 2 / BITI Mod/Recaps BITI Modification 2 (Capability Improvement) |  | A |  | - 1 | - 1 | - 1 | - 1 | - 1 | - 1 |
| P-40 | Total Gross/Weapon System Cost |  |  |  | - / 14.810 | - / 17.271 | - 162.280 | - / 19.147 | 1 | - /19.147 |
|  | Exhibits Schedule |  |  |  | FY 2022 | FY 2023 | FY 2024 | FY 2025 | To Complete | Total |
| Exhibit Type | Title* | Subexhibits | $\begin{aligned} & \text { ID } \\ & \text { CD } \end{aligned}$ | MDAP/ MAIS Code | Quantity / Total Cos (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 | $1 / \mathrm{BITI}$ Mod/Recaps (Capability Improvement) |  | A |  | - /109.163 | - 10.000 | - 10.000 | - 10.000 | - 1 - | - 1222.671 |
| P-3a | 2 / BITI Mod/Recaps BITI Modification 2 (Capability Improvement) |  | A |  | - 1 - | - $/ 51.942$ | - /111.901 | - /113.951 | - /153.793 | - 1431.587 |
| P-40 | Total Gross/Weapon System Cost |  |  |  | - /109.163 | - 151.942 | - / 111.901 | - / 113.951 | - / 153.793 | - 1654.258 |

*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:


 interim contractor support (ICS).

BITI Recapitalization: FY21 continues replacement of BITI on Air Force Turnkey fielded systems (5 year cycles)

## UNCLASSIFIED

| Exhibit P-3a, Individual Modification: PB 2021 Air Force |  |  |  |  |  |  |  |  | Date: February 2020 |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3080F / 03 / 5 |  |  |  | P-1 Line Item Number / Title: <br> 835060 / Base Information Transpt Infrast (BITI) Wired |  |  |  |  | Modification Number / Title: <br> 1 / BITI Mod/Recaps |  |  |  |
| ID Code (A=Service Ready, B=Not Service Ready) : A |  |  |  |  |  | MDAP/MAIS Code: |  |  |  |  |  |  |
| Resource Summary | Prior Years | FY 2019 | FY 2020 | $\begin{gathered} \text { FY } 2021 \\ \text { Base } \end{gathered}$ | $\begin{gathered} \hline \text { FY } 2021 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \text { FY } 2021 \\ \text { Total } \end{gathered}$ | FY 2022 | FY 2023 | FY 2024 | FY 2025 | To Complete | Total |
| Procurement Quantity (Units in Each) | - | - | - | - | - | - | - | - | - | - | - |  |
| Gross/Weapon System Cost (\$ in Millions) | 14.810 | 17.271 | 62.280 | 19.147 | 0.000 | 19.147 | 109.163 | 0.000 | 0.000 | 0.000 | - | 222.671 |
| Less PY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Net Procurement (P-1) (\$ in Millions) | 14.810 | 17.271 | 62.280 | 19.147 | 0.000 | 19.147 | 109.163 | 0.000 | 0.000 | 0.000 | - | 222.671 |
| Plus CY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - |  |
| Total Obligation Authority (\$ in Millions) | 14.810 | 17.271 | 62.280 | 19.147 | 0.000 | 19.147 | 109.163 | 0.000 | 0.000 | 0.000 | - | 222.671 |
| (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:

BITI Recapitalization: FY18 - FY22 replaces BITI Turnkey fielded systems (which started in FY15 and completed in FY18) for approved Air Force installations (5 year cycle).
NOTE: Direction in January 2016 was to begin reporting the modification effort for BITI on a P-3a exhibit starting for FY18 and beyond. Modification 1 covers the first 5 year recapitalization from FY18-FY22.
Milestone/Development Status
Sustainment

| Secondary Distribution |  | FY 2019 | FY 2020 | $\begin{gathered} \text { FY } 2021 \\ \text { Base } \end{gathered}$ | $\begin{gathered} \text { FY } 2021 \\ \text { OCO } \end{gathered}$ | $\begin{aligned} & \text { FY } 2021 \\ & \text { Total } \end{aligned}$ | FY 2022 | FY 2023 | FY 2024 | FY 2025 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| AF | Quantity | - | - | - | - | - | - | - | - | - |
|  | Total Obligation Authority | 9.720 | 51.366 | 19.147 | - | 19.147 | 102.206 | - | - | - |
| AFNG | Quantity | - | - | - | - | - | - | - | - | - |
|  | Total Obligation Authority | 7.551 | 8.570 | 0.000 | - | 0.000 | 3.685 | - | - | - |
| AFR | Quantity | - | - | - | - | - | - | - | - | - |
|  | Total Obligation Authority | 0.000 | 2.344 | 0.000 | - | 0.000 | 3.272 | - | - | - |
| Total: <br> Secondary Distribution | Quantity | - | - | - | - | - | - | - | - | - |
|  | Total Obligation Authority | 17.271 | 62.280 | 19.147 | 0.000 | 19.147 | 109.163 | 0.000 | 0.000 | 0.000 |

Exhibit P-3a, Individual Modification: PB 2021 Air Force Appropriation / Budget Activity / Budget Sub Activity: 3080F / 03 / 5
ID Code (A=Service Ready, B=Not Service Ready) : A

Date: February 2020

## Modification Number / Title:

1 / BITI Mod/Recaps

## P-1 Line Item Number / Title: 835060 / Base Information Transpt Infrast (BITI) Wired

MDAP/MAIS Code:

| Models of Systems Affected: BITI |  | Modification Type: Capability Improvement |  |  |  |  | Related RDT\&E PEs: 0303004F, 0303112F |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Financial Plan | Prior Years | FY 2019 | FY 2020 | $\begin{gathered} \text { FY } 2021 \\ \text { Base } \end{gathered}$ | $\begin{aligned} & \text { FY } 2021 \\ & \text { OcO } \end{aligned}$ | $\begin{gathered} \text { FY } 2021 \\ \text { Total } \end{gathered}$ | FY 2022 | FY 2023 | FY 2024 | FY 2025 | To Complete | Total |
|  | $\begin{array}{\|c\|} \hline \text { Qty (Each) I } \\ \text { Total Cost }(\$ \mathrm{M}) \\ \hline \end{array}$ | $\begin{array}{\|c\|} \hline \text { Qty (Each) I } \\ \text { Total Cost (\$M) } \\ \hline \end{array}$ | $\begin{array}{c\|} \hline \text { Qty (Each) I } \\ \text { Total Cost (\$ M) } \\ \hline \end{array}$ | $\begin{array}{\|c\|} \hline \text { Qty (Each)I } \\ \text { Total Cost (\$M) } \\ \hline \end{array}$ | $\begin{gathered} \text { Oty (Each) I } \\ \text { Total Cost (\$ M) } \end{gathered}$ | $\begin{array}{\|c\|} \hline \text { Qty (Each) I } \\ \text { Total Cost (\$ M) } \\ \hline \end{array}$ | $\begin{array}{\|c\|} \hline \text { Qty (Each) } 1 \\ \text { Total Cost (SM) } \end{array}$ | $\begin{array}{\|c\|} \hline \text { Qty (Each) I } \\ \text { Total Cost (\$ M) } \\ \hline \end{array}$ | $\begin{gathered} \text { Qty (Each) I } \\ \text { Total Cost (\$ M) } \end{gathered}$ | $\begin{gathered} \text { Qty (Each) I } \\ \text { Total Cost (\$ M) } \end{gathered}$ | $\begin{gathered} \text { Qty (Each) I } \\ \text { Total Cost (\$ M) } \end{gathered}$ | $\begin{array}{\|c\|} \hline \text { Qty (Each)I } \\ \text { Total Cost (\$M) } \\ \hline \end{array}$ |
| Procurement |  |  |  |  |  |  |  |  |  |  |  |  |
| Modification Item 1 of 1: BITI Recapitalization |  |  |  |  |  |  |  |  |  |  |  |  |
| B Kits |  |  |  |  |  |  |  |  |  |  |  |  |
| Recurring |  |  |  |  |  |  |  |  |  |  |  |  |
| BITI Recapitalization:EQUIPMENT Group B (Active) | 1/3.788 | 15/7.354 | $14 / 6.423$ | - 10.000 | 1 - | - 10.000 | 18/21.891 | - 1 | 1 | - 1 | - 1 | 48/39.456 |
| BITI Recapitalization:EQUIPMENT Group B (Guard) | $0 / 2.401$ | 3816.069 | $28 / 7.268$ | - 10.000 | - 1- | - 10.000 | 10/3.183 | $1-$ | 1 - | 1 - | -1- | 76/18.921 |
| BITI Recapitalization:EQUIPMENT Group B (Reserve) | 0/0.000 | 0/0.000 | 4/2.044 | - 10.000 | 1 | - 10.000 | 6/2.723 | - 1- | 1 | 1 | - 1 - | $10 / 4.767$ |
| Subtotal: Recurring | - 16.189 | - /13.423 | - /15.735 | - 10.000 | $1-$ | - 10.000 | - 127.797 | 1 - | 1 - | 1 - | - 1 - | - 163.144 |
| Subtotal: BITI Recapitalization | /6.189 | - /13.423 | - /15.735 | - 10.000 | 1 - | - 10.000 | - /27.797 | 1 - | 1 - | 1 - | - 1- | - 163.144 |
| Subtotal: Procurement, All Modification Items | 16.189 | /13.423 | /15.735 | - 10.000 | - / - | - 10.000 | - /27.797 | - 1- | - 1 - | - / - | - / - | - 163.144 |
| Support (All Modification Items) |  |  |  |  |  |  |  |  |  |  |  |  |
| GROUP B: TOTAL NONRECURRING | - 10.356 | - 10.039 | - 127.416 | - 13.447 | 1. | - 13.447 | - 160.763 | 1. | 1. | - 1. | - 1. | - 192.021 |
| PMA - Other Gov't Costs | - 10.332 | - 10.433 | - 10.832 | - 10.587 | $1-$ | - 10.587 | - 10.595 | $1-$ | 1 | - 1 - | - 1 | - 12.779 |
| A\&AS | - 12.130 | - 10.000 | - 17.045 | - 18.789 | - 1 - | - 18.789 | - /10.658 | -1- | - 1 - | - 1 - | - 1 - | - 128.622 |
| PMA - Contractor Services | - 15.353 | - 10.275 | - 18.921 | - 16.324 | 1 | - 18.324 | - 15.899 | 1 | $1-$ | - 1- | - 1. | 126.772 |
| Subtotal: Support | - 18.171 | - 10.747 | - /44.214 | - /19.147 | 1 | - /19.147 | - 177.915 | 1 | 1. | 1 | - 1. | - /150.194 |
| Installation |  |  |  |  |  |  |  |  |  |  |  |  |
| Modification Item 1 of 1: BITI Recapitalization | 1/0.450 | 53/3.101 | $46 / 2.331$ | 1 - | - 1- | - 1- | 3413.451 | 1 - | - 1- | - 1 - | - 1 - | 134/9.333 |
| Subtotal: Installation | 1/0.450 | 53/3.101 | 46/2.331 | 1 | 1. | - 1 - | 34/3.451 | 1 | - 1 - | 1. | - $/$ - | 134/9.333 |
| Total |  |  |  |  |  |  |  |  |  |  |  |  |
| Total Cost (Procurement + Support + Installation) | 14.810 | 17.271 | 62.280 | 19.147 | 0.000 | 19.147 | 109.163 | 0.000 | 0.000 | 0.000 | - | 222.671 |

## UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2021 Air Force Appropriation / Budget Activity / Budget Sub Activity: 3080F / 03 / 5
ID Code (A=Service Ready, B=Not Service Ready) : A

Date: February 2020

## Modification Number / Title:

$1 / \mathrm{BITI}$ Mod/Recaps

Modification Item 1 of 1: BITI Recapitalization


## UNCLASSIFIED

| Exhibit P-3a, Individual Modification: PB 2021 Air Force |  |  |  |  |  |  |  |  | Date: February 2020 <br> Modification Number / Title: <br> 2 I BITI Mod/Recaps BITI Modification 2 |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity 3080F / 03/5 | Budget | ub Activit | P-1 Line Item Number / Title: <br> 835060 / Base Information Transpt Infrast (BITI) Wired |  |  |  |  |  |  |  |  |  |
| ID Code (A=Service Ready, B=Not Service Ready) : A |  |  |  |  |  | MDAP/MAIS Code: |  |  |  |  |  |  |
| Resource Summary | Prior Years | FY 2019 | FY 2020 | $\text { FY } 2021$ <br> Base | $\begin{aligned} & \text { FY } 2021 \\ & \text { OCO } \end{aligned}$ | $\begin{gathered} \text { FY } 2021 \\ \text { Total } \end{gathered}$ | FY 2022 | FY 2023 | FY 2024 | FY 2025 | To Complete | Total |
| Procurement Quantity (Units in Each) | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Cost (\$ in Millions) | - | - | - | - | - | - | - | 51.942 | 111.901 | 113.951 | 153.793 | 431.587 |
| Less PY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Net Procurement (P-1) (\$ in Millions) |  | - | - | - | - | - | - | 51.942 | 111.901 | 113.951 | 153.793 | 431.587 |
| Plus CY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Total Obligation Authority (\$ in Millions) | - | - | - | - | - | - | - | 51.942 | 111.901 | 113.951 | 153.793 | 431.587 |
| (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:

 Force Installations
 FY27.

Milestone/Development Status

| Sustainment |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Secondary Distribution |  | FY 2019 | FY 2020 | $\begin{aligned} & \text { FY } 2021 \\ & \text { Base } \end{aligned}$ | $\begin{gathered} \text { FY } 2021 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \text { FY } 2021 \\ \text { Total } \end{gathered}$ | FY 2022 | FY 2023 | FY 2024 | FY 2025 |
| AF | Quantity | - | - | - | - | - | - | - | - | - |
|  | Total Obligation Authority | - | - | - | - | - | - | 51.942 | 101.577 | 106.965 |
| AFNG | Quantity | - | - | - | - | - | - | - | - | - |
|  | Total Obligation Authority | - | - | - | - | - | - | 0.000 | 10.324 | 6.391 |
| AFR | Quantity | - | - | - | - | - | - | - | - | - |
|  | Total Obligation Authority | - | - | - | - | - | - | 0.000 | 0.000 | 0.595 |
| Total: <br> Secondary Distribution | Quantity | - | - | - | - | - | - | - | - | - |
|  | Total Obligation Authority | - | - | - | - | - | - | 51.942 | 111.901 | 113.951 |

Exhibit P-3a, Individual Modification: PB 2021 Air Force Appropriation / Budget Activity / Budget Sub Activity: 3080F / 03 / 5
ID Code (A=Service Ready, B=Not Service Ready) : A

## Date: February 2020

## Modification Number / Title:

2 / BITI Mod/Recaps BITI Modification 2

## P-1 Line Item Number / Title: 835060 / Base Information Transpt Infrast (BITI) Wired

MDAP/MAIS Code:

| Models of Systems Affected: BITI | Modification Type: Capability Improvement |  |  |  |  |  | Related RDT\&E PEs: 0303004F, 0303112F |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Financial Plan | Prior Years | FY 2019 | FY 2020 | $\begin{gathered} \text { FY } 2021 \\ \text { Base } \end{gathered}$ | $\begin{aligned} & \text { FY } 2021 \\ & \text { OCO } \end{aligned}$ | $\begin{gathered} \hline \text { FY } 2021 \\ \text { Total } \end{gathered}$ | FY 2022 | FY 2023 | FY 2024 | FY 2025 | To Complete | Total |
|  | $\begin{gathered} \text { Qty (Each) I } \\ \text { Total Cost (\$ M) } \\ \hline \end{gathered}$ | $\begin{gathered} \text { Qty (Each) I } \\ \text { Total Cost (\$ M) } \end{gathered}$ | $\begin{array}{\|c\|} \hline \text { Qty (Each) I } \\ \text { Total Cost (\$ M) } \\ \hline \end{array}$ | $\begin{gathered} \text { Qty (Each) I } \\ \text { Total Cost (\$ M) } \end{gathered}$ | $\begin{gathered} \text { Qty (Each) I } \\ \text { Total Cost (\$ M) } \end{gathered}$ | $\begin{gathered} \text { Oty (Each) I } \\ \text { Total Cost (\$ M) } \\ \hline \end{gathered}$ | $\begin{gathered} \text { Qty (Each) I } \\ \text { Total Cost (\$ M) } \end{gathered}$ | $\begin{array}{\|c\|} \hline \text { Qty (Each) I } \\ \text { Total Cost (\$ M) } \\ \hline \end{array}$ | $\begin{array}{\|c\|} \hline \text { Qty (Each) I } \\ \text { Total Cost (\$ M) } \\ \hline \end{array}$ | $\begin{array}{\|c\|} \hline \text { Qty (Each) I } \\ \text { Total Cost (\$ M) } \\ \hline \end{array}$ | $\begin{gathered} \text { Qty (Each) I } \\ \text { Total Cost (\$ M) } \\ \hline \end{gathered}$ | $\begin{gathered} \text { Qty (Each) I } \\ \text { Total Cost (\$ M) } \\ \hline \end{gathered}$ |
| Procurement |  |  |  |  |  |  |  |  |  |  |  |  |
| Modification Item 1 of 1: BITI Recapitalization (2) |  |  |  |  |  |  |  |  |  |  |  |  |
| B Kits |  |  |  |  |  |  |  |  |  |  |  |  |
| Recurring |  |  |  |  |  |  |  |  |  |  |  |  |
| BITI Recapitalization:EQUIPMENT Group B (Active) | 1. | 1. | 1 - | 1. | - 1 - | 1. | 1. | $36 / 18.507$ | $2 / 3.776$ | $14 / 8.185$ | $67 / 47.460$ | $119 / 77.928$ |
| BITI Recapitalization:EQUIPMENT Group B (Guard) | 1 | 1 - | - 1 - | - 1 - | - 1- | - 1- | - 1 - | $0 / 0.000$ | $30 / 8.657$ | $20 / 5.430$ | $26 / 6.181$ | $76 / 20.268$ |
| BITI Recapitalization:EQUIPMENT Group B (Reserve) | - 1- | - 1 - | - 1- | 1 - | 1 - | - 1 - | - 1 - | 0/0.000 | 0/0.000 | 0/0.595 | 10/4.130 | 10/4.725 |
| Subtotal: Recurring | - 1. | - 1- | - / - | - 1- | 1. | - / - | - / - | - /18.507 | - /12.433 | - /14.210 | - 157.771 | - /102.921 |
| Subtotal: BITI Recapitalization (2) | - / - | - / - | - / - | - / - | - / - | - / - | - / - | - /18.507 | - /12.433 | - /14.210 | - /57.771 | - /102.921 |
| Subtotal: Procurement, All Modification Items | 1 | - / - | - / - | - / - | - / - | - / - | - / - | - /18.507 | - /12.433 | 114.210 | - /57.771 | - /102.921 |
| Support (All Modification Items) |  |  |  |  |  |  |  |  |  |  |  |  |
| GROUP B: TOTAL NONRECURRING | 1 - | 1. | $1-$ | $1-$ | 1 | - 1- | $1-$ | - /12.262 | - 180.061 | - 179.693 | - 149.059 | - 1221.075 |
| PMA - Other Gov't Costs | 1 - | 1 - | 1 - | $1-$ | $1-$ | $1-$ | 1 | - 10.607 | - 10.619 | - 10.632 | - 11.301 | - 13.159 |
| ARAS | 1 | 1 | 1 | - 1- | - 1- | - 1 | 1 | - /10.870 | - /11.088 | - /11.310 | - 123.303 | - 156.571 |
| PMA - Contractor Services | 1 - | $1-$ | 1 - | $1-$ | $1-$ | - 1- | - 1- | - 15.177 | 15.760 | - 15.875 | - /12.106 | - 128.918 |
| Subtotal: Support | 1 | - 1. | - / - | - / - | - / - | - / - | - / - | - /28.916 | - /97.528 | - 197.510 | - 185.769 | - 1309.723 |
| Installation |  |  |  |  |  |  |  |  |  |  |  |  |
| Modification Item 1 of 1: BITI Recapitalization (2) | - 1 - | 1 - | 1 - | 1 - | 1 | 1 - | 1 - | $36 / 4.519$ | $32 / 1.940$ | $34 / 2.231$ | 103/10.253 | 205/18.943 |
| Subtotal: Installation | 1. | - / - | - / - | - 1. | - / - | - / - | - / - | 36/4.519 | 32/1.940 | 34/2.231 | 103/10.253 | 205/18.943 |
| Total |  |  |  |  |  |  |  |  |  |  |  |  |
| Total Cost (Procurement + Support + Installation) | - | - | - | - | - | - | - | 51.942 | 111.901 | 113.951 | 153.793 | 431.587 |

## UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2021 Air Force Appropriation / Budget Activity / Budget Sub Activity: 3080F / 03 / 5
ID Code (A=Service Ready, B=Not Service Ready) : A

Date: February 2020

## P-1 Line Item Number / Title: 835060 / Base Information Transpt Infrast (BITI) Wired

## Modification Number / Title:

2 / BITI Mod/Recaps BITI Modification 2

MDAP/MAIS Code:
Modification Item 1 of 1: BITI Recapitalization (2)


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Exhibit P-40, Budget Line Item Justification: PB 2021 Air Force
Date: February 2020

## Appropriation / Budget Activity / Budget Sub Activity:

3080F: Other Procurement, Air Force / BA 03: Electronics and Telecommunications Equip / BSA 5: Air Force Communications

Program Elements for Code B Items: N/A

## P-1 Line Item Number / Title:

835080 / AFNET

| ID Code (A=Service Ready, B=Not Service Ready): A |  |  | Program Elements for Code B Items: N/A |  |  |  |  | Other Related Program Elements: 0208088F, 0208099F, 0303089F, 0303112F |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Line Item MDAP/MAIS Code: N/A |  |  |  |  |  |  |  |  |  |  |  |  |
| Resource Summary | Prior <br> Years | FY 2019 | FY 2020 | $\text { FY } 2021$ Base | $\begin{gathered} \text { FY } 2021 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \text { FY } 2021 \\ \text { Total } \end{gathered}$ | FY 2022 | FY 2023 | FY 2024 | FY 2025 | To Complete | Total |
| Procurement Quantity (Units in Each) | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Cost (\$ in Millions) | 0.000 | 72.596 | 131.063 | 84.515 | - | 84.515 | 78.925 | 84.031 | 81.761 | 50.418 | - | 583.309 |
| Less PY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Net Procurement (P-1) (\$ in Millions) | 0.000 | 72.596 | 131.063 | 84.515 | - | 84.515 | 78.925 | 84.031 | 81.761 | 50.418 | - | 583.309 |
| Plus CY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Total Obligation Authority (\$ in Millions) | 0.000 | 72.596 | 131.063 | 84.515 | - | 84.515 | 78.925 | 84.031 | 81.761 | 50.418 | - | 583.309 |
| (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:

These programs support Cyberspace Activities.
AFNet provides Commercial Off-The-Shelf (COTS) solutions to implement, deliver and upgrade installation processing nodes and boundaries, AF NIPRNet Gateways, Information Management Suite, enterprise network security, network situational awareness and C2 capabilities, and allows for the interface with and assured movement of information from terrestrial, air and space-based networks, thus enabling Air Force Information Operations (AFINOps). All funds used for AFNet Systems support the continued establishment and transformation of the AFINOps construct toward the standards and specifications of the DoD Joint Information Environment (JIE). The procurement efforts in this program budget line include, but are not limited to, system equipment, engineering/integration, certification and accreditation, deployment, testing, training equipment/systems, associated training and interim contractor support. Procurements implement technology and capabilities within the AFNet in accordance with the DoD IT Roadmap, AF Information Dominance Flight Plan, AF Cyber Blueprint and the AF Network Action Plan. All activities may incorporate support to other program elements across the Air Force Information Enterprise in accordance with SAF/ CIO direction, the Data Center Optimization Initiative (DCOI), previously known as the Federal Data Center Consolidation Initiative (FDCCI), and the JIE strategy.

PE 0208088F, AIR FORCE CYBERSPACE DEFENSE Weapon System (ACD)
Provides defensive counter cyberspace capability that protects the AFNet and DoD network enclaves, to include their associated computer systems, software applications and sensitive operational information against unauthorized intrusion, corruption, and/or destruction. Beginning in FY21, Other Procurement Funding for ACD realigns from WSC 835080 AFNET to WSC 834320 C3 Countermeasures for clarity in reporting.

## PE 0208099F, UNIFIED PLATFORM (UP)

Procures capabilities to provide the Cyber Mission Forces (CMFs), U.S. Cyber Command (USCYBERCOM), and AF Major Commands a joint cyber operations infrastructure capable of mission planning, data analytics, and decision support for the execution of full-spectrum cyberspace operations through tactical levels of warfare. Funds procure hardware necessary for the effective deployment of operational capability to the CMFs. Beginning in FY21, Other Procurement Funding for UP realigns from WSC 835080 AFNET to WSC 834320 C3 Countermeasures for clarity in reporting.

PE 0303089F, CYBERSPACE OPERATIONS SYSTEMS

| Appropriation / Budget Activity / Budget Sub Activity: | P-1 Line Item Number / Title: |
| :--- | :--- |
| 3080F: Other Procurement, Air Force / BA 03: Electronics and Telecommunications | 835080 / AFNET |
| Equip / BSA 5: Air Force Communications |  |



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

This PE executes requirements for both AFINC and CSCS weapon systems. Funds may be used for other AFNet requirements if required.
(1) AIR FORCE INTRANET CONTROL (AFINC): Procures and installs equipment for network operations, network defense and overall management of the AF NIPRNet Gateways (GW), the Information Management Suite (IMS) and the base Service Delivery Point Routers as well as the Air Force discrete requirements associated with the Joint Regional Security Stacks (JRSS). Efforts include, but are not limited to: AFNet NIPR GW (MAC-1 system) and SIPR GW, which deliver critical network defense capabilities for the AF enterprise with over 800k users directly supporting flying, maintenance, space and cyber operations across the full range of military operations. GWs prevent and detect unauthorized network infiltration attempts and automatically initiate network defense countermeasures to eliminate the adversary's ability to gain access to the enterprise. With the migration of all Air Force installations to JRSS the Air Force will decommission the GWs. The IMS provides the Air Force with secure, real time, out of band network management for the weapon system infrastructure and unifies the management/defense of AF networks and assets. Funding includes recapitalization of the IMS as well as procures equipment upgrades that directly relate to the migration of AF traffic and technology transition from the AFNet NIPR Gateways to the JRSS.
(2) CYBERSPACE SECURITY AND CONTROL SYSTEM (CSCS): Procures and installs capabilities contributing to cyber mission assurance, including proactive defense and persistent network operations for the Air Force, the Air Force-provisioned portions of the DoD Information Network (DoDIN), and the Air Force Information Network (AFIN). CSCS modifications support the following activities: fault resolution to maintain operational capabilities; lead-in coordination activities at base-level Network Control Centers for necessary network security actions; monitoring of AF network services; managing of boundary protection devices and the Air Force network infrastructure; and continuous network situational awareness. Efforts include, but are not limited to: Data Center Consolidation and migration to the JIE; upgrade to the Core Services and the Air Force Vulnerability Management (AFVM) and Network Management.

FY21 funds will procure modifications for CSCS and AFINC. CSCS includes, but is not limited to, Vulnerability Management, Area Processing Center and Regional Data Center Consolidations, Installation Service Nodes (ISNs), Installation Processing Nodes (IPNs), Active Directory Exchange (ADX), Host Based Security System (HBSS), Enclave NIPR Firewall and ASIM Sustainment (ENFASS)(previously under ACD) and base boundaries. AFINC includes, but is not limited to, Gateway e-mail security/DNS upgrades, Dual Path Resiliency, and SDP Router tech refresh.

PE 0303228F, JOINT INFORMATION ENVIRONMENT (JIE)
JIE is not a new start. This effort was previously funded under PE 0303089F and is now under PE 0303228F.
JOINT INFORMATION ENVIRONMENT (JIE): This PE executes the requirements for JIE. Funds may be used for other AFNET requirements. DoD leadership has established and is tracking JIE implementation tasks that incrementally address diverse key categories that include but are not limited to: JRSS, Network Consolidation, Security, Enterprise Services, Application Rationalization, Enterprise Licensing, Mobility Service, Cloud Computing, and Installation types (e.g., Core Data Centers, Enterprise Operations Center, etc.). Much of the Increment 1 effort focuses on delivering and implementing reference and solution architectures and artifacts, developing TTPs needed to operate JIE capabilities (with global instantiation), defining and establishing an initial set of enterprise services, and establishing the governance processes critical to JIE management. Similar implementation tasks will be established for PACOM and CONUS during Increments 2 and 3 respectively. JIE funding may be used to maintain the current architecture of the AFNET while JIE implementation is ongoing.

FY21 funds will be used to implement the federal and DoD CIO mandated Multiprotocol Label Switching (MPLS) Router Network Time Division Multiplexing (TDM) to Internet Protocol (IP) transition as well as tech refresh provider edge (PE) routers installed in 2016. The funding will also be used to fund AFNET network infrastructure, security, and enterprise services initiatives that will ensure AF compliance and supportability of DoD cloud initiatives.

Funding for this exhibit is contained in PEs 0208088F, 0208099F, 0303089F, and 0303228F.

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

## Appropriation / Budget Activity / Budget Sub Activity:

3080F: Other Procurement, Air Force / BA 03: Electronics and Telecommunications Equip / BSA 5: Air Force Communications

| ID Code (A=Service Ready, B=Not Service Ready): A |  | Program Elements for Code B Items: N/A |  |  |  |  | Other Related Program Elements: 0208088F, 0208099F, 0303089F, 0303112F |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Line Item MDAP/MAIS Code: N/A |  |  |  |  |  |  |  |  |  |  |
| Exhibits Schedule |  |  |  |  | Prior Years | FY 2019 | FY 2020 | FY 2021 Base | FY 2021 OCO | FY 2021 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 | AF Defensive Cyberspace Operations |  |  |  | - 10.000 | - 130.044 | - /16.883 | - 10.000 | - 10.000 | - 10.000 |
| P-40a | Unified Platform (UP) |  |  |  | - 1 | - 10.000 | - 14.963 | - 1 | - 1 | 1 |
| P-3a | $1 /$ AFINC/CSCS WS 0303089 (Reliability \& Maintainability) |  | A |  | 1 - | - 142.552 | - /109.217 | - 184.515 | - 10.000 | - 184.515 |
| P-40a | Joint Regional Security Stacks (JRSS) |  |  |  | - 10.000 | - 10.000 | - 10.000 | - 10.000 | - 10.000 | - 10.000 |
| P-40 Total Gross/Weapon System Cost |  |  |  |  | - 10.000 | - 172.596 | - / 131.063 | - 184.515 | - 1 - | - 184.515 |
| Exhibits Schedule |  |  |  |  | FY 2022 | FY 2023 | FY 2024 | FY 2025 | 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 | AF Defensive Cyberspace Operations |  |  |  | - 10.000 | - 10.000 | - 10.000 | - 10.000 | - 10.000 | - 146.927 |
| P-40a | Unified Platform (UP) |  |  |  | - 1 - | 1 | 1 | - 1 - | - 1 | 1 |
| P-3a | $1 /$ AFINC/CSCS WS 0303089 (Reliability \& Maintainability) |  | A |  | - /69.346 | - 174.284 | - 171.840 | - / 43.286 | - 1 | - / 495.040 |
| P-40a | Joint Regional Security Stacks (JRSS) |  |  |  | - 19.579 | - 19.747 | - 19.921 | - 17.132 | - 10.000 | - 136.379 |
| P-40 | Total Gross/Weapon System Cost |  |  |  | - 178.925 | - 184.031 | - 181.761 | - 150.418 | - 1 | - $/ 583.309$ |

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

## Justification: <br> These programs support Cyberspace Activities.




 security/DNS upgrades, Dual Path Resiliency, and SDP Router tech refresh.

PE 0208088F, AF DEFENSIVE CYBERSPACE OPERATIONS (ACD)
Beginning in FY21, Other Procurement Funding for ACD realigns from WSC 835080 AFNET to WSC 834320 C3 Countermeasures for clarity in reporting.
PE 0208099F, UNIFIED PLATFORM (UP)
Beginning in FY21, Other Procurement Funding for UP realigns from WSC 835080 AFNET to WSC 834320 C3 Countermeasures for clarity in reporting.
PE 0303089F, CYBERSPACE OPERATIONS SYSTEMS

| Exhibit P-40, Budget Line Item Justification: PB 2021 Air Force | Date: February 2020 |
| :--- | :--- | :--- |
| Appropriation / Budget Activity / Budget Sub Activity: | P-1 Line Item Number / Title: |
| 3080F: Other Procurement, Air Force / BA 03: Electronics and Telecommunications | 835080 / AFNET |
| Equip / BSA 5: Air Force Communications |  |


| ID Code (A=Service Ready, B=Not Service Ready): A | Program Elements for Code B Items: N/A | Other Related Program Elements: 0208088F, 0208099F, <br> 0303089F, 0303112F |
| :--- | :--- | :--- |
| Line Item MDAP/MAIS Code: N/A |  |  |
| (1) AFINC: Procures and installs equipment for network operations, network defense and overall management of the AF NIPRNet Gateways as well as the Air Force discrete requirements associated with the <br> Joint Regional Security Stacks (JRSS). <br> (2) CSCS: Procures and installs capabilities contributing to cyber mission assurance, including proactive defense and persistent network operations for the Air Force and the Air Force-provisioned portions of the <br> DoD Information Network (DoDIN) and the Air Force Information Network (AFIN). <br> PE 0303228F, JOINT INFORMATION ENVIRONMENT (JIE) <br> JIE is not a new start. This effort was previously funded under PE 0303089F and is now under PE 0303228F. No Budget Year FY2020 funding was requested. <br> (1) JIE: Procures end items to support AF JIE implementation tasks that incrementally address key categories which include but are not limited to: JRSS, Network Consolidation, Security, Enterprise Services, <br> Application Rationalization, Enterprise Licensing, Mobility Service, Cloud Computing, and Installation Types. JIE funding may be used to maintain the current AFNET architecture while JIE implementation is <br> ongoing. |  |  |

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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 |
| :---: | :--- | :--- |
| Mod 1 0208088F / ACD WS 0208088F | ACD | Reliability \& Maintainability |

UNCLASSIFIED

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Date: February 2020 <br> Aggregated Items Title: Unified Platform (UP) |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3080F / 03 / 5 |  |  |  |  |  |  |  | P-1 Line Item Number / Title: <br> $835080 ~ / ~ A F N E T ~$ <br> $19 \quad$ FY 2020 |  |  |  | FY 2021 Base |  |  |  |  |  |  |  |  |
|  |  |  | Prior Years |  |  | FY 2019 |  |  |  |  |  | FY 2021 OCO | FY 2021 Total |  |  |  |  |  |  |  |
| Item Number / Title [DODIC] | $\begin{aligned} & \text { ID } \\ & \text { CD } \end{aligned}$ | $\begin{array}{\|l\|} \text { MDAPII } \\ \text { MAIS } \\ \text { code } \\ \hline \end{array}$ | 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 (\$ 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 (\$ M) | Unit Cost (\$ M) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | Total Cost (\$ M) |
| Unified Platform PE 28099F |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Unified Platiorm (UP) | A |  | - | - | - | - | - | 0.000 | 2.482 | 2 | 4.963 | - | - | - | - | - |  | - |  |  |
| Subtotal: Unified Platform PE 28099F |  |  | - | - | - | - | - | 0.000 | - | - | 4.963 | - | - | - | - | - |  | - | - |  |
| Total |  |  | - | - | - | $\cdot$ | - | 0.000 | - | - | 4.963 | - | - | - | $\cdot$ | - | - | - | - |  |

Note: Subtotals or Totals in this Exhibit P-40a may not be exact or sum exactly, due to rounding.
Remarks:
Beginning in FY21, Other Procurement Funding for Unified Platform (UP) realigns from WSC 835080 AFNET to WSC 834320 C3 Countermeasures for clarity in reporting.

Exhibit P-3a, Individual Modification: PB 2021 Air Force

## Appropriation / Budget Activity / Budget Sub Activity:

 3080F/03/5
## Date: February 2020

## Modification Number / Title: <br> 1/ AFINC/CSCS WS 0303089

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


| Resource Summary | Prior <br> Years | FY 2019 | FY 2020 | $\text { FY } 2021$ <br> Base | $\begin{gathered} \text { FY } 2021 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \text { FY } 2021 \\ \text { Total } \end{gathered}$ | FY 2022 | FY 2023 | FY 2024 | FY 2025 | To Complete | Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Procurement Quantity (Units in Each) | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Cost (\$ in Millions) | - | 42.552 | 109.217 | 84.515 | 0.000 | 84.515 | 69.346 | 74.284 | 71.840 | 43.286 | - | 495.040 |
| Less PY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Net Procurement (P-1) (\$ in Millions) | - | 42.552 | 109.217 | 84.515 | 0.000 | 84.515 | 69.346 | 74.284 | 71.840 | 43.286 | - | 495.040 |
| Plus CY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Total Obligation Authority (\$ in Millions) | - | 42.552 | 109.217 | 84.515 | 0.000 | 84.515 | 69.346 | 74.284 | 71.840 | 43.286 | - | 495.040 |

(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 0303089F, CYBERSPACE OPERATIONS SYSTEMS
This PE executes requirements for both AFINC and CSCS weapon systems. Funds may be used for other AFNet requirements if required.





 that directly relate to the migration of AF traffic and technology transition from the AFNet NIPR Gateways to the JRSS.



 Services and the Air Force Vulnerability Management (AFVM) and Network Management.

 ACD) and base boundaries. AFINC includes, but is not limited to, Gateway e-mail security/DNS upgrades, Dual Path Resiliency, and SDP Router tech refresh.

Milestone/Development Status
Sustainment

## UNCLASSIFIED

| Exhibit P-3a, Individual Modification: PB 2021 Air Force |  |  |  |  |  |  |  |  | Date: February 2020 |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3080F / 03 / 5 |  |  | P-1 Line Item Number / Title: 835080 / AFNET |  |  |  |  |  | Modification Number / Title: 1 / AFINC/CSCS WS 0303089 |  |  |  |
| ID Code (A=Service Ready, B=Not Service Ready) : A |  |  |  |  | MDAP/MAIS Code: |  |  |  |  |  |  |  |
| Models of Systems Affected: AFINC-CSCS-WS |  | Modification Type: Reliability \& Maintainability |  |  |  |  | Related RDT\&E PEs: 0303112F |  |  |  |  |  |
|  | Prior Years | FY 2019 | FY 2020 | $\begin{aligned} & \text { FY } 2021 \\ & \text { Base } \end{aligned}$ | $\begin{aligned} & \text { FY } 2021 \\ & \text { OCO } \end{aligned}$ | $\begin{gathered} \text { FY } 2021 \\ \text { Total } \end{gathered}$ | FY 2022 | FY 2023 | FY 2024 | FY 2025 | To Complete | Total |
| Financial Plan | $\begin{gathered} \text { Qty (Each) I } \\ \text { Total Cost (\$ M) } \end{gathered}$ | $\begin{array}{\|c\|} \hline \text { Qty (Each) I } \\ \text { Total Cost (\$ M) } \end{array}$ | $\begin{array}{\|c\|} \hline \text { Qty (Each) I } \\ \text { Total Cost (\$M) } \\ \hline \end{array}$ | $\begin{array}{\|c\|} \hline \text { Qty (Each) I } \\ \text { Total Cost (\$ M) } \\ \hline \end{array}$ | $\begin{array}{\|c\|} \hline \text { Oty (Each) I } \\ \text { Total Cost (\$ M) } \\ \hline \end{array}$ | $\begin{array}{\|c\|} \hline \text { Qty (Each) I } \\ \text { Total Cost }(\$ \mathrm{M}) \\ \hline \end{array}$ | $\begin{array}{\|c\|} \hline \text { Qty (Each) I } \\ \text { Total Cost }(\$ M) \\ \hline \end{array}$ | $\begin{gathered} \text { Oty (Each) I } \\ \text { Total Cost (\$ M) } \\ \hline \end{gathered}$ | $\begin{array}{\|c\|} \hline \text { Qty (Each) I } \\ \text { Total Cost }(\$ \mathrm{M}) \\ \hline \end{array}$ | $\begin{array}{\|c\|} \hline \text { Qty (Each) I } \\ \text { Total Cost (\$M) } \\ \hline \end{array}$ | $\begin{gathered} \text { Oty (Each) I } \\ \text { Total Cost (\$ M) } \\ \hline \end{gathered}$ | $\begin{gathered} \text { Qty (Each) I } \\ \text { Total Cost (\$M) } \end{gathered}$ |
| Procurement |  |  |  |  |  |  |  |  |  |  |  |  |
| Modification Item 1 of 1: AFINC/CSCS WS MODs |  |  |  |  |  |  |  |  |  |  |  |  |
| B Kits |  |  |  |  |  |  |  |  |  |  |  |  |
| Recurring |  |  |  |  |  |  |  |  |  |  |  |  |
| AFINC/CSCS WS MODs:EQUIPMENT Group B (Active) | $1-$ | 1/31.850 | 1/92.315 | 1/72.779 | 1 | 1/72.779 | 1/56.482 | 1/60.667 | 1/57.718 | 1/31.148 | - 1 - | 7/402.959 |
| Subtotal: Recurring | - 1- | - 131.850 | - /92.315 | - 172.779 | -1- | - 172.779 | - /56.482 | - /60.667 | - /57.718 | - 131.148 | 1 | - /402.959 |
| Subtotal: AFINC/CSCS WS MODs | 1 - | - 131.850 | - /92.315 | - 172.779 | 1 - | - 172.779 | - /56.482 | - /60.667 | - 157.718 | - /31.148 | - 1 - | - /402.959 |
| Subtotal: Procurement, All Modification Items | -1- | - /31.850 | - /92.315 | - 172.779 | 1 | - 172.779 | - /56.482 | - /60.667 | - /57.718 | - 131.148 | - 1 - | - 1402.959 |
| Support (All Modification Items) |  |  |  |  |  |  |  |  |  |  |  |  |
| GROUP B: TOTAL NONRECURRING | - 1 - | - 10.000 | - 10.000 | - 10.000 | - 10.000 | - 10.000 | - 10.000 | - 10.000 | - 10.000 | - 10.000 | 1. | - 10.000 |
| PMA - Contractor Services | - 1- | - 19.308 | - 116.206 | - 111.157 | - 1 - | - 111.157 | - 112.274 | - 113.015 | - /13.518 | - 111.523 | - 1 - | - 187.001 |
| PMA - Other Gov't Costs | -1- | - 11.394 | - 10.696 | - 10.579 | - 1- | - 110.579 | - 10.590 | - 10.602 | - 10.604 | - 10.615 | - 1 - | - 15.080 |
| Subtotal: Support | - 1. | - /10.702 | - /16.902 | - /11.736 | - 10.000 | - /11.736 | - /12.864 | - /13.617 | - /14.122 | - /12.138 | - 1 | - 192.081 |
| Installation |  |  |  |  |  |  |  |  |  |  |  |  |
| Subtotal: Installation | - 1. | - / - | - 1 - | - $1 \cdot$ | 1. | - 1 - | - 1 - | - 1 - | 1 | - $1 \cdot$ | - 1 - | - 1- |
| Total |  |  |  |  |  |  |  |  |  |  |  |  |
| Total Cost (Procurement + Support + Installation) | $\cdot$ | 42.552 | 109.217 | 84.515 | 0.000 | 84.515 | 69.346 | 74.284 | 71.840 | 43.286 | $\cdot$ | 495.040 |

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| Exhibit P-3a, Individual Modification: PB 2021 Air Force |  |  |  |  |  | Date: February 2020 |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3080F / 03 / 5 |  |  | P-1 Line Item Number / Title: 835080 / AFNET |  |  | Modification Number / Title: 1 I AFINC/CSCS WS 0303089 |  |
| ID Code (A=Service Ready, B=Not Service Ready) : A |  |  |  | MDAP/MAIS Code: |  |  |  |
| Modification Item 1 of 1: AFINC/CSCS WS MODs |  |  |  |  |  |  |  |
| Manufacturer Information |  |  |  |  |  |  |  |
| Manufacturer Name: Multiple |  |  |  | Manufacturer Location: Various |  |  |  |
| Administrative Leadtime (in Months): 7 |  |  |  | Production Leadtime (in Months): 12 |  |  |  |
| Dates | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 |
| Contract Dates | May 2019 | May 2020 | May 2021 | May 2022 | May 2023 | May 2024 | May 2025 |
| Delivery Dates | May 2020 | May 2021 | May 2022 | May 2023 | May 2024 | May 2025 | May 2026 |
|  |  |  |  |  |  |  |  |
| Installation Information |  |  |  |  |  |  |  |
| Method of Implementation (Organic): Org/Intermediate |  |  |  |  | Installati | ntity: 7 |  |

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| Exhibit P-40a, Budget Item Justification For Aggregated Modification Items: PB 2021 Air Force ${ }^{\text {a }}$ D |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Date: February 2020 |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3080F / 03/5 |  |  |  |  |  |  |  | P-1 Line Item Number / Title: 835080 / AFNET |  |  |  |  |  |  | Aggregated Modification Items Title: Joint Regional Security Stacks (JRSS) |  |  |  |  |  |
|  |  |  | Prior Years |  |  | FY 2019 |  |  | FY 2020 |  |  | FY 2021 Base |  |  | FY 2021 OCO |  |  | FY 2021 Total |  |  |
| Item Number / Title | $\begin{aligned} & \mathrm{ID} \\ & \mathrm{CD} \end{aligned}$ | $\begin{array}{\|c\|c\|} \hline \text { MDAPI } \\ \text { MAIS } \\ \text { Code } \\ \hline \end{array}$ | 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 <br> (\$ M) | Unit Cost (\$ M) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | Total Cost <br> (\$ M) | Unit Cost (\$ M) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | $\begin{aligned} & \text { Total } \\ & \text { Cost } \\ & (\$ M) \\ & \hline \end{aligned}$ | Unit Cost (\$ M) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | Total Cost <br> (\$ M) | Unit Cost (\$ M) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | $\begin{aligned} & \text { Total } \\ & \text { Cost } \end{aligned}$ $(\$ M)$ |
| JE-1/ JIE-Mod |  |  | - |  | 0.000 | - | - | 0.000 | - |  | - |  |  | 0.000 | - |  | - |  |  | 0.000 |
| Total |  |  |  |  | 0.000 | - |  | 0.000 | - |  | 0.000 |  | - | 0.000 |  |  | 0.000 |  |  | 0.000 |
|  |  |  | FY 2022 |  |  | FY 2023 |  |  | FY 2024 |  |  | FY 2025 |  |  | To Complete |  |  | Total Cost |  |  |
| Item Number / Title | $\begin{array}{\|c\|} \text { ID } \\ \text { CD } \end{array}$ | $\begin{array}{\|l\|l\|} \hline \text { MDAP/ } \\ \text { MAIS } \\ \text { Code } \end{array}$ | 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) | 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) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | $\begin{aligned} & \hline \text { Total } \\ & \text { Cost } \\ & (\$ M) \\ & \hline \end{aligned}$ |
| JIE-1/ JIE-Mod |  |  | - |  | 9.579 | - | - | 9.747 | - |  | 9.921 | - | - | 7.132 | - | - | - | - |  | 36.379 |
| Total |  |  | - | $\cdot$ | 9.579 | - | - | 9.747 | - | - | 9.921 | - | - | 7.132 | - | - | 0.000 | - |  | 36.379 |

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 |
| :--- | :--- | :--- |
| JIE-1 / JIE-Mod | JIE | Reliability \& Maintainability |

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

## Appropriation / Budget Activity / Budget Sub Activity:

3080F: Other Procurement, Air Force / BA 03: Electronics and Telecommunications Equip / BSA 5: Air Force Communications

| 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 2019 | FY 2020 | $\text { FY } 2021$ <br> Base | $\begin{gathered} \text { FY } 2021 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \text { FY } 2021 \\ \text { Total } \end{gathered}$ | FY 2022 | FY 2023 | FY 2024 | FY 2025 | To Complete | Total |
| Procurement Quantity (Units in Each) | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Cost (\$ in Millions) | - | 3.145 | 6.505 | 6.185 | - | 6.185 | 5.467 | 5.562 | 5.661 | 5.765 | - | 38.290 |
| Less PY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Net Procurement (P-1) (\$ in Millions) | - | 3.145 | 6.505 | 6.185 | - | 6.185 | 5.467 | 5.562 | 5.661 | 5.765 | - | 38.290 |
| Plus CY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Total Obligation Authority (\$ in Millions) | - | 3.145 | 6.505 | 6.185 | - | 6.185 | 5.467 | 5.562 | 5.661 | 5.765 | - | 38.290 |
| (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:






 (DJSM)0291-14, the Air Force is mandated to fund 1/3rd fair share of JCSE's validated Modernization Program.

Funding for this exhibit is contained in PE 0207422F, Deployable Command, Control, and Communications (C3) Systems.

Exhibit P-40, Budget Line Item Justification: PB 2021 Air Force
Date: February 2020

## Appropriation / Budget Activity / Budget Sub Activity:

3080F: Other Procurement, Air Force / BA 03: Electronics and Telecommunications Equip / BSA 5: Air Force Communications

| 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 2019 | FY 2020 | FY 2021 Base | FY 2021 OCO | FY 2021 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-40a | Joint Communications Support Element (JCSE) |  |  |  | - 1 - | - 13.145 | - 16.505 | - 16.185 | - 1 | - 16.185 |
| P-40 | Total Gross/Weapon System Cost |  |  |  | - 1 - | - 13.145 | - 16.505 | - 16.185 | - 1 | - 16.185 |

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

## Justification:







 plan through recommendations in concert with Major Defense Acquisition Program (MDAP) schedules, ensuring that Service dollars meet Joint Service requirements.

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Exhibit P-40, Budget Line Item Justification: PB 2021 Air Force
Date: February 2020
Appropriation / Budget Activity / Budget Sub Activity:
3080F: Other Procurement, Air Force / BA 03: Electronics and Telecommunications
Equip / BSA 5: Air Force Communications

## P-1 Line Item Number / Title: <br> 835140 / USCENTCOM

 Equip / BSA 5: Air Force Communications| 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 2019 | FY 2020 | $\text { FY } 2021$ Base | $\begin{gathered} \text { FY } 2021 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \text { FY } 2021 \\ \text { Total } \end{gathered}$ | FY 2022 | FY 2023 | FY 2024 | FY 2025 | To Complete | Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Procurement Quantity (Units in Each) | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Cost (\$ in Millions) | - | 8.194 | 20.190 | 19.649 | - | 19.649 | 18.303 | 18.624 | 18.959 | 19.305 | - | 123.224 |
| Less PY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Net Procurement (P-1) (\$ in Millions) | - | 8.194 | 20.190 | 19.649 | - | 19.649 | 18.303 | 18.624 | 18.959 | 19.305 | - | 123.224 |
| Plus CY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Total Obligation Authority (\$ in Millions) | - | 8.194 | 20.190 | 19.649 | - | 19.649 | 18.303 | 18.624 | 18.959 | 19.305 | - | 123.224 |
| (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:

PE 0201122F USCENTCOM COMMUNICATIONS
HQ USCENTCOM's mission is to work with its national and international partners in promoting development and cooperation among nations, responding to crises, and deterring or defeating state and transnational aggression in order to establish regional security and stability across its entire Area of Responsibility (AOR). Since USCENTCOM's AOR, covering the Middle East, includes the challenges of regional stability and violent extremists, this Combatant Command's mission is critical in regards to the Overseas Contingency Operations (OCO). To meet its mission responsibilities across this geographical expanse, HQ USCENTCOM must rely heavily on Command, Control, Communications, and Computer (C4) systems capable of achieving full spectrum information superiority.

Funding for this effort is contained in PE 0201122F USCENTCOM Communications.
USCENTCOM COMMAND AND CONTROL SYSTEMS: Effort will provide end of life replacement for, but not limited to, Command and Control (C2) systems (thin client, server, etc), Joint Information Environment (JIE), classified and unclassified voice, data and video dissemination, storage area network (SAN) infrastructure, establishment of mission partner networks such as but not limited to; CENTCOM Partner Network (CPN), CENTCOM Partner Network Extended (CPN-X), Mission Partner Environment Information System (MPE-IS), and other coalition partner networks which provide secure networks for bilateral / multilateral information sharing up to the SECRET RELEASABLE level. Support maximum data storage capacity requirements for HQ war records collection, Modeling \& Simulation Systems (J8MS), and uninterrupted power supply (UPS) required for the command's collateral classified and unclassified data networks. This equipment provides HQ USCENTCOM with effective C4 systems to effectively conduct current and future operations throughout the AOR.

PE 0201131F AIR COMBAT COMMAND (ACC) COMMUNICATIONS
Air Forces United States Central Command (AFCENT) is the ACC component designated to support USCENTCOM operations in deployed theaters for the AF. Funds C4 systems throughout the area of responsibility (AOR). Procurement efforts include: communications infrastructure requirements, satellite terminal equipment, data network servers and associated information assurance tools, information transfer nodes and routers, joint radio relays, as well as deployed air traffic control and landing systems and navigational aid systems. AFCENT funds/support our portion of CENTCOM directed mission partner initiatives such as CPN X to ensure interoperability.

Funding for this effort is contained in PE 0201131F AIR COMBAT COMMAND (ACC) COMMUNICATIONS
Appropriation / Budget Activity / Budget Sub Activity:
3080F: Other Procurement, Air Force / BA 03: Electronics and Telecommunications
Equip / BSA 5: Air Force Communications

## P-1 Line Item Number / Title: 835140 / USCENTCOM

 Equip / BSA 5: Air Force Communications| 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 |  |  |

Line Item MDAP/MAIS Code: N/A

| Exhibits Schedule |  |  |  |  | Prior Years | FY 2019 | FY 2020 | FY 2021 Base | FY 2021 OCO | FY 2021 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 | USCENTCOM Communications |  |  |  | 1 - | - 12.084 | - 14.720 | - 14.592 | 1 | - 14.592 |
| P-40a | Service Support to USCENTCOM - Communications |  |  |  | 1 - | - 16.110 | - / 15.470 | - / 15.057 | 1 | - / 15.057 |
| P-40 | Total Gross/Weapon System Cost |  |  |  | 1 - | - 18.194 | - 120.190 | - / 19.649 | 1 | - / 19.649 |

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

## Justification:

PE 0201122F USCENTCOM COMMUNICATIONS

 Technology (IT) supporting the command must be replaced to meet the ever increasing demands of current, ongoing contingency operations, and the growth of data storage requirements.
 implemented.

## PE 0201131F AIR COMBAT COMMAND (ACC) COMMUNICATIONS FY21 funds will provide:



 Aircraft System technologies and new technologies for air domain awareness. Replacement for aged Air Traffic Control And Landing Systems equipment is required.

 from tactical support to enduring infrastructure.
 community to implement the Joint Information Environment to include cloud infrastructure and digital transformation capabilities.



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| Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2021 Air Force |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Date: February 2020 <br> Aggregated Items Title: <br> USCENTCOM Communications |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3080F / 03 / 5 |  |  |  |  |  |  |  | P-1 Line Item Number / Title: 835140 / USCENTCOM |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  | ior Yea |  | FY 2019 |  |  | FY 2020 |  |  | FY 2021 Base |  |  | FY 2021 OCO |  |  | FY 2021 Total |  |  |
| Item Number / <br> Title [DODIC] | $\begin{aligned} & \text { ID } \\ & \text { CD } \end{aligned}$ | MDAP/ MAIS Code | 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 <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 (\$ M) | Unit Cost (\$ M) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost (\$ M) |
| Uncategorized |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| USCENTCOM COMMAND AND CONTROL SYSTEM | A |  | - | - | - | 2.084 |  | 1.2 .084 | 4.720 | 1 | 4.720 | 4.592 | 1 | 4.592 | - | - | - | 4.592 | 1 | 4.592 |
| Subtotal: Uncategorized |  |  | - | - | - | - |  | 2.084 | - | - | 4.720 | - | - | 4.592 | - | - | - | - | - | 4.592 |
| Total |  |  | - | - | - | - | - | 2.084 | - | - | 4.720 | - | - | 4.592 | - | - | - | - | - | 4.592 |
| Note: Subtotals or Totals in this Exhibit P-40a may not be exact or sum exactly, due to rounding. <br> Remarks: <br>  <br>  command must be replaced to meet the ever increasing demands of enduring operations and the growth of data storage requirements, as well as emergent cyber threats. |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

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Exhibit P-40, Budget Line Item Justification: PB 2021 Air Force
Date: February 2020

## Appropriation / Budget Activity / Budget Sub Activity:

3080F: Other Procurement, Air Force / BA 03: Electronics and Telecommunications Equip / BSA 5: Air Force Communications

| ID Code (A-Serice Ready, $\mathrm{B=} \mathrm{Not} \mathrm{Senice} \mathrm{Ready)}$ A | Program Elements for Code B Items: N/A | Other Related Program Elements: N |
| :---: | :---: | :---: |

Line Item MDAP/MAIS Code: N/A

| Resource Summary | Prior <br> Years | FY 2019 | FY 2020 | $\begin{gathered} \text { FY } 2021 \\ \text { Base } \end{gathered}$ | $\begin{gathered} \text { FY } 2021 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \text { FY } 2021 \\ \text { Total } \end{gathered}$ | FY 2022 | FY 2023 | FY 2024 | FY 2025 | To Complete | Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Procurement Quantity (Units in Each) | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Cost (\$ in Millions) | - | 0.000 | 11.244 | 4.337 | - | 4.337 | 4.450 | 4.527 | 4.610 | 4.695 | - | 33.863 |
| Less PY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Net Procurement (P-1) (\$ in Millions) | - | 0.000 | 11.244 | 4.337 | - | 4.337 | 4.450 | 4.527 | 4.610 | 4.695 | - | 33.863 |
| Plus CY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Total Obligation Authority (\$ in Millions) | - | 0.000 | 11.244 | 4.337 | - | 4.337 | 4.450 | 4.527 | 4.610 | 4.695 | - | 33.863 |
| (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:



 will continue to be reported under PE 0303255F, but is a separate program included in BPAC 835160.

This is not a new start.


 services. This effort was previously referred to as "C2 Modernization and reported under BPAC 833140, PE 0303255F and is NOT a new start.

Beginning in FY20 this program will be captured under the USSTRATCOM IT Enterprise construct, BPAC 835160, PE 0101301F

 crises.

Beginning in FY20 this program will be captured under the USSTRATCOM IT Enterprise construct, BPAC 835160, PE 0101301F

 attack warning information. Processing and Display Subsystem - Migration (PDS-M) will continue to provide the commander with missile attack warning information

## UNCLASSIFIED

Page 1 of 2
P-1 Line \#45
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## Appropriation / Budget Activity / Budget Sub Activity: <br> 3080F: Other Procurement, Air Force / BA 03: Electronics and Telecommunications

 Equip / BSA 5: Air Force Communications| 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

## Beginning in FY20 this program will be captured under the USSTRATCOM IT Enterprise construct, BPAC 835160, PE 0101301F

d. GLOBAL DISTRIBUTED COMMAND AND CONTROL (GDC2): Detailed information is classified and will be provided on a need to know basis. For further information please contact the Strategic C2 Systems Branch (SAF/AQID) at (202) 404-3405. This effort will not be reported as part of the IT Enterprise. GDC2 will continue to be reported under PE 0303255 F within BPAC 835160
e. USSTRATCOM REPLACEMENT FACILITY FIT-OUT: No funding in FY20 and out

## Justification:

USSTRATCOM IT Enterprise - This effort provides the Command and Control infrastructure and hardware to acquire, process, and deliver information, as needed, to enable and enhance decision making for USSTRATCOM. USSTRATCOM is tasked with vital roles for our nation. These roles require secure and survivable infrastructure in order to conduct strategic planning, warfighting operations, provide global situational awareness to the National Command Authorities and Combatant Commands, aid the President's nuclear response decision-making process. This effort employs a set of underlying information services, technologies, and tools to ensure a standard configuration of information technology architecture that operationalizes USSTRATCOM's mission priorities, with a Combat-Ready Force prepared for Decisive Response. The enterprise architecture is a collection of distributed databases and applications, integrated through a cloud-based infrastructure. The facility includes features and capabilities such as secure High-Altitude Electromagnetic Pulse (HEMP) Shielded Command and Control Center, Installation Processing Node, multiple 24/7 mission operations centers, storage and maintenance areas, labs/ workrooms, backup generators, Uninterruptible Power Source, and Technical Control Facility.

Exhibit P-40, Budget Line Item Justification: PB 2021 Air Force
Date: February 2020
Appropriation / Budget Activity / Budget Sub Activity:
3080F: Other Procurement, Air Force / BA 03: Electronics and Telecommunications
Equip / BSA 7: Organization and Base

P-1 Line Item Number / Title:
837100 / Tactical C-E Equipment
ID Code (A=Service Ready, B=Notservice Ready: A

Program Elements for Code B Items: N/A
Other Related Program Elements: 0207422F, 0207444F, 0503133F Line Item MDAP/MAIS Code: N/A

| Resource Summary | Prior <br> Years | FY 2019 | FY 2020 | $\text { FY } 2021$ <br> Base | $\begin{gathered} \text { FY } 2021 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \text { FY } 2021 \\ \text { Total } \end{gathered}$ | FY 2022 | FY 2023 | FY 2024 | FY 2025 | To Complete | Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Procurement Quantity (Units in Each) | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Cost (\$ in Millions) | - | 166.249 | 144.063 | 137.033 | 0.000 | 137.033 | 192.451 | 125.128 | 119.051 | 110.052 | - | 994.027 |
| Less PY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Net Procurement (P-1) (\$ in Millions) | - | 166.249 | 144.063 | 137.033 | 0.000 | 137.033 | 192.451 | 125.128 | 119.051 | 110.052 | - | 994.027 |
| Plus CY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Total Obligation Authority (\$ in Millions) | - | 166.249 | 144.063 | 137.033 | 0.000 | 137.033 | 192.451 | 125.128 | 119.051 | 110.052 | - | 994.027 |
| (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:

PE 0207418F AFSPECWAR - TACP - P-5
PE 0207418F TACTICAL AIRBORNE CONTROL SYSTEM EQUIPMENT
Tactical airborne control system equipment encompass three types of simulators that provide scenario based training for Joint Terminal Attack Controllers (JTACs), Combat Control Teams (CCTs), Tactical Air Control Party (TACPs), Air Support Operations Centers (ASOCs) and various Close Air Support (CAS) Platforms.
Joint Terminal Control Training and Rehearsal System (JTC TRS): TACP fixed-site (dome and desktop configurations) and portable Simulators comprise JTC TRS. These simulators provide realistic training to operations personnel for planning, coordinating and controlling close air support in support of ground forces engaged in combat operations by providing both a stand-alone and Distributed Mission Operations (DMO)-capable high-fidelity JTAC and joint fire support simulation system. The JTC TRS is capable of connecting to DMO networks to allow geographically separated high-fidelity close air support, C2 (including ASOC) and ISR platforms with JTACs and CCTs to train together in a risk-free environment to develop the skills required to support the National Defense Strategy (NDS). The fixed-site and portable simulators enable operators to conduct Joint Close Air Support (JCAS) training/mission rehearsal using tailored, dynamic scenarios that are relevant to mission tasking. The primary focus is to provide a virtual training environment for networked air-ground training and mission rehearsal capability that will develop both JTAC and CCT skills and train aircrew to accomplish complex JCAS missions in close proximity to friendly ground forces. JTAC simulators are fully interoperable with joint/other service air ground simulation systems using common DoD and industry standards. Training with simulators has the potential to reduce civilian casualties, collateral damage and fratricide by improving coordination skills between air and ground personnel, and increasing JTAC, CCT, and aircrew proficiency. The acquisition strategy for production and sustainment of the fixed configuration of the JTC TRS is being executed as an evolutionary acquisition approach using incremental development. Fielding of the initial domed and desktop system capability was completed EoCY 2019. Operational units have quickly integrating these systems into training programs to facilitate more realistic and affordable training than can be achieved in the live training environment. Requirements for additional numbers of systems have been approved by the MAJCOMs to support increased JTAC and CCT qualification and readiness for deployable JTACs, and manpower growth IAW AF Program Action Directives. Program efforts are ongoing to include removal of end-of-life software/hardware within the simulator systems to maintain a modular, common open system architecture that is sustainable and cyber-resilient. Implementation requirements and standards are defined under the Simulator Common Architecture Requirements and Standards (SCARS) initiative. Funds may be used to address emerging and short-notice Diminishing Manufacturing Sources and Material Shortage (DMSMS) issues.

PE 0207422F Deployable C3 Systems - P-40A
Deployable C3 Systems PE 0207422F - P-40A
PE 0207422F DEPLOYABLE COMMAND, CONTROL, and COMMUNICATIONS (C3) SYSTEMS

| Appropriation / Budget Activity / Budget Sub Activity: |
| :--- |
| 3080F: Other Procurement, Air Force / BA 03: Electronics and Telecommunications |
| Equip / BSA 7: Organization and Base |

## P-1 Line Item Number / Title:

837100 / Tactical C-E Equipment

ID Code (A=Service Ready, B=Not Service Ready): A
Program Elements for Code B Items: N/A
Other Related Program Elements: 0207422F, 0207444F, 0503133F

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









 D) components.
 Manufacturing Sources (DMS) issues associated with COTS components and ensures TDC maintains compliance with security mandates/directives and cryptographic standards.
 support, and the configurations of the three components. Size of recapitalization packages vary from year to year.



 operations.


 network as the base population increases.

 communication hub and these Core Services will be the focus of the Flexible Communications Package (FCP).



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

Funding for this exhibit contained in PE 0207422F.

| Appropriation / Budget Activity / Budget Sub Activity: |
| :--- |
| 3080F: Other Procurement, Air Force / BA 03: Electronics and Telecommunications |
| Equip / BSA 7: Organization and Base |

## P-1 Line Item Number / Title:

837100 / Tactical C-E Equipment

ID Code (A=Service Ready, B=Not Service Ready): A
Program Elements for Code B Items: N/A
Other Related Program Elements: 0207422F, 0207444F, 0503133F

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

FY19 funding totals include $\$ 2.911 \mathrm{M}$ appropriated for Overseas Contingency Operations.
FY20 funding totals include $\$ 0.306 \mathrm{M}$ appropriated for Overseas Contingency Operations.
PE 0207423F Advanced Communications Systems - P-40A
Advanced Communications Systems PE 0207423F
PE 0207423F Mobile User Objective System (MUOS) and TACTICAL RADIO SYSTEMS (TRS)
Tactical Radio System (TRS) are commercial off the shelf software programmable tactical radios that provide voice, data, and video communications for military users in the air, on the ground, and at sea.
Common radio architecture and programmable software waveforms will provide joint interoperability between the services. The TRS program is built around an open system software communications architecture (SCA), a critical set of rules that make software programmable radios function properly and ensure interoperability. Funding for this exhibit is contained in PE $0207423 F$.

PE 0207444F Tactical Air Control Party-Mod - P-5
TACTICAL AIR CONTROL PARTY-MODERNIZATION (TACP-M): TACPs are Air Force units manned by airmen who advise Army Ground Commanders and plan, request and control air power in support of army ground maneuver operations.

The purpose of the TACP-Modernization program is to upgrade TACP voice, data and video communications capabilities, upgrade targeting capabilities, and improve TACP battlefield awareness capabilities These capabilities are employed at all echelons of Army organizations by: Air Support Operation Centers (ASOCs), Division TACPs, Brigade TACPs, Battalion TACPs, and Joint Terminal Attack Controllers (JTACs) deployed with Army companies or scout teams on the front lines. Improved targeting and data communications capabilities provide more accurate target coordinates, reduce close air support (CAS) response times, and reduce the probability of fratricide or collateral damage through the use of networked data communications.

TACPs also coordinate, request, and control airlift support and intelligence, surveillance, and reconnaissance (ISR) support for Army combat operations, and they provide ground communications support for federal disaster response and Homeland Defense operations. TACPs deploy with their aligned Army units and operate in a variety of environments including fixed operations from tactical operations centers (TOCs), mobile operations in tactical vehicles, and dismounted (on foot) operations with Army infantry patrols.

The TACP-M program provides and modernizes capabilities in three major areas: Operation Center Systems, Vehicle-Mounted Systems, and Close Air Support System (CASS) software. The TACP-M program also works closely with the Battlefield Airmen Office program to procure dismounted JTAC equipment. This teaming arrangement helps standardize battlefield airmen equipment, improve efficiency by consolidating acquisition efforts, and often reduces unit costs by increasing procurement quantities. Frequent TACP combat deployments sometimes lead users to change equipment procurement priorities to support urgent operational needs and respond to evolving threat environments.

PE 0408011F Special Tactics / Combat Control - P-5
PE 0408011F SPECIAL TACTICS / COMBAT CONTROL
BATTLEFIELD AIRMEN OPERATIONS KIT (BAO Kit): BAO Kit will deliver a Family of Systems (FoS) that provides a state-of-the-art Command, Control, Communications, Computer, Intelligence, Surveillance and Reconnaissance (C4ISR) and also provides a family of systems for all Air Force Specialty Codes supporting the Special Tactics (ST) community within the Air Force Special Operations Command's (AFSOC's) Battlefield Airmen Program. This program will procure and enhance technologies for battlefield airmen ST operators that are inter-operable with US and coalition special operations dismounted forces. BAO Kit allows the ability to recognize, identify, range, nominate, and designate targets during both day and night. BAO Kit will also significantly reduce the time required to find, fix, track, target, and engage the enemy by providing highly accurate target grid coordinates in three dimensions, generating target imagery both pre-and post-strike, and transmitting target data to command and control centers. BAO Kit systems are light, compact, and portable for use by dismounted Battlefield Airmen. Modernization efforts focus on reducing the weight of the equipment carried by the dismounted operator. The core capabilities include but are not restricted to: Human Machine Interface (HMI), Operational Control System (OCS), Line of Sight (LOS) targeting device, Non Line of Sight (XLOS) targeting device, and Machine-to-Machine C4ISR System. BAO also supports AFSOC Tactical Command and Control (TAC C2) program purchases enhanced communication systems and equipment essential for ST combat controllers, pararescue, combat

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

## Appropriation / Budget Activity / Budget Sub Activity: <br> 3080F: Other Procurement, Air Force / BA 03: Electronics and Telecommunications

P-1 Line Item Number / Title:
837100 / Tactical C-E Equipment
Equip / BSA 7: Organization and Base
ID Code (A=Service Ready, B=Not Service Ready): A
Program Elements for Code B Items: N/A
Other Related Program Elements: 0207422F, 0207444F, 0503133F

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

weather operators, and tactical air control parties to perform their mission and communicate Beyond Line of Site (BLOS) with rear echelon C2, in order to provide a joint operating picture. The ST operators use this equipment to gather and transmit assault zone suitability and weather data and to perform tactical airfield/assault landing/drop zone operations. Items include but not limited to training, initial spares, repairs and returns, and other equipment.

Funding for this exhibit contained in PE 0408011F.
PE 0503133F Combat Rescue - Pararescue (AFR) - P-40A
PE 0503133F: COMBAT RESCUE - PARARESCUE (AFR)
Tactical communications and electrical equipment in support of special operations forces. No funding for FY21

| Secondary Distribution |  | FY 2019 | FY 2020 | FY 2021 <br> Base | $\begin{aligned} & \text { FY } 2021 \\ & \text { OCO } \end{aligned}$ | $\begin{gathered} \text { FY } 2021 \\ \text { Total } \end{gathered}$ | FY 2022 | FY 2023 | FY 2024 | FY 2025 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| AF | Quantity | 2,942 | 2,406 | 60 | 0 | 60 | - | - | - | - |
|  | Total Obligation Authority | 144.309 | 115.966 | 111.532 | 0.000 | 111.532 | - | - | - | - |
| AFNG | Quantity | 68 | 59 | 91 | 0 | 91 | - | - | - | - |
|  | Total Obligation Authority | 18.415 | 23.333 | 20.893 | 0.000 | 20.893 | - | - | - | - |
| AFR | Quantity | 15 | 12 | 18 | 0 | 18 | - | - | - | - |
|  | Total Obligation Authority | 3.525 | 4.764 | 4.608 | 0.000 | 4.608 | - | - | - | - |
| Total: <br> Secondary Distribution | Quantity | 3,025 | 2,477 | 169 | 0 | 169 | - | - | - | - |
|  | Total Obligation Authority | 166.249 | 144.063 | 137.033 | 0.000 | 137.033 | - | - | - | - |

## Appropriation / Budget Activity / Budget Sub Activity: <br> 3080F: Other Procurement, Air Force / BA 03: Electronics and Telecommunications

 Equip / BSA 7: Organization and BaseID Code (A=Service Ready, B=Not Service Ready): A
Program Elements for Code B Items: N/A
P-1 Line Item Number / Title:
837100 / Tactical C-E Equipment

Other Related Program Elements: 0207422F, 0207444F, 0503133F Line Item MDAP/MAIS Code: N/A

| Exhibits Schedule |  |  |  |  | Prior YearsQuantity / Total Cost <br> $($ Each $) /(\$ M)$ | FY 2019 | FY 2020 | FY 2021 Base | FY 2021 OCO | FY 2021 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) |
| P-5 | AFSPECWAR - TACP |  | A |  | - 1 - | - 16.845 | - 13.870 | - / 1.539 | - 1 - | - /1.539 |
| P-40a | Deployable C3 Systems |  |  |  | 1 - | - 157.956 | - 145.835 | - 145.677 | - 10.000 | - 145.677 |
| P-40a | Advanced Communications Systems |  |  |  | 1 - | - 15.913 | - 16.297 | - 16.403 | - 1 | - 16.403 |
| P-5 | Tactical Air Control Party-Mod |  | A |  | 1 - | - / 42.846 | - / 35.967 | - 154.393 | - 1 | - 154.393 |
| P-5 | Special Tactics / Combat Control | P-5a | A |  | 1 | 2,819/52.689 | 2,392 / 52.094 | - / 29.021 | - 10.000 | - 129.021 |
| P-40 | Total Gross/Weapon System Cost |  |  |  | 1 | - /166.249 | - /144.063 | - / 137.033 | - 10.000 | - / 137.033 |

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

## Justification:

PE 0207418F AFSPECWAR - TACP - P-5
 Material Shortage (DMSMS) issues.

PE 0207422F Deployable C3 Systems - P-40A
 end of support terminals.

 support as needed.
 vulnerability mitigations and original equipment manufacturer support as needed.

DEPLOYABLE AIR FORCE LEAD JTF EQUIPMENT:

 support the deployable joint-capable AF-led JTF.

PE 0207423F Advanced Communications Systems - P-40A
Advanced Communications Systems PE 0207423F


 items, as well as training and vendor field support.

| Appropriation / Budget Activity / Budget Sub Activity: |
| :--- |
| 3080F: Other Procurement, Air Force / BA 03: Electronics and Telecommunications |
| Equip / BSA 7: Organization and Base |

## P-1 Line Item Number / Title:

837100 / Tactical C-E Equipment


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

PE 0207444F Tactical Air Control Party-Mod - P-5
PE 0207444F TACTICAL AIR CONTROL PARTY-MOD
TACTICAL AIR CONTROL PARTY-MODERNIZATION (TACP-M) ACQUISITION CATEGORIES: (1) Mounted Systems (used in fixed operations centers and tactical vehicles), (2) Dismounted Systems (used by JTACs during dismounted infantry operations), and (3) Close Air Support System (CASS) software. FY21 funding will procure the following:
 used in tactical vehicles:

1. Operation Center Systems: TACP operations center systems include the fielded ASOC Gateway and Gateway Light systems, the transportable Dismounted Communication Package (DCP) systems mounted in transit cases, and in the future will include the TACP Transportable Gateway (TTG). The TTG will provide the capability to receive and transmit digital messages on data link networks at the ASOC and
Division and Brigade-level Tactical Operations Centers (TOCs). The TTG will provide battlespace awareness capabilities and line-of-sight, near real time data communications with aircraft for digitally-aided close air support operations. TTG will be a transportable system within 1 or 2 transit cases and include one SCA compliant radio for SATCOM or LOS networked data communications, a small form factor link 16 radio, a power supply capable of using generator and commercial power, a computer to host TACP CASS software and data link control software, and all necessary masts, antennas, and cables.
2. Vehicle Systems: TACP vehicle systems include the GRC-259 system mounted in Stryker armored vehicles, an interim 2-channel mobile voice communications packages mounted in new M1165 High Mobility Multi-Wheeled Vehicles (HMMWVs), as well as the Mobile Communications System (MCS) for M1145 HMMWVS. These systems utilize Software Communications Architecture (SCA)-compliant multi-band radios, tactical video receivers, computers, and ancillary equipment required to conduct CAS voice, video, and data communications.

Following delivery of the MCS, the TACP-M program intends to procure or upgrade multi-channel data communications systems for M1165 HMMVs, M113 armored personnel carriers (used by TACPs supporting Army armored or mechanized Brigades), and the future Armored Multi-Purpose Vehicle (AMPV) and Joint Light Tactical Vehicle (JLTV). The AMPV and JLVT are new armored vehicles in development by the Army to replace the aging M113 and HMMWVs vehicles, and will be adopted by Air Force TACPs as well. Specific requirements and acquisition strategies for those systems will be developed after contract award for the M1145 MCS. In addition, the TACP-M program office expects to modify communications systems currently mounted in Stryker armored vehicles. This modification will provide a remote control capability required to conduct TACP communications from an Army Stryker Brigade tactical operations center (TOC).
B. DISMOUNTED EQUIPMENT (used by JTACs during dismounted infantry operations):

1. OPERATIONAL CONTROL SYSTEM (OCS)/COMPUTERS: Ruggedized Dismounted JTAC Computer Kits and ancillary equipment required to support Line-of-Sight (LOS) and Beyond-Line-of-Sight (BLOS) data communications with C2 nodes, other TACPs, and attack aircraft. These kits will also provide data link communications through the ASOC Gateway, targeting displays, map and imagery displays, and data JTACs need to compose, transmit, and receive CAS messages with minimal heads-down time during battles with enemy forces. The computers will accommodate TACP Close Air Support System (CASS) software upgrades that include Human-Machine Interface (HMI) improvements and implementation of Joint Digitally-aided Close Air Support standards published by the Joint Staff. Finally, they will provide cable systems and integrated power management capabilities that will extend battery life and reduce the number of external cables that present a snagging hazard during combat operations and are easily damaged. Kit quantities procured in FY17 may change depending on final unit prices, and interim support services may be funded as part of this procurement effort.
2. HANDHELD LASER TARGET DESIGNATORS (LTDs)/RANGEFINDERS (LRFs): TACPs require, smaller, lighter, handheld laser target designators and rangefinders (LTDs/LRFs) to replace the large, heavy Ground Laser Target Designator (GLTD) II devices currently fielded with TACP units. Dismounted TACPs/JTACs do not normally carry GLTD lls on patrols due to the large size and weight of the device and the fact that it requires heavy, expensive, military batteries that increase the JTAC's combat load. In earlier years, TACP-M funding helped support system development in the Army-led Joint Effects Targeting System (JETS) program that is developing new handheld Target Location Designation System (TLDS) components for use by joint terminal attack controllers and artillery forward observers to improve target acquisition during all-weather conditions. Pending final Army development and production decisions, the TACP-M program may join the Army to procure these components. Emerging off-the-shelf technology, however, can also deliver a handheld LTD in a significantly smaller and lighter form factor suitable for use by dismounted JTACs. Quantities and funding required will depend on final unit prices and TACP force structure when funding is available.

| Appropriation / Budget Activity / Budget Sub Activity: |
| :--- |
| 3080F: Other Procurement, Air Force / BA 03: Electronics and Telecommunications |
| Equip / BSA 7: Organization and Base |

## P-1 Line Item Number / Title:

837100 / Tactical C-E Equipment

ID Code (A=Service Ready, B=Not Service Ready): A
Program Elements for Code B Items: N/A
Other Related Program Elements: 0207422F, 0207444F, 0503133F

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


 beacon that emits in the mid- and long-wave IR spectrum is required to mark friendly troop/JTAC locations in order to avoid fratricide and improve mission effectiveness.



 reduce the number of batteries JTACs must carry to power their equipment.


 viewing devices that can detect and track laser target designator spots through haze, fog, or smoke and is not susceptible to thermal crossover conditions.


 new joint Digitally-aided CAS standards, and provide contract technical and help desk support to operators employing the software.
 transitioning to long-term sustainment.
 defense missions, domestic emergency responses, and providing military support to civil authorities.

PE 0408011F Special Tactics / Combat Control - P-5
PE 0408011F SPECIAL TACTICS / COMBAT CONTROL









 and returns, and other equipment.

Funding for this exhibit contained in PE 0408011F. Special Tactics / Combat Control FY19 funding totals include $\$ 25 \mathrm{M}$ for Overseas Contingency Operations.
Appropriation / Budget Activity / Budget Sub Activity:
3080F: Other Procurement, Air Force / BA 03: Electronics and Telecommunications
Equip / BSA 7: Organization and Base

## P-1 Line Item Number / Title:

837100 / Tactical C-E Equipment Equip / BSA 7: Organization and Base


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

## PE 0408011F BATTLEFIELD AIRMEN OPERATIONS (BAO) Kit



 Also, items included but not limited to training, initial spares, repairs and returns, and other equipment.


 of fratricide and reduce the time required to employ precision effects on the battlefield to single-digit minutes.



 more durable hardware, reduced size and weight, and additional capability to the operator.


 data and to perform tactical airfield/assault landing drop zone operations.

 requirements.

PE 0503133F Combat Rescue - Pararescue (AFR) - P-40A
PE 0503133F: COMBAT RESCUE - PARARESCUE (AFR)
No FY21 funding requested.

Exhibit P-5, Cost Analysis: PB 2021 Air Force

## Appropriation / Budget Activity / Budget Sub Activity:

 3080F / 03 / 7ID Code (A=Service Ready, B=Not Service Ready) : A

## P-1 Line Item Number / Title: 837100 / Tactical C-E Equipment

Date: February 2020
MDAP/MAIS Code:

| Resource Summary | Prior Years | FY 2019 | FY 2020 | FY 2021 Base | FY 2021 OCO | FY 2021 Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Procurement Quantity (Units in Each) | - | - | - | - | - | - |
| Gross/Weapon System Cost (\$ in Millions) | - | 6.845 | 3.870 | 1.539 | - | 1.539 |
| Less PY Advance Procurement (\$ in Millions) | - | - | - | - | - | - |
| Net Procurement (P-1) (\$ in Millions) | - | 6.845 | 3.870 | 1.539 | - | 1.539 |
| Plus CY Advance Procurement (\$ in Millions) | - | - | - | - | - | - |
| Total Obligation Authority (\$ in Millions) | - | 6.845 | 3.870 | 1.539 | - | 1.539 |
| (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 2019 |  |  | FY 2020 |  |  | FY 2021 Base |  |  | FY 2021 OCO |  |  | FY 2021 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 (\$ 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) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost <br> (\$ M) |

## Hardware - TACP Fixed Simulator - JTC TRS Cost

## Recurring Cost



Smat
Subtotal: Hardware - TACP
Fixed Simulator - JTC TRS
Cost
Software - Tactical Airborne Control Systems Cost

| Recurring Cost |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Digitally Aided CAS | - | - | - | 0.342 | 20 | 6.845 | 1.290 | 3 | 3.870 | 0.513 |  | 3 | 1.539 | - | - | - |  | 0.513 | 3 | 1.539 |
| Subtotal: Recurring Cost | - | - | - | - | - | 6.845 | - | - | 3.870 | - |  | - | 1.539 | - | - | - |  | - | - | 1.539 |
| Subtotal: Software - Tactical Airborne Control Systems Cost | - | - | - | - | - | 6.845 | - | - | 3.870 | - |  | - | 1.539 | - | - | - |  | - | - | 1.539 |
| Gross/Weapon System Cost | - | - | - | - | - | 6.845 | - | - | 3.870 | - |  | - | 1.539 | - | - | - | - | - | - | 1.539 |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Secondary Distribution |  |  |  |  |  |  | FY 2019 |  | FY 2020 |  |  | $\begin{gathered} \text { FY } 2021 \\ \text { Base } \end{gathered}$ |  |  | $\begin{gathered} \text { FY } 2021 \\ \text { OCO } \end{gathered}$ |  |  | $\begin{gathered} \text { FY } 2021 \\ \text { Total } \end{gathered}$ |  |  |
| AF |  | Quantity |  |  |  |  | - |  | - |  |  |  | - |  | - |  |  | - |  |  |
|  |  | Total Obligation Authority |  |  |  |  | 6.845 |  | 3.870 |  |  |  | 1.539 |  | - |  |  |  |  | 1.539 |
| Total: |  | Quantity |  |  |  |  | - |  |  |  | - |  |  | - | - |  |  |  |  |  |

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| Exhibit P-5, Cost Analysis: PB 2021 Air Force |  |  |  | Date: February 2020 <br> Item Number / Title [DODIC]: <br> AFSPECWAR - TACP |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3080F / 03 / 7 | P-1 Line Item Number / Title: 837100 / Tactical C-E Equipment |  |  |  |  |
| ID Code (A=Service Ready, B=Not Service Ready) : A |  | MDAP/MAIS Code: |  |  |  |
| Secondary Distribution | FY 2019 | FY 2020 | $\begin{aligned} & \text { FY } 2021 \\ & \text { Base } \end{aligned}$ | $\begin{aligned} & \text { FY } 2021 \\ & \text { OCO } \end{aligned}$ | $\begin{aligned} & \text { FY } 2021 \\ & \text { Total } \end{aligned}$ |
| Secondary Distribution Total Obligation Authority | 6.845 | 3.870 | 1.539 | - | 1.539 |

## UNCLASSIFIED

| Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2021 Air Force ${ }^{\text {a }}$ D |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Date: February 2020 <br> Aggregated Items Title: Deployable C3 Systems |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3080F / 03 / 7 |  |  |  |  |  |  |  | P-1 Line Item Number / Title: 837100 / Tactical C-E Equipment |  |  |  |  |  |  |  |  |  |  |  |  |
| Item Number / Title [DODIC] | $\begin{aligned} & \mathrm{ID} \\ & \mathrm{CD} \end{aligned}$ | $\begin{aligned} & \text { MDAP/ } \\ & \text { MAIS } \\ & \text { code } \end{aligned}$ | Prior Years |  |  | FY 2019 |  |  | FY 2020 |  |  | FY 2021 Base |  |  | FY 2021 OCO |  |  | FY 2021 Total |  |  |
|  |  |  | 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 (\$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) |
| Hardware, Recurring |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| TDC - Integrated Communications Access Package | A |  | - | - | - | 0.345 | 42 | 14.490 | 0.343 | 20 | 6.860 | 0.345 | 47 | 16.215 | - | - | 0.000 | 0.345 | 47 | 16.215 |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | - |  | 35 | 12.075 |  | 1 | 0.343 |  | 6 | 2.070 |  | - | 0.000 |  | 6 | 2.070 |
| AFNG |  |  |  | - |  |  | 7 | 2.415 |  | 16 | 5.488 |  | 32 | 11.040 |  | - | - |  | 32 | 11.040 |
| AFR |  |  |  | - | - |  | - | 0.000 |  | 3 | 1.029 |  | 9 | 3.105 |  | - | - |  | 9 | 3.105 |
| TDC - Network Control Center Deployed | A |  | - | - | - | 0.235 | 151 | 35.485 | 0.265 | 1 | 0.265 | 0.271 | 1 | 0.271 | - | - | - | 0.271 | 1 | 0.271 |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | - |  | 84 | 19.740 |  | 1 | 0.265 |  | 1 | 0.271 |  | - | - |  | 1 | 0.271 |
| AFNG |  |  |  | - | - |  | 52 | 12.220 |  | - | - |  | - | - |  | - | - |  | - |  |
| AFR |  |  |  | - | - |  | 15 | 3.525 |  | - | - |  | - | - |  | - | - |  | - | - |
| TDC - SATCOM (formery Hub and Spoke Satellite Terminals) | A |  | - | - | - | 0.420 | 10 | 4.200 | 0.415 | 61 | 25.315 | 0.167 | 118 | 19.706 | - | - | - | 0.167 | 118 | 19.706 |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | - |  | 1 | 0.420 |  | 9 | 3.735 |  | 50 | 8.350 |  | - | - |  | 50 | 8.350 |
| AFNG |  |  |  | - | - |  | 9 | 3.780 |  | 43 | 17.845 |  | 59 | 9.853 |  | - | - |  | 59 | 9.853 |
| AFR |  |  |  | - | - |  | - | - |  | 9 | 3.735 |  | 9 | 1.503 |  | - | - |  | 9 | 1.503 |
| Deployable Air Force Lead JTF Equipment | A |  | - | - | - | 0.500 | 1 | 0.500 | 9.900 | 1 | 9.900 | 6.600 | 1 | 6.600 | - | - | - | 6.600 | 1 | 6.600 |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | - |  | 1 | 0.500 |  | 1 | 9.900 |  | 1 | 6.600 |  | - | - |  | 1 | 6.600 |
| Subtotal: Hardware, Recurring |  |  | - | - | - | $\cdot$ | - | 54.675 | - | - | 42.340 | - | - | 42.792 | - | - | 0.000 | - | - | 42.792 |
| Services |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| TDC - PMA Contractor Services | A |  | - | - | - | - | - | 2.388 | - | - | 2.335 | - | - | 1.685 | - | - | - | - | - | 1.685 |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | - |  | - | 2.388 |  | - | 2.335 |  | - | 1.685 |  | - | - |  | - | 1.685 |
| TDC - PMA Other Government Costs | A |  | - | - | - | - | - | 0.893 | - | - | 1.160 | - | - | 1.200 | - | - | - | - | - | 1.200 |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | - |  | - | 0.893 |  | - | 1.160 |  | - | 1.200 |  | - | - |  | - | 1.200 |
| Subtotal: Services |  |  | - | - | - | - | - | 3.281 | - | - | 3.495 | - | - | 2.885 | - | - | - | - | - | 2.885 |
| Total |  |  | - | - | - | - | - | 57.956 | - | - | 45.835 | - | - | 45.677 | - | - | 0.000 | - | - | 45.677 |
| Note: Subtotals or Totals in this Exhibit P-40a may not be exact or sum exactly, due to rounding. |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

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| Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2021 Air Force |  | Date: February 2020 |
| :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3080F / 03 / 7 | P-1 Line Item Number / Title: 837100 / Tactical C-E Equipment | Aggregated Items Title: Deployable C3 Systems |
| Remarks: <br> a. CONTROLLED ITEM will be funded with investment funds to purchase military communications equipment classified as critical protection items. |  |  |
| PSC for Theater Deployable Communications supports the operation of the program office in its management and oversight role, to include engineering and technical support, as well as support activities for the program. <br> c. DIRECT MISSION SUPPORT (DMS): |  |  |
|  meetings, and events associated with fielding both hardware and software products, and maintaining configuration control of fielded products. |  |  |

UNCLASSIFIED


Exhibit P-5, Cost Analysis: PB 2021 Air Force

## Appropriation / Budget Activity / Budget Sub Activity:

 3080F / 03 / 7
## P-1 Line Item Number / Title: 837100 / Tactical C-E Equipment

Date: February 2020
Item Number / Title [DODIC]:
Tactical Air Control Party-Mod

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

| Resource Summary | Prior Years | FY 2019 | FY 2020 | FY 2021 Base | FY 2021 OCO | FY 2021 Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Procurement Quantity (Units in Each) | - | - | - | - | - | - |
| Gross/Weapon System Cost (\$ in Millions) | - | 42.846 | 35.967 | 54.393 | - | 54.393 |
| Less PY Advance Procurement (\$ in Millions) | - | - | - | - | - | - |
| Net Procurement (P-1) (\$ in Millions) | - | 42.846 | 35.967 | 54.393 | - | 54.393 |
| Plus CY Advance Procurement (\$ in Millions) | - | - | - | - | - | - |
| Total Obligation Authority (\$ in Millions) | - | 42.846 | 35.967 | 54.393 | - | 54.393 |
| (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) | - | - | - | - | - | - |


| Cost Elements | Prior Years |  |  | FY 2019 |  |  | FY 2020 |  |  | FY 2021 Base |  |  | FY 2021 OCO |  |  | FY 2021 Total |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 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) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | 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) |

Hardware - Hardware End Item Cost

| Recurring Cost |  |  |  |
| :---: | :---: | :---: | :---: |
| TACP TRANSPORTABLE GATEWAY (TTG) | - | - | - |
| MOBILE COMMUNICATIONS SYSTEMS (MCS) Block 2 | - | - | - |
| ARMORED MULTIPURPOSE VEHICLE (AMPV) | - | - | - |
| Joint Light Tactical Vehicle (JLTV) | - | - | - |
| Subtotal: Recurring Cost | - | - | - |
| Subtotal: Hardware Hardware End Item Cost | - | - | - |


| 1.325 | 2 | 2.650 | 1.325 | 2 |
| ---: | ---: | ---: | ---: | ---: |
| 0.149 | 71 | 10.614 | 0.150 | 64 |
| 0.805 | 1 | 0.805 | 0.628 | 5 |
| - | - | - | - | - |
| - | - | 14.069 | - | - |


| 2 | 2.650 | - | - | 0.686 | - | - |
| ---: | ---: | ---: | ---: | ---: | ---: | ---: |
| 64 | 9.576 | - | - | 30.092 | - | - |
| 5 | 3.141 | 0.730 | 5 | 3.651 | - | - |
| - | - | 0.223 | 26 | 5.789 | - | - |
| - | 15.367 | - | - | 40.218 | - | - |
| - | $\mathbf{1 5 . 3 6 7}$ | - | - | 40.218 | - | - |


| - | - | - | 0.686 |
| ---: | ---: | ---: | ---: |
| - | - | - | 30.092 |
| - | 0.730 | 5 | 3.651 |
| - | 0.223 | 26 | 5.789 |
| - | - | - | 40.218 |
| - | - | - | 40.218 |

Hardware - Hardware end item Cost

## Non Recurring Cost

|  |  |  |  |  |  |  |  |
| :--- | ---: | ---: | ---: | ---: | ---: | ---: | ---: |
| MOBILE <br> COMMUNICATIONS <br> SYSTEMS (MCS) <br> Block 1 | - | - | - | 1.460 | 1 | 1.460 |  |
| TACTICAL <br> TRANSPRTABLE <br> GATEWAY (TTG) | - | - | - | 1.870 | 1 | 1.870 |  |

UNCLASSIFIED

Exhibit P-5, Cost Analysis: PB 2021 Air Force

## Appropriation / Budget Activity / Budget Sub Activity:

 3080F / 03 / 7
## P-1 Line Item Number / Title: 837100 / Tactical C-E Equipment

Date: February 2020
Item Number / Title [DODIC]:
Tactical Air Control Party-Mod

MDAP/MAIS Code:


Exhibit P-5, Cost Analysis: PB 2021 Air Force

## Appropriation / Budget Activity / Budget Sub Activity:

 3080F / 03 / 7
## P-1 Line Item Number / Title: 837100 / Tactical C-E Equipment

Date: February 2020

## Item Number / Title [DODIC]:

Special Tactics / Combat Control

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

| Resource Summary |  |  |  |  | Prior Years |  |  | FY 2019 |  | FY 2020 |  | FY 2021 Base |  |  | FY 2021 OCO |  | FY 2021 Total |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Procurement Quantity (Units in Each) |  |  |  |  |  |  | - |  | 2,819 |  | 2,39 |  |  | - |  | - |  | - |
| Gross/Weapon System Cost (\$ in Millions) |  |  |  |  |  |  | - |  | 52.689 |  | 52.09 |  |  | 021 |  | 0.000 |  | 29.021 |
| Less PY Advance Procurement (\$ in Millions) |  |  |  |  |  |  | - |  | - |  |  |  |  | - |  | - |  | - |
| Net Procurement (P-1) (\$ in Millions) |  |  |  |  |  |  | - |  | 52.689 |  | 52.09 |  |  | 021 |  | 0.000 |  | 29.021 |
| Plus CY Advance Procurement (\$ in Millions) |  |  |  |  |  |  | - |  | - |  |  |  |  | - |  | - |  | - |
| Total Obligation Authority (\$ in Millions) |  |  |  |  |  |  | - |  | 52.689 |  | 52.09 |  |  | 021 |  | 0.000 |  | 29.021 |
| (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) |  |  |  |  |  |  | - |  | 0.019 |  | 0.02 |  |  | - |  | - |  | - |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding. |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | Prior Years |  |  | FY 2019 |  |  | FY 2020 |  |  | FY 2021 Base |  |  | FY 2021 OCO |  |  | FY 2021 Total |  |  |
| Cost Elements | Unit Cost (\$ M) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost (\$ M) | Unit Cost (\$ M) | Qty (Each) | 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 (\$ M) |
| Hardware - Hardware End Item Cost |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Recurring Cost |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| HUMAN MACHINE INTERFACE ${ }^{(\dagger)}$ | - | - | - | 0.017 | 1,970 | 32.670 | 0.021 | 1,370 | 28.762 | 0.014 | 1,186 | 16.604 | - | - | 0.000 | 0.014 | 1,186 | 16.604 |
| OPERATIONAL CONTROL SYSTEM (BAO KIT) ${ }^{(\dagger)}$ | - | - | - | 0.020 | 800 | 16.000 | 0.020 | 987 | 19.732 | 0.011 | 840 | 9.220 | - | - | - - | 0.011 | 840 | 9.220 |
| LINE OF SIGHT | - | - | - | 0.002 | 800 | 1.880 | 0.040 | 37 | 1.468 | 0.040 | 36 | 1.440 | - | - | - - | 0.040 | 36 | 1.440 |
| Subtotal: Recurring Cost | - | - | - | - | - | 50.550 | - | - | 49.962 | - | - | 27.264 | - |  | 0.000 | - | - | 27.264 |
| Subtotal: Hardware - <br> Hardware End Item Cost | - | - | - | - | - | 50.550 | - | - | 49.962 | - | - | 27.264 | - |  | - 0.000 | - | - | 27.264 |
| Support - Support End Item Cost |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| PMA CONTRACTOR SERVICES | - | - | - | - | - | 1.149 | - | - | 1.122 | - | - | 1.033 | - |  | - - | - | - | 1.033 |
| PMA OTHER GOVERNMENT COSTS | - | - | - | - | - | 0.990 | - | - | 1.010 | - | - | 0.724 | - |  | - - | - | - | 0.724 |
| Subtotal: Support - Support End Item Cost | - | - | - | - | - | 2.139 | - | - | 2.132 | - | - | 1.757 | - |  | - - | - | - | 1.757 |
| Gross/Weapon System Cost | - | - | - | 0.019 | 2,819 | 52.689 | 0.022 | 2,392 | 52.094 | - | - | 29.021 | - |  | 0.000 | - | - | 29.021 |

## Remarks:

a. Controlled Item will be funded with investment funds to purchase military communications equipment classified as critical protection items.


UNCLASSIFIED

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

UNCLASSIFIED

| Exhibit P-5a, Procurement History and Planning: PB 2021 Air Force |  |  |  |  |  |  |  | Date: February 2020 |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3080F / 03 / 7 |  |  |  | P-1 Line Item Number / Title: 837100 / Tactical C-E Equipment |  |  |  | Item Number / Title [DODIC]: <br> Special Tactics / Combat Control |  |  |  |  |
| Cost Elements | O c O | FY | Contractor and Location | Method/Type <br> or <br> Funding Vehicle | Location of PCO | Award Date | Date of First Delivery | $\begin{gathered} \text { Qty } \\ \text { (Each) } \\ \hline \end{gathered}$ | Unit Cost (\$M) | Specs Avail Now? | Date Revision Available | RFP Issue Date |
| HUMAN MACHINE INTERFACE |  | 2019 | Multiple / Multiple | Various | AFLCMC Wright Patterson AFB | Oct 2018 | Jan 2019 | 1,970 | 0.017 | Y |  |  |
| HUMAN MACHINE INTERFACE |  | 2020 | Multiple / Multiple | Various | AFLCMC Wright Patterson AFB | Oct 2019 | Jan 2020 | 1,370 | 0.021 | Y |  |  |
| HUMAN MACHINE INTERFACE |  | 2021 | Multiple / Multiple | Various | AFLCMC Wright Patterson AFB | Oct 2020 | Jan 2021 | 1,186 | 0.014 | Y |  |  |
| OPERATIONAL CONTROL SYSTEM (BAO KIT) |  | 2019 | Black Diamond, LLC. / AZ | SS/FFP | AFLCMC Wright Patterson AFB | Feb 2019 | Mar 2019 | 800 | 0.020 | Y |  |  |
| OPERATIONAL CONTROL SYSTEM (BAO KIT) |  | 2020 | Black Diamond, LLC / AZ | SS/FFP | AFLCMC Wright Patterson AFB | Feb 2020 | Mar 2020 | 987 | 0.020 | Y |  |  |
| OPERATIONAL CONTROL SYSTEM (BAO KIT) |  | 2021 | Black Diamond, LLC / AZ | SS/FFP | AFLCMC Wright Patterson AFB | Feb 2021 | Mar 2021 | 840 | 0.011 | Y |  |  |

Appropriation / Budget Activity / Budget Sub Activity:
3080F: Other Procurement, Air Force / BA 03: Electronics and Telecommunications
Equip / BSA 7: Organization and Base

## P-1 Line Item Number / Title:

837190 / Radio Equipment Equip / BSA 7: Organization and Base

|  |  | Other Related Program Elements: N/A |
| :--- | :--- | :--- |

Line Item MDAP/MAIS Code: N/A

| Resource Summary | Prior <br> Years | FY 2019 | FY 2020 | $\begin{gathered} \text { FY } 2021 \\ \text { Base } \end{gathered}$ | $\begin{gathered} \text { FY } 2021 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \text { FY } 2021 \\ \text { Total } \end{gathered}$ | FY 2022 | FY 2023 | FY 2024 | FY 2025 | To Complete | Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Procurement Quantity (Units in Each) | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Cost (\$ in Millions) | - | 11.961 | 15.402 | 15.264 | - | 15.264 | 14.776 | 15.033 | 15.304 | 34.407 | - | 122.147 |
| Less PY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Net Procurement (P-1) (\$ in Millions) | - | 11.961 | 15.402 | 15.264 | - | 15.264 | 14.776 | 15.033 | 15.304 | 34.407 | - | 122.147 |
| Plus CY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Total Obligation Authority (\$ in Millions) | - | 11.961 | 15.402 | 15.264 | - | 15.264 | 14.776 | 15.033 | 15.304 | 34.407 | - | 122.147 |
| (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:



 beyond line of sight radio coverage has been identified to ensure HF radio communications is available in areas of interest to the United States.








 denial (A2AD) environment.

 Support /Program Management Administration (DMS /PMA), System Engineering, Joint Interoperability Test Center (JITC) installation testing and shipping costs for these procurement efforts

Funding for this exhibit contained in PE 0303133F.
Military Necessity: Controlled Item will be funded with investment funds to purchase military communications equipment classified as critical protection items.

## Appropriation / Budget Activity / Budget Sub Activity:

3080F: Other Procurement, Air Force / BA 03: Electronics and Telecommunications Equip / BSA 7: Organization and Base

| 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 2019 | FY 2020 | FY 2021 Base | FY 2021 OCO | FY 2021 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 <br> (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) |
| P-40a | Radio Equipment |  |  |  | - 1 - | - /11.961 | - / 15.402 | - / 15.264 | - 1 - | - / 15.264 |
| P-40 | Total Gross/Weapon System Cost |  |  |  | - 1 - | - / 11.961 | - / 15.402 | - / 15.264 | - 1 - | - /15.264 |

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

## Justification:





 compliance requirements.

 logistically unsupportable.
 Matrix. The existing receive matrices have become obsolete with no spare parts being manufactured to maintain the capability to interface between the radios and antennas.
 technical refresh all operational radios located at the 13 radio stations world-wide and the system integration lab.




 mitigation of potential local environmental considerations.
 support associated with engineering, sustainment engineering, shipping, and implementation. This includes operational acceptance testing and technical interchange meetings.

| Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2021 Air Force |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Date: February 2020 <br> Aggregated Items Title: Radio Equipment |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity:$\text { 3080F / } 03 \text { / } 7$ |  |  |  |  |  |  |  | P-1 Line Item Number / Title: <br> 837190 / Radio Equipment |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  | ior Yea |  | FY 2019 |  |  | FY 2020 |  |  | FY 2021 Base |  |  | FY 2021 OCO |  |  | FY 2021 Total |  |  |
| Item Number / <br> Title [DODIC] | $\begin{aligned} & \text { ID } \\ & \text { CD } \end{aligned}$ | 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 (\$ 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) | Qty (Each) | Total Cost (\$ M) | Unit Cost (\$ M) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost (\$ M) |
| Scope Command Radio/Network Infrastructure |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Ethernet Switch Replacement | A |  | - | - | - | 0.660 | 1 | 0.660 | - | - | - | - | - | - | - | - | - | - | - | - |
| Unified <br> Capabilities/Audio Communications Functionality (UC/ ACF) | A |  | - | - | - | 2.500 | 1 | 2.500 | 5.000 | 1 | 5.000 | 6.000 | 1 | 6.000 | - | - | - | 6.000 | 1 | 6.000 |
| Receive Matrix Replacement | A |  | - | - | - | 3.315 | 1 | 3.315 | 2.173 | 1 | 2.173 | 1.048 | 1 | 1.048 | - | - | - | 1.048 | 1 | 1.048 |
| Radio Procurement for Operational Reliability (RAPTOR) | A |  | - | - | - | - | - | - | - | - | - | 1.000 | 1 | 1.000 | - | - | - | 1.000 | 1 | 1.000 |
| Server Replacement | A |  | - | - | - | 3.500 | 1 | 3.500 | - | - | - | - | - | - | - | - | - | - | - | - |
| Subtotal: Scope Comma Network Infrastructure | nd Rac |  | - | - | - | - | - | 9.975 | - | - | 7.173 | - | - | 8.048 | - | - | - | - | - | 8.048 |
| Antenna Replacement |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| HFGCS Station Antenna Replacements | A |  | - | - | - | - | - | 0.000 | 1.330 | 5 | 6.651 | 1.121 | 5 | 5.606 | - | - | - | 1.121 | 5 | 5.606 |
| Antenna Site Support | A |  | - | - | - | 0.808 | 1 | 0.808 | 0.300 | 1 | 0.300 | 0.327 | 1 | 0.327 | - | - | - | 0.327 | 1 | 0.327 |
| Subtotal: Antenna Replacement |  |  | - | - | - | - | - | 0.808 | - | - | 6.951 | - | - | 5.933 | - | - | - | - | - | 5.933 |
| DMS/PMA |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Direct Mission <br> Support (DMS) <br> [Systems Engineering, <br> Testing, Shipping] | A |  | - | - | - | - | - | 0.650 | - | - | 0.750 | 0.753 | 1 | 0.753 | - | - | - | 0.753 | 1 | 0.753 |
| PMA Contractor Services | A |  | - | - | - | - | - | 0.403 | - | - | 0.403 | 0.403 | 1 | 0.403 | - | - | - | 0.403 | 1 | 0.403 |
| PMA Other Government Costs | A |  | - | - | - | - | - | 0.125 | - | - | 0.125 | 0.127 | 1 | 0.127 | - | - | - | 0.127 | 1 | 0.127 |
| Subtotal: DMS/PMA |  |  | - | - | - | - | - | 1.178 | $\cdot$ | - | 1.278 | - | - | 1.283 | - | - | - | - | - | 1.283 |
| Total |  |  | - | - | - | - | - | 11.961 | - | - | 15.402 | - | - | 15.264 | - | - | - | - | - | 15.264 |

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

## Remarks

1). Due to different levels of complexity, differences in equipment to be updated and length of required time necessary for modification total cost will fluctuate between fiscal years.
 quantification impossible, as there is no single baseline to produce a quantity against.

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Exhibit P-40, Budget Line Item Justification: PB 2021 Air Force
Date: February 2020
Appropriation / Budget Activity / Budget Sub Activity:
3080F: Other Procurement, Air Force / BA 03: Electronics and Telecommunications
Equip / BSA 7: Organization and Base

P-1 Line Item Number / Title:
837240 / CCTV/Audiovisual Equipment Equip / BSA 7: Organization and Base

| 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 2019 | FY 2020 | $\text { FY } 2021$ Base | $\begin{gathered} \text { FY } 2021 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \text { FY } 2021 \\ \text { Total } \end{gathered}$ | FY 2022 | FY 2023 | FY 2024 | FY 2025 | To Complete | Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Procurement Quantity (Units in Each) | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Cost (\$ in Millions) | - | 3.005 | 2.211 | 0.000 | - | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | - | 5.216 |
| Less PY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Net Procurement (P-1) (\$ in Millions) | - | 3.005 | 2.211 | 0.000 | - | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | - | 5.216 |
| Plus CY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Total Obligation Authority (\$ in Millions) | - | 3.005 | 2.211 | 0.000 | - | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | - | 5.216 |
| (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 contained in PEs 0102890F, 030555F, 0401319F and 0808534F.
Visual Information Activities - Strategic PE 0102890F - P-40A
Imagery Acquisition and Audiovisual (AV) systems and their products are used throughout the Air Force to inform and train warfighters and to document combat operations and other events of historical significance. Combat video documentation is used for operational reporting and analysis, situational awareness, battle damage assessment, intelligence and operational analysis, casualty identification, and the historical record. In addition, video and multimedia based products are developed for warfighter operations, readiness training, medical videography, public and internal information, testing and evaluation, and corporate communications. Commanders recognize that imagery quickly conveys very accurate and unbiased information, and are requiring greater amounts of video imagery to help meet the challenges of a very active warfighting force. The Air Force is meeting this challenge by dedicating funding to procure and sustain this important capability by replacing older video studio systems with newer and more capable equipment and systems for both Air Force video production and combat/contingency documentation teams. Imagery acquisition systems are centrally managed to establish and maintain standardization of systems, as well as to ensure full interoperability with all other electronic image acquisition, transmission system formats, and presentation systems used in the Air Force.

WESTERN TEST RANGE DIGITAL IMAGING SYSTEMS: This program replaces obsolete, 35+ year-old high-speed engineering film cameras with high-speed digital imaging systems and also upgrades Optical Tracking Mounts to accommodate the new digital imaging systems. This capital equipment replacement procures items to maintain current capability. These cameras are mounted on mobile optical tracking systems and on camera towers next to the launch pad to provide detailed slow motion photography of the launch events. The cameras support satellite, ballistic, missile defense, and aeronautical missions on the Western Test Range and at Kodiak Island, Alaska. The optical data acquired by these engineering camera systems is a vital part of post flight performance analysis of all space and ballistic launch operations and is critical for Test and Evaluation programs now being conducted by the Missile Defense Agency (MDA) at Vandenberg AFB. Optical tracking provides detailed engineering sequential photography for anomaly resolution and accident reconstruction at distances up to 60 kilometers, and is required for all current and future MDA tests and Delta IV, Atlas IV, Delta II, Peacekeeper, Minuteman, Airborne Laser, Kinetic Kill Vehicle, and commercial space launches. These digital systems replace film camera systems that are no longer logistically supportable.

PRESIDENTIAL AIRCRAFT RECAPITALIZATION (PAR) - One-time upgrade to PAR audio visual equipment.

## Justification: <br> No funding requested for FY21.

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Exhibit P-40, Budget Line Item Justification: PB 2021 Air Force
Date: February 2020
Appropriation / Budget Activity / Budget Sub Activity:
3080F: Other Procurement, Air Force / BA 03: Electronics and Telecommunications
Equip / BSA 7: Organization and Base

## P-1 Line Item Number / Title: 837300 / Base Comm Infrastructure

 Equip / BSA 7: Organization and Base| 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 2019 | FY 2020 | $\begin{gathered} \text { FY } 2021 \\ \text { Base } \end{gathered}$ | $\begin{gathered} \text { FY } 2021 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \text { FY } 2021 \\ \text { Total } \end{gathered}$ | FY 2022 | FY 2023 | FY 2024 | FY 2025 | To Complete | Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Procurement Quantity (Units in Each) | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Cost (\$ in Millions) | - | 153.476 | 55.357 | 132.281 | 30.717 | 162.998 | 136.292 | 158.055 | 48.007 | 48.885 | - | 763.070 |
| Less PY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Net Procurement (P-1) (\$ in Millions) | - | 153.476 | 55.357 | 132.281 | 30.717 | 162.998 | 136.292 | 158.055 | 48.007 | 48.885 | - | 763.070 |
| Plus CY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Total Obligation Authority (\$ in Millions) | - | 153.476 | 55.357 | 132.281 | 30.717 | 162.998 | 136.292 | 158.055 | 48.007 | 48.885 | - | 763.070 |
| (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:

PE 0102325F Atmospheric Early Warning System - P-40A
Atmospheric Early Warning System (PE 0102325F)
(New Start)
PE 0207500F IT Services- AFIMSC- Operating Forces Spt - P-40A
 improved reliability to deliver enterprise IT services. Modernize Air Force Telephone Voice Switching Systems and infrastructure is required to avoid further mission delays and stoppage.

PE 0208535F Collateral Equipment - Tactical Air Forces - P-40A
Collateral Equipment - Tactical Air Forces PE 0208535F/EIC FP15:
(New Start)
 NIFC) complex at RAF Molesworth. The JIAC/NIFC operational facilities at RAF Molesworth will consolidate European intelligence functions critical to the USEUCOM warfighting mission.

PE 0308611F Communications and Information Technology - P-40A


 traffic control and weather instrumentation connectivity needs. This funding will be executed by HQ AFSPC or associated space units.

## PE 0401319F VC-25B - P-40A




| Appropriation / Budget Activity / Budget Sub Activity: |
| :--- |
| 3080F: Other Procurement, Air Force / BA 03: Electronics and Telecommunications |
| Equip / BSA 7: Organization and Base |

## P-1 Line Item Number / Title:

## 837300 / Base Comm Infrastructure

| 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

 of Presidential Airlift Group within the facility.

PE 0205219F MQ-9 UAV - P-40A
 with decision-makers and the intelligence community.

PE 0303004F EIT CONNECT - P-40A





PE 0303005F EIT END USER DEVICES - P-40A

 public and classified network, and equipment required to react to emerging and emergency mission requirements in the National Capital Region (NCR).
 Technology portfolio.





 Technology portfolio.


 Information Technology portfolio.


 these critical components.
 Information Technology portfolio.

 access to secure voice, data, and video systems.
 Information Technology portfolio.

| Appropriation / Budget Activity / Budget Sub Activity: |
| :--- |
| 3080F: Other Procurement, Air Force / BA 03: Electronics and Telecommunications |
| Equip / BSA 7: Organization and Base |

## P-1 Line Item Number / Title:

## 837300 / Base Comm Infrastructure

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


 personnel at 11 major bases and 7 associated units throughout the United States.
 Information Technology portfolio.






 across Europe, enhanced prepositioning of U.S. equipment across Europe, and intensified our efforts to build partner capacity for newer NATO members and partners.
 Information Technology portfolio.

 This is a continuing requirement.
 Technology portfolio.

PE 0505550F Information Technology Services Management - AFR - P-40A


 and interoperable technology and architecture. This is a continuing requirement.
 missions, domestic emergency responses, and providing military support to civil authorities.

PE 0508550F Information Technology Services Management - ANG - P-40A




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

## UNCLASSIFIED

| Exhibit P-40, Budget Line Item Justification: PB 2021 Air Force |  |  |  |  |  |  |  | Date: February 2020 |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: <br> 3080F: Other Procurement, Air Force / BA 03: Electronics and Telecommunications Equip / BSA 7: Organization and Base |  |  |  |  | P-1 Line Item Number / Title: 837300 / Base Comm Infrastructure |  |  |  |  |  |
| ID Code (A=Service Ready, B=Not Service Ready): A Proy |  |  | Program Elements for Code B Items: N/A |  |  |  | Other Related Program Elements: N/A |  |  |  |
| Line Item MDAP/MAIS Code: N/A |  |  |  |  |  |  |  |  |  |  |
| Secondary Distribution |  | FY 2019 | FY 2020 | $\begin{gathered} \text { FY } 2021 \\ \text { Base } \end{gathered}$ | $\begin{aligned} & \text { FY } 2021 \\ & \text { OCO } \end{aligned}$ | $\begin{gathered} \hline \text { FY } 2021 \\ \text { Total } \end{gathered}$ | FY 2022 | FY 2023 | FY 2024 | FY 2025 |
| AF | Quantity | 0 | 0 | 0 | 0 | 0 | - | - | - | - |
|  | Total Obligation Authority | 149.845 | 51.087 | 122.254 | 30.717 | 152.971 | - | - | - | - |
| AFNG | Quantity | 0 | 0 | 0 | 0 | 0 | - | - | - | - |
|  | Total Obligation Authority | 3.291 | 3.924 | 9.675 | 0.000 | 9.675 | - | - | - | - |
| AFR | Quantity | 0 | 0 | 0 | 0 | 0 | - | - | - | - |
|  | Total Obligation Authority | 0.340 | 0.346 | 0.352 | 0.000 | 0.352 | - | - | - | - |
| Total: <br> Secondary Distribution | Quantity | 0 | 0 | 0 | 0 | 0 | - | - | - | - |
|  | Total Obligation Authority | 153.476 | 55.357 | 132.281 | 30.717 | 162.998 | - | - | - |  |

Exhibit P-40, Budget Line Item Justification: PB 2021 Air Force
Date: February 2020

| Appropriation / Budget Activity / Budget Sub Activity: |  |
| :--- | :--- |
| 3080F: Other Procurement, Air Force / BA 03: Electronics and Telecommunications | P-1 Line Item Number / Title: <br> Equip / BSA 7: Organization and Base |

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 2019 | FY 2020 | FY 2021 Base | FY 2021 OCO | FY 2021 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 | Atmospheric Early Warning System |  |  |  | - 1 - | - 10.000 | - 10.000 | - 13.994 | - 1 - | - 13.994 |
| P-40a | Engineering and Installation - Air Force |  |  |  | 1 | - 136.627 | - 13.020 | - 1 | 1 | - 1 - |
| P-40a | IT Services- AFIMSC- Operating Forces Spt |  |  |  | - 1 - | - 15.958 | - 10.000 | - 10.000 | 1 | - 10.000 |
| P-40a | Collateral Equipment - Tactical Air Forces |  |  |  | - 1 - | - 10.000 | - 15.966 | - 12.216 | - 1 - | - 12.216 |
| P-40a | Information Technology Services Management - Other |  |  |  | 1 - | - 13.200 | - 13.254 | - 1 | - 1 - | 1 |
| P-40a | Communications and Information Technology |  |  |  | 1 - | - 14.450 | - 15.439 | - 15.412 | - 1 - | - 15.412 |
| P-40a | VC-25B |  |  |  | 1 - | - 10.000 | - 14.010 | - 10.000 | 1 | - 10.000 |
| P-40a | MQ-9 UAV |  |  |  | 1 | - 187.378 | - 17.898 | - 182.160 | - 1 | - 182.160 |
| P-40a | Information Technology Services Management - Tactical Air Forces |  |  |  | 1 | - 19.535 | - 19.664 | - 10.187 | - 10.000 | - 10.187 |
| P-40a | EIT CONNECT |  |  |  | 1 | - 10.000 | - 17.934 | - / 16.289 | - 1 | - /16.289 |
| P-40a | EIT END USER DEVICES |  |  |  | 1 | - 10.000 | - 10.000 | - /11.996 | - / 30.717 | - $/ 42.713$ |
| P-40a | Information Technology Services Management - Mobility Air Forces |  |  |  | 1 | - 10.768 | - 10.780 | - 10.000 | - 1- | - 10.000 |
| P-40a | Information Technology Services Management - AFR |  |  |  | - 1 - | - 10.340 | - 10.346 | - 10.352 | - 1 - | - 10.352 |
| P-40a | Information Technology Services Management - ANG |  |  |  | - 1 - | - 13.291 | - 13.924 | - 19.675 | - 1 - | - 19.675 |
| P-40a | Information Technology Services Management - Logistics |  |  |  | - 1 - | - 11.647 | - 12.011 | - 10.000 | - 1 - | - 10.000 |
| P-40a | Information Technology Services Management - Training |  |  |  | 1 - | - 10.282 | - 11.111 | - 10.000 | 1 | - 10.000 |
| P-40 | Total Gross/Weapon System Cost |  |  |  | 1 - | - / 153.476 | - / 55.357 | - /132.281 | - 130.717 | - /162.998 |

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

## Justification

PE 0102325F Atmospheric Early Warning System - P-40A
Atmospheric Early Working System (PE 0102325F)
(New Start)FY21 \$3.994M
PE 0207500F IT Services- AFIMSC- Operating Forces Spt - P-40A
No FY2021 funding requested
PE 0208535F Collateral Equipment - Tactical Air Forces - P-40A
Collateral Equipment - Tactical Air Forces PE 0208535f/EIC - FP15:
(New Start)
European Infrastructure Consolidation (EIC): FY20 funds will procure IT and communications equipment to fit-out the Molesworth JIAC facility, supporting 1,750 Joint Intelligence and NATO Intelligence Fusion personnel. FY21 \$2.216M

PE 0208550F Information Technology Services Management -Tactical Air Forces. FY21 \$.187M

| Appropriation / Budget Activity / Budget Sub Activity: |
| :--- |
| 3080F: Other Procurement, Air Force / BA 03: Electronics and Telecommunications |
| Equip / BSA 7: Organization and Base |

## P-1 Line Item Number / Title:

## 837300 / Base Comm Infrastructure

| 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

PE 0308611F Communications and Information Technology - P-40A
AFSPC Communications Infrastructure Equipment: FY 2021 funds ensure access to Air Force and DoD space enterprise and base-level network systems. Funding supports the space enterprise and base operations by providing required Department of the Air Force and space enterprise-wide hardware and software purchases, ensuring the deployment of consistent, compatible, and interoperable communications technology to support the space portion of the Joint Information Environment enterprise. Hardware and software purchases may include routers, switches, and other network systems to support unified capabilities and the joint enterprise. FY21 $\$ 5.412 \mathrm{M}$

PE 0401319F VC-25B - P-40A
The FY21 funding is needed to support PAR Complex military construction project outfitting requirements including: desktop hardware, servers, software, routers, handsets, data switches, network infrastructure and secure voice, data, and video systems. In addition, FY21-23 funding will support the acquisition of special support vehicles for VC-25B operations. No FY21 funding requested.

PE 0205219F MQ-9 UAV - P-40A
Funds are required for the procurement and installation of hardware and software at MQ-9 Squadron Operations Centers (SOCs) to enable mission communications and exchange of mission data necessary for the employment of Remote Split Operations for MQ-9 Reaper missions. FY21 \$82.160M

PE 0303004F EIT CONNECT - P-40A
Air Combat Command (ACC) Lead Command Base Communications Infrastructure: E\& supports enterprise network capability and life cycle replacement of common user communications systems, AF Network Defensive capabilities, as well as Installation Emergency Management (IEM) infrastructure. E\&I funds support communications availability and reliability, providing consistent, compatible, and interoperable capability through advanced technology and architecture. Installations include network communications infrastructure, fiber optic and copper cabling, and associated manhole duct systems for cable projects. FY21 \$16.289M

PE 0303005F EIT END USER DEVICES - P-40A
a. Air Force District Washington (AFDW) Base Communications Network Equipment: FY 2021 funds procure wide and local area network hardware (i.e., servers, routers, hubs and network systems) at Joint Base Anacostia-Bolling, Joint Base Andrews, and Headquarters Air Force. This program invests in office automation systems and computer networks in order to procure high-quality, high-speed connections to both public and classified network, and equipment required to react to emerging and emergency mission requirements in the National Capital Region (NCR).
b. Air Force Materiel Command (AFMC) Communications Infrastructure Equipment: FY 2021 funds support command wide and base approved, MAJCOM validated communications requirements. These provide base life cycle management of AFMC's classified and unclassified network server consolidation, Land Mobile Radio (LMR) systems, routers, voice and data switches, ductwork, cabling, and end building node hardware that support UC and communications infrastructure. Procurements include VoIP solutions to replace the obsolete telephone switches and communications infrastructure.
c. Air Force District Washington (AFDW) Base Communications Infrastructure Equipment: FY 2021 funds procure wide and local area network at Joint Base Anacostia-Bolling, Joint Base Andrews, and Headquarters Air Force. This program invests in office automation systems and computer networks to support high-quality, high-speed connections to public and classified networks in support of National Capitol Region (NCR) mission requirements.
d. Air Force Special Operations Command (AFSOC) Base Communications Infrastructure Equipment: FY 2021 funds will be used by AFSOC to recapitalize data, voice, and video equipment supporting AFSOC forces organized under three active-duty wings, one reserve wing, one National Guard wing, two overseas groups, and several direct reporting units.
e. Pacific Air Forces (PACAF) Base Communications Infrastructure Equipment: FY 2021 funding supports PACAF's acquisition and installation of Unified Capabilities (UC) and communications infrastructure at remote and Geographically Separated Unit (GSU) locations. Procurements include VoIP solutions to replace the obsolete telephone switches and communications infrastructure supporting C2 for deploying squadrons at these (flex base) locations. This capability directly supports COMPACAF's flexible basing strategy for the Pacific region.
f. Air Combat Command (ACC) Base Communications Infrastructure Equipment: FY 2021 funds continue life cycle support of base communications infrastructure at ACC bases and replaces outdated network voice and data equipment hardware to meet mission requirements of ACC's C 2 and mission support users.
g. USAFE-AFAFRICA Base Communications Infrastructure Equipment: FY 2021 funds replace USAFE's outdated Land Mobile Radio distribution systems between intrabase communication networks/nodes thereby eliminating bottlenecks in trunking systems across USAFE-AFAFRICA Main Operating Bases (MOBs) and GSUs. Base network infrastructure procurements meet network communications requirements for USAFE-AFAFRICA users at MOBS and GSUs. Additionally, FY 2021 funds procure communications infrastructure in support of the EIC and procure equipment to support the European Deterrence Initiative (EDI). EDI requires additional long haul communication support to support increased rotational presence of air, ground and sea forces throughout Europe.

## Appropriation / Budget Activity / Budget Sub Activity:

3080F: Other Procurement, Air Force / BA 03: Electronics and Telecommunications
P-1 Line Item Number / Title:
837300 / Base Comm Infrastructure

Equip / BSA 7: Organization and Base
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


 $\$ 11.996 \mathrm{M}$ and OCO FY21 \$30.717M

PE 0505550F Information Technology Services Management - AFR - P-40A
 architectures. In addition to funding AFR-wide programs. Funds also acquire equipment for life cycle support of critical base-level communications infrastructure requirements. FY21 $\$ .352 \mathrm{M}$

PE 0508550F Information Technology Services Management - ANG - P-40A
 compatible, and interoperable infrastructure and architecture. This functionality ensures compatibility of ANG networks with the AF Enterprise. FY21 \$9.675M

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| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3080F / 03 / 7 |  |  |  |  |  |  |  | P-1 Line Item Number / Title: 837300 / Base Comm Infrastructure |  |  |  |  |  |  |  | Aggregated Items Title: Atmospheric Early Warning System |  |  |  |  |
|  |  |  | Prior Years |  |  | FY 2019 |  |  | FY 2020 |  |  | FY 2021 Base |  |  | FY 2021 OCO |  |  | FY 2021 Total |  |  |
| Item Number / Title [DODIC] | $\begin{aligned} & \mathrm{ID} \\ & \mathrm{CD} \end{aligned}$ | $\begin{aligned} & \text { MDAPI } \\ & \text { MAIS } \\ & \text { code } \end{aligned}$ | Unit Cost (\$ M) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | Total Cost <br> (\$M) | Unit Cost (\$ M) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | $\begin{aligned} & \text { Total } \\ & \text { Cost } \\ & (\$ M) \\ & \hline \end{aligned}$ | Unit Cost (\$ M) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | Total Cost <br> (\$ M) | Unit Cost (\$ M) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | 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) |
| Uncategorized |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Atmospheric Early Warning System | A |  | - | - | - | - | - | 0.000 | - | - | 0.000 | - | - | 3.994 | - | - | - | - | - | 3.994 |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | - |  | - | 0.000 |  | - | 0.000 |  | - | 3.994 |  | - | - |  | - | 3.994 |
| Subtotal: Uncategorized |  |  | - | - | - | - | - | 0.000 | - | - | 0.000 | - | - | 3.994 | - | - | - | $\cdot$ | - | 3.994 |
| Total |  |  | - | - | - | - | - | 0.000 | - | - | 0.000 | - | - | 3.994 | - | - | - | - | - | 3.994 |

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 Items: PB 2021 Air Force |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Date: February 2020 |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3080F / 03 / 7 |  |  |  |  |  |  |  | P-1 Line Item Number / Title: 837300 / Base Comm Infrastructure |  |  |  |  |  |  |  | Aggregated Items Title: <br> Engineering and Installation - Air Force |  |  |  |  |
|  |  |  |  | ior Yea |  | FY 2019 |  |  | FY 2020 |  |  | FY 2021 Base |  |  | FY 2021 OCO |  |  | FY 2021 Total |  |  |
| Item Number / Title [DODIC] | $\begin{aligned} & \mathrm{ID} \\ & \mathrm{CD} \end{aligned}$ | $\begin{aligned} & \text { MDAP/ } \\ & \text { MAIS } \\ & \text { code } \end{aligned}$ | Unit Cost (\$ M) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost Cost (\$M) | Unit Cost (\$ M) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | $\begin{aligned} & \text { Total } \\ & \text { Cost } \\ & (\$ M) \\ & \hline \end{aligned}$ | Unit Cost <br> (\$ 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) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | $\begin{aligned} & \text { Total } \\ & \text { Cost } \end{aligned}$ $(\$ M)$ |
| Engineerng \& Installation |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| New ltem | A |  | - | - | - | - | - | 36.627 | - | - | 3.020 | - | - | - | - | - | - | - | - | - |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | - |  | - | 36.627 |  | - | 3.020 |  | - | - |  | - | - |  | - | - |
| Subtotal: Engineerng \& Installation |  |  | - | - | - | - |  | 36.627 | - | - | 3.020 | - | $\cdot$ | - | - | - | - | $\cdot$ | - | - |
| Total |  |  | - | - | - | - | - | 36.627 | - | - | 3.020 | - | - | - | - | - | - | - | - | - |

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| Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2021 Air Force ${ }^{\text {a }}$ D |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Date: February 2020 |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3080F / 03 / 7 |  |  |  |  |  |  | P-1 Line Item Number / Title: 837300 / Base Comm Infrastructure |  |  |  |  |  |  |  | Aggregated Items Title: <br> IT Services- AFIMSC- Operating Forces Spt |  |  |  |  |
|  |  |  | ior Yea |  |  | Y 2019 |  |  | Y 2020 |  |  | 2021 B |  |  | 20210 |  |  | 2021 To |  |
| Item Number / Title [DODIC] |  | 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) | Unit Cost (\$ M) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | $\begin{aligned} & \text { Total } \\ & \text { Cost } \\ & (\$ M) \end{aligned}$ | 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) |
| AF Installation \& Msn Spt Ctr |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Info Tech Svcs Mgt (ITSM) | A | - | - | - | - | - | 5.958 | - | - | 0.000 | - | - | 0.000 | - | - | - |  | - | 0.000 |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  | - | - |  | - | 5.958 |  | - | 0.000 |  | - | 0.000 |  | - | - |  | - | 0.000 |
| Subtotal: AF Installation \& Msn Spt Ctr |  | - |  | - | - | - | 5.958 | - | - | 0.000 | - | - | 0.000 |  | - | - |  | - | 0.000 |
| Total |  | - | - | - | - | - | 5.958 | - | - | 0.000 | - | - | 0.000 | . | - | - | - | - | 0.000 |

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| Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2021 Air Force |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Date: February 2020 |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3080F / 03 / 7 |  |  |  |  |  |  |  | P-1 Line Item Number / Title: 837300 / Base Comm Infrastructure |  |  |  |  |  |  |  | Aggregated Items Title: Collateral Equipment - Tactical Air Forces |  |  |  |  |
|  |  |  | Prior Years |  |  | FY 2019 |  |  | FY 2020 |  |  | FY 2021 Base |  |  | FY 2021 OCO |  |  | FY 2021 Total |  |  |
| Item Number / Title [DODIC] | $\begin{aligned} & \mathrm{ID} \\ & \mathrm{CD} \end{aligned}$ | $\begin{aligned} & \text { MDAP/ } \\ & \text { MAIS } \\ & \text { Code } \end{aligned}$ | Unit Cost (\$ M) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | Total Cost (\$ M) | Unit Cost (\$ M) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | $\begin{aligned} & \text { Total } \\ & \text { Cost } \\ & (\$ M) \\ & \hline \end{aligned}$ | Unit Cost (\$ M) | $\begin{gathered} \text { Qty } \\ (\text { (Each) } \end{gathered}$ | Total Cost <br> (\$ M) | Unit Cost (\$ M) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | $\begin{aligned} & \text { Total } \\ & \text { Cost } \end{aligned}$ (\$M) | Unit Cost (\$ M) | $\begin{gathered} \text { Qty } \\ (\text { (Each) } \end{gathered}$ | Total Cost (\$ M) | Unit Cost $(\$ M)$ | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | $\begin{aligned} & \text { Total } \\ & \text { Cost } \end{aligned}$ (\$M) |
| Collateral Equipment - Tactical Air Force |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| EIC-FP15 | A |  | - | - | - | - | - | 0.000 | - | - | 5.966 | - | - | 2.216 | - | - | - | - | - | 2.216 |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | - |  | - | 0.000 |  | - | 5.966 |  | - | 2.216 |  | - | - |  | - | 2.216 |
| Subtotal: Collateral Equipment Tactical Air Force |  |  | - | - | - | - |  | 0.000 | - | - | 5.966 | - | - | 2.216 | - | - | - | - | - | 2.216 |
| Total |  |  | - | - | - | - | - | 0.000 | - | - | 5.966 | - | - | 2.216 | - | - | - | - | - | 2.216 |

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|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Date: February 2020 |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3080F / 03 / 7 |  |  |  |  |  |  |  | P-1 Line Item Number / Title: 837300 / Base Comm Infrastructure |  |  |  |  |  |  |  | Aggregated Items Title: Information Technology Services Management - Other |  |  |  |  |
|  |  |  | Prior Years |  |  | FY 2019 |  |  | FY 2020 |  |  | FY 2021 Base |  |  | FY 2021 OCO |  |  | FY 2021 Total |  |  |
| Item Number / Title [DODIC] | $\begin{aligned} & \mathrm{ID} \\ & \mathrm{CD} \end{aligned}$ | $\begin{array}{\|c\|c\|} \hline \text { MDAPI } \\ \text { MAIS } \\ \text { Coded } \end{array}$ | 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 (\$ 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) |
| Information Technology Services Management - Other |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| New Item | A |  | - - | - | - | - | - | 3.200 | - | - | 3.254 | - | - | - | - | - | - | - | - | - |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | - |  | - | 3.200 |  | - | 3.254 |  | - | - |  | - | - |  | - | - |
| Subtotal: Information Technology Services Management - Other |  |  | - | - | - | - | - | 3.200 | - | - | 3.254 | - | - | - | - | - | - | - | - | - |
| Total |  |  | - | - |  | - | - | 3.200 | - | $\cdot$ | 3.254 | - | - | - | $\cdot$ | - | - | - | - | - |

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

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| Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2021 Air Force |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Date: February 2020 |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3080F / 03 / 7 |  |  |  |  |  |  | P-1 Line Item Number / Title: <br> 837300 / Base Comm Infrastructure |  |  |  |  |  |  |  | Aggregated Items Title: Communications and Information Technology |  |  |  |  |
|  |  MDAP/ <br> ID MAIs <br> CD Code | Prior Years |  |  | FY 2019 |  |  | FY 2020 |  |  | FY 2021 Base |  |  | FY 2021 OCO |  |  | FY 2021 Total |  |  |
| Item Number / Title [DODIC] |  | $\begin{array}{\|c} \substack{\text { Unit Cost } \\ (\$ M)} \\ \hline \end{array}$ | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | $\begin{aligned} & \text { Total } \\ & \text { Cost } \\ & (\$ M) \\ & \hline \end{aligned}$ | Unit Cost <br> (\$ M) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | $\begin{aligned} & \text { Total } \\ & \text { Cost } \end{aligned}$ (\$ M) | Unit Cost (\$ M) | $\begin{gathered} \text { Qty } \\ (\text { (Each) } \end{gathered}$ | $\begin{aligned} & \text { Total } \\ & \text { Cost } \end{aligned}$ (\$ M) | Unit Cost (\$ M) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | $\begin{aligned} & \hline \text { Total } \\ & \text { Cost } \\ & (\$ M) \\ & \hline \end{aligned}$ | Unit Cost (\$ M) | $\begin{gathered} \text { Qty } \\ (\text { (Each) } \end{gathered}$ | Total Cost (\$ M) | Unit Cost (\$M) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | $\begin{aligned} & \text { Total } \\ & \text { Cost } \\ & (\$ M) \end{aligned}$ |
| AFSPC |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AFSPC <br> Communications Infrastructure Equipment | A | - | - | - | - | - | 4.450 | - | - | 5.439 | - | - | 5.412 | - | - |  | - | - | 5.412 |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  | - | - |  | - | 4.450 |  | - | 5.439 |  | - | 5.412 |  | - | - |  | - | 5.412 |
| Subtotal: AFSPC |  | - | - | - | - | - | 4.450 | - | - | 5.439 | - | - | 5.412 | - | - | - | - | - | 5.412 |
| Total |  | - | - | - | - | - | 4.450 | - | - | 5.439 | - | - | 5.412 | - | - | - | - | - | 5.412 |

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| Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2021 Air Force |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Date: February 2020 <br> Aggregated Items Title: VC-25B |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3080F / 03 / 7 |  |  |  |  |  |  |  | P-1 Line Item Number / Title: <br> 837300 / Base Comm Infrastructure |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  | ior Yea |  | FY 2019 |  |  | FY 2020 |  |  | FY 2021 Base |  |  | FY 2021 OCO |  |  | FY 2021 Total |  |  |
| Item Number / Title [DODIC] | $\begin{aligned} & \mathrm{ID} \\ & \mathrm{CD} \end{aligned}$ | $\begin{aligned} & \text { MDAP// } \\ & \text { MAIS } \\ & \text { Code } \end{aligned}$ | 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) | 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) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | $\begin{aligned} & \text { Total } \\ & \text { Cost } \end{aligned}$ $(\$ M)$ |
| AFMC |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| VC-25B PAR | A |  | - | - | - | - | - | 0.000 | - | - | 4.010 | - | - | 0.000 | - | - | - | - | - | 0.000 |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | - |  | - | 0.000 |  | - | 4.010 |  | - | 0.000 |  | - | - |  | - | 0.000 |
| Subtotal: AFMC |  |  | - | - | - | - | - | 0.000 | - | - | 4.010 | - | - | 0.000 | - | - | - | - | - | 0.000 |
| Total |  |  | - | - | - | - | - | 0.000 | - | - | 4.010 | $\cdot$ | - | 0.000 | - | - | - | - | - | 0.000 |

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| Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2021 Air Force |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Date: February 2020 <br> Aggregated Items Title: MQ-9 UAV |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3080F / 03 / 7 |  |  |  |  |  |  |  | P-1 Line Item Number / Title: 837300 / Base Comm Infrastructure |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  | Prior Years |  |  | FY 2019 |  |  | FY 2020 |  |  | FY 2021 Base |  |  | FY 2021 OCO |  |  | FY 2021 Total |  |  |
| Item Number / <br> Title [DODIC] | $\begin{aligned} & \text { ID } \\ & \text { CD } \end{aligned}$ | $\begin{array}{\|c} \hline \text { MDAP/ } \\ \text { MAIS } \\ \text { Code } \\ \hline \end{array}$ | 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 $\qquad$ | $\begin{aligned} & \text { Unit Cost } \\ & \quad(\$ M) \\ & \hline \end{aligned}$ | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | 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) |
| Uncategorized |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| PMA Other Government Costs | A |  | - | - | - | - | - | 20.637 | - | - | 3.639 | - | - | 5.954 | - | - | - | - | - | 5.954 |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | - |  | - | 20.637 |  | - | 3.639 |  | - | 5.954 |  | - | - |  | - | 5.954 |
| Equipment | A |  | - | - | - | - | - | 24.643 | - | - | 4.259 | - | - | 25.683 | - | - | - | - | - | 25.683 |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | - |  | - | 24.643 |  | - | 4.259 |  | - | 25.683 |  | - | - |  | - | 25.683 |
| ACC Equipment | A |  | - | - | - | - | - | 42.098 | - | - | - | - | - | 50.523 | - | - | - | - | - | 50.523 |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | - |  | - | 42.098 |  | - | - |  | - | 50.523 |  | - | - |  | - | 50.523 |
| Subtotal: Uncategorized |  |  | - | - | - | - | - | 87.378 | - | - | 7.898 | - | - | 82.160 | - | - | - | - | - | 82.160 |
| Total |  |  | - | - | - | - | - | 87.378 | $\cdot$ | - | 7.898 | - | - | 82.160 | - | - | - | - | - | 82.160 |

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| Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2021 Air Force |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Date: February 2020 |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3080F / 03 / 7 |  |  |  |  |  |  |  | P-1 Line Item Number / Title: 837300 / Base Comm Infrastructure |  |  |  |  |  |  |  | Aggregated Items Title: Information Technology Services Management - Tactical Air Forces |  |  |  |  |
|  |  |  |  | ior Yea |  |  | FY 2019 |  |  | Y 2020 |  |  | 2021 B |  |  | 2021 O |  |  | 2021 To |  |
| Item Number / Title [DODIC] | $\begin{aligned} & \mathrm{ID} \\ & \mathrm{CD} \end{aligned}$ | $\begin{array}{\|c} \text { MDAPI } \\ \text { MAIS } \\ \text { Code } \\ \hline \end{array}$ | $\begin{array}{\|c} \substack{\text { Unit Cost } \\ (\$ M)} \\ \hline \end{array}$ | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | $\begin{aligned} & \text { Total } \\ & \text { Cost } \\ & (\$ M) \\ & \hline \end{aligned}$ | Unit Cost <br> (\$ 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) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | $\begin{aligned} & \hline \text { Total } \\ & \text { Cost } \\ & (\$ M) \\ & \hline \end{aligned}$ | Unit Cost (\$ M) | $\begin{gathered} \text { Qty } \\ (\text { (Each) } \end{gathered}$ | Total Cost <br> (\$ M) | Unit Cost (\$ M) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | $\begin{aligned} & \text { Total } \\ & \text { Cost } \\ & (\$ M) \end{aligned}$ |
| ITSM - Tactical AF's |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Base Communications Infrastructure Equipment | A |  | - | - | - | - | - | 9.535 | - | - | 9.664 | - | . | 0.187 | - | - | 0.000 | - | - | 0.187 |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | - |  |  | 9.535 |  | - | 9.664 |  | - | 0.187 |  | - | 0.000 |  | - | 0.187 |
| Subtotal: ITSM - Tactical AF's |  |  | - | - | - | - |  | 9.535 | - | - | 9.664 | - | - | 0.187 | - | - | 0.000 | - | - | 0.187 |
| Total |  |  | - | - | - | - | - | 9.535 | - | - | 9.664 | - | - | 0.187 | - | - | 0.000 | - | - | 0.187 |

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| Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2021 Air Force ${ }^{\text {a }}$ ( Da |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Date: February 2020 <br> Aggregated Items Title: <br> EIT CONNECT |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3080F / 03 / 7 |  |  |  |  |  |  |  | P-1 Line Item Number / Title: 837300 / Base Comm Infrastructure |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  | Prior Years |  |  | FY 2019 |  |  | FY 2020 |  |  | FY 2021 Base |  |  | FY 2021 OCO |  |  | FY 2021 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 <br> Cost <br> (\$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 Cost (\$ 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 <br> (\$ M) |
| ACC E\&I |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| ACC Lead Command Base Communications Infrastructure | A |  | - | - | - | - |  | 0.000 | - | - | 7.934 | - | - | 16.289 | - | - | - | - | - | 16.289 |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | - |  |  | 0.000 |  | - | 7.934 |  | - | 16.289 |  | - | - |  | - | 16.289 |
| Subtotal: ACC E\&I |  |  | - | - | - | - | - | 0.000 | - | - | 7.934 | - | - | 16.289 | - | - | - | - | - | 16.289 |
| Total |  |  | - |  | - | - |  | 0.000 | - | - | 7.934 | - | - | 16.289 | - | - | - | - | - | 16.289 |

Note: Subtotals or Totals in this Exhibit P-40a may not be exact or sum exactly, due to rounding.
Remarks:
 under the Enterprise Information Technology portfolio.

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| Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2021 Air Force |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Date: February 2020 |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3080F / 03 / 7 |  |  |  |  |  |  |  | P-1 Line Item Number / Title: 837300 / Base Comm Infrastructure |  |  |  |  |  |  |  | Aggregated Items Title: EIT END USER DEVICES |  |  |  |  |
|  | $\begin{aligned} & \text { ID } \\ & \text { CD } \end{aligned}$ | mDAP/ MAIS Code | Prior Years |  |  | FY 2019 |  |  | FY 2020 |  |  | FY 2021 Base |  |  | FY 2021 OCO |  |  | FY 2021 Total |  |  |
| Item Number / <br> Title [DODIC] |  |  | 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) | 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) |
| ITSM |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AFMC Base Communications Infrastructure Equipment | A |  | - | - | - | - | - | 0.000 | - | - | 0.000 | - | - | 11.996 | - | - | 30.717 | - |  | 42.713 |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  |  |  |  |  | 0.000 |  |  | 0.000 |  |  | 11.996 |  | - | 30.717 |  |  | 42.713 |
| Subtotal: ITSM |  |  | - |  |  | - |  | 0.000 | - |  | 0.000 | - | - | 11.996 | - | - | 30.717 | - |  | 42.713 |
| Total |  |  | - | - | - | - | - | 0.000 | - | - | 0.000 | - | - | 11.996 | - | - | 30.717 | - | - | 42.713 |
| Note: Subtotals or Totals in this Exhibit P-40a may not be exact or sum exactly, due to rounding. <br> Remarks: <br>  <br>  <br>  <br>  portfolio. <br>  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

UNCLASSIFIED

| Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2021 Air Force |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Date: February 2020 |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3080F / 03 / 7 |  |  |  |  |  |  |  | P-1 Line Item Number / Title: 837300 / Base Comm Infrastructure |  |  |  |  |  |  | Aggregated Items Title: Information Technology Services Management - Mobility Air Forces |  |  |  |  |  |
|  |  |  | Prior Years |  |  | FY 2019 |  |  | FY 2020 |  |  | FY 2021 Base |  |  | FY 2021 OCO |  |  | FY 2021 Total |  |  |
| Item Number / Title [DODIC] | $\begin{aligned} & \text { ID } \\ & \mathrm{CD} \end{aligned}$ | $\begin{array}{\|c} \text { MDAPI } \\ \text { MAIS } \\ \text { code } \\ \hline \end{array}$ | $\begin{array}{\|c} \substack{\text { Unit Cost } \\ (\$ M)} \\ \hline \end{array}$ | $\begin{gathered} \text { Qty } \\ (\text { (Each) } \end{gathered}$ | Total Cost (\$ M) | Unit Cost (\$ M) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | $\begin{aligned} & \hline \text { Total } \\ & \text { Cost } \\ & (\$ M) \\ & \hline \end{aligned}$ | Unit Cost $(\$ M)$ | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | Total Cost <br> (\$ M) | Unit Cost (\$ M) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | 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 (\$M) |
| ITSM - Mobility AF's |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AFDW Base Communications Infrastructure Equipment | A |  | - | - | - | - | - | 0.768 | - | - | 0.780 | - | - | 0.000 | - | - | - | - |  | 0.000 |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | - |  |  | 0.768 |  | - | 0.780 |  | - | 0.000 |  | - | - |  | - | 0.000 |
| Subtotal: ITSM - Mobility AF's |  |  | $\cdot$ | - | - | - |  | 0.768 | - | - | 0.780 | - | - | 0.000 | - | - | - | $\cdot$ | - | 0.000 |
| Total |  |  | - | - | - | - |  | - 0.768 | - | - | 0.780 | - | - | 0.000 | - | - | - | - | - | 0.000 |

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| Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2021 Air Force |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Date: February 2020 |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3080F / 03 / 7 |  |  |  |  |  |  | P-1 Line Item Number / Title: <br> 837300 / Base Comm Infrastructure |  |  |  |  |  |  |  | Aggregated Items Title: Information Technology Services Management - AFR |  |  |  |  |
|  |  MDAP/ <br> ID MAIs <br> CD Code | Prior Years |  |  | FY 2019 |  |  | FY 2020 |  |  | FY 2021 Base |  |  | FY 2021 OCO |  |  | FY 2021 Total |  |  |
| Item Number / Title [DODIC] |  | $\begin{array}{\|c} \substack{\text { Unit Cost } \\ (\$ M)} \\ \hline \end{array}$ | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | $\begin{aligned} & \text { Total } \\ & \text { Cost } \\ & (\$ M) \\ & \hline \end{aligned}$ | Unit Cost <br> (\$ M) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | $\begin{aligned} & \text { Total } \\ & \text { Cost } \end{aligned}$ (\$ M) | Unit Cost (\$ M) | $\begin{gathered} \text { Qty } \\ (\text { (Each) } \end{gathered}$ | $\begin{aligned} & \text { Total } \\ & \text { Cost } \end{aligned}$ (\$ M) | Unit Cost (\$ M) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | $\begin{aligned} & \hline \text { Total } \\ & \text { Cost } \\ & (\$ M) \\ & \hline \end{aligned}$ | Unit Cost (\$ M) | $\begin{gathered} \text { Qty } \\ (\text { (Each) } \end{gathered}$ | Total Cost <br> (\$ M) | Unit Cost (\$M) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | $\begin{aligned} & \text { Total } \\ & \text { Cost } \\ & (\$ M) \end{aligned}$ |
| ITSM - AFR |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AFRC Base Communications Infrastructure Equipment | A | - | - | - | - | - | 0.340 | - | - | 0.346 | - | - | 0.352 | - | - |  | - | - | 0.352 |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AFR |  |  | - | - |  | - | 0.340 |  | - | 0.346 |  | - | 0.352 |  | - | - |  | - | 0.352 |
| Subtotal: ITSM - AFR |  | - | - | - | - | - | 0.340 | - | - | 0.346 | - | - | 0.352 | - | - | - | - | - | 0.352 |
| Total |  | - | - | - | - | - | 0.340 | - | - | 0.346 | - | - | 0.352 | - | - | - | - | - | 0.352 |

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| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3080F / 03 / 7 |  |  |  |  |  |  |  | P-1 Line Item Number / Title: 837300 / Base Comm Infrastructure |  |  |  |  |  |  | Aggregated Items Title: Information Technology Services Management - ANG |  |  |  |  |  |
|  |  |  |  | rior Yea |  |  | FY 2019 |  |  | Y 2020 |  |  | 2021 B |  |  | 2021 O |  |  | 2021 T |  |
| Item Number / Title [DODIC] | $\begin{aligned} & \mathrm{ID} \\ & \mathrm{CD} \end{aligned}$ | $\begin{array}{\|l} \text { MDAP// } \\ \text { MAIS } \\ \text { Code } \end{array}$ | Unit Cost (\$ M) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost (\$ M) | Unit Cost (\$M) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | $\begin{aligned} & \hline \text { Total } \\ & \text { Cost } \\ & (\$ M) \\ & \hline \end{aligned}$ | Unit Cost (\$ M) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost (\$ M) | Unit Cost <br> (\$M) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | $\begin{aligned} & \text { Total } \\ & \text { Cost } \\ & (\$ M) \\ & \hline \end{aligned}$ | 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 <br> (\$ M) |
| ITSM - ANG |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| ANG Base Communications Infrastructure Equipment | A |  | - | - | - | - | - | 3.291 | - | - | 3.924 | - | - | 9.675 | - | - | - | - | - | 9.675 |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AFNG |  |  |  | - | - |  | - | 3.291 |  | - | 3.924 |  | - | 9.675 |  | - | - |  | - | 9.675 |
| Subtotal: ITSM - ANG |  |  | - | - | - | - | - | 3.291 | - | - | 3.924 | - | - | 9.675 | - | - | - | - | - | 9.675 |
| Total |  |  | - | - | - | - | - | 3.291 | - | - | 3.924 | - | - | 9.675 | - | - | - | - | - | 9.675 |

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| Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2021 Air Force ${ }^{\text {a }}$ ( Da |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Date: February 2020 <br> Aggregated Items Title: <br> Information Technology Services <br> Management - Logistics |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3080F / 03 / 7 |  |  |  |  |  |  |  | P-1 Line Item Number / Title: 837300 / Base Comm Infrastructure |  |  |  |  |  |  | $\begin{array}{\|l} \hline \mathrm{A} \\ \text { In } \\ \mathrm{M} \end{array}$ |  |  |  |  |  |
|  |  |  |  | ior Yea |  | FY 2019 |  |  | FY 2020 |  |  | FY 2021 Base |  |  | FY 2021 OCO |  |  | FY 2021 Total |  |  |
| Item Number / Title [DODIC] | $\begin{aligned} & \mathrm{ID} \\ & \mathrm{CD} \end{aligned}$ | $\begin{array}{\|c} \text { MDAPI } \\ \text { MAIS } \\ \text { code } \\ \hline \end{array}$ | $\begin{array}{\|c} \substack{\text { Unit Cost } \\ (\$ M)} \\ \hline \end{array}$ | $\begin{gathered} \text { Qty } \\ (\text { (Each) } \end{gathered}$ | Total Cost (\$ M) | Unit Cost (\$ M) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | $\begin{aligned} & \hline \text { Total } \\ & \text { Cost } \\ & (\$ M) \\ & \hline \end{aligned}$ | $\begin{array}{\|} \text { Unit Cost } \\ (\$ M) \end{array}$ | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | 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 (\$M) |
| ITSM - Logistics |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AFMC Base Communications Infrastructure Equipment | A |  | - | - | - | - | - | 1.647 | - | - | 2.011 | - | - | 0.000 | - | - | - | - |  | 0.000 |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | - |  | - | 1.647 |  | - | 2.011 |  | - | 0.000 |  | - | - |  | - | 0.000 |
| Subtotal: ITSM - Logistics |  |  | $\cdot$ | - | - | - | - | 1.647 | - | - | 2.011 | - | $\cdot$ | 0.000 | - | - | - | $\cdot$ | - | 0.000 |
| Total |  |  | - | - | - | - | - | 1.647 | - | - | 2.011 | - | - | 0.000 | - | - | - | - | - | 0.000 |

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| Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2021 Air Force ${ }^{\text {a }}$ ( Da |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Date: February 2020 <br> Aggregated Items Title: <br> Information Technology Services <br> Management - Training |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3080F / 03 / 7 |  |  |  |  |  |  |  | P-1 Line Item Number / Title: 837300 / Base Comm Infrastructure |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  | ior Yea |  | FY 2019 |  |  | FY 2020 |  |  | FY 2021 Base |  |  | FY 2021 OCO |  |  | FY 2021 Total |  |  |
| Item Number / Title [DODIC] | $\begin{aligned} & \mathrm{ID} \\ & \mathrm{CD} \end{aligned}$ | $\begin{array}{\|c} \text { MDAPI } \\ \text { MAIS } \\ \text { code } \\ \hline \end{array}$ | $\begin{array}{\|c} \substack{\text { Unit Cost } \\ (\$ M)} \\ \hline \end{array}$ | $\begin{gathered} \text { Qty } \\ (\text { (Each) } \end{gathered}$ | Total Cost (\$ M) | Unit Cost (\$ M) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | $\begin{aligned} & \hline \text { Total } \\ & \text { Cost } \\ & (\$ M) \\ & \hline \end{aligned}$ | $\begin{array}{\|} \text { Unit Cost } \\ (\$ M) \end{array}$ | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost <br> (\$ M) | Unit Cost (\$ M) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | Total Cost $\qquad$ | 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 (\$M) |
| ITSM - Training |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AETC Base Communications Infrastructure Equipment | A |  | - | - | - | - | - | 0.282 | - | - | 1.111 | - | - | 0.000 | - | - | - | - |  | 0.000 |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | - |  | - | 0.282 |  | - | 1.111 |  | - | 0.000 |  | - | - |  | - | 0.000 |
| Subtotal: ITSM - Training |  |  | $\cdot$ | - | - | - | - | 0.282 | - | - | 1.111 | - | $\cdot$ | 0.000 | - | - | - | $\cdot$ | - | 0.000 |
| Total |  |  | - | - | - | - | - | 0.282 | - | - | 1.111 | - | - | 0.000 | - | - | - | - | - | 0.000 |

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Exhibit P-40, Budget Line Item Justification: PB 2021 Air Force
Date: February 2020
Appropriation / Budget Activity / Budget Sub Activity:
3080F: Other Procurement, Air Force / BA 03: Electronics and Telecommunications
Equip / BSA 8: Modifications

P-1 Line Item Number / Title:
838010 / Comm Elect Mods

ID Code (A=Service Ready, B=Not Service Ready): A
Program Elements for Code B Items: 0604281F
Other Related Program Elements: 0305114F, 0305137F
Line Item MDAP/MAIS Code: None

| Resource Summary | Prior <br> Years | FY 2019 | FY 2020 | $\text { FY } 2021$ Base | $\begin{gathered} \text { FY } 2021 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \text { FY } 2021 \\ \text { Total } \end{gathered}$ | FY 2022 | FY 2023 | FY 2024 | FY 2025 | To Complete | Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Procurement Quantity (Units in Each) | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Cost (\$ in Millions) | 66.153 | 11.486 | 14.500 | 21.471 | - | 21.471 | 18.810 | 4.962 | 5.044 | 5.127 | - | 147.553 |
| Less PY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Net Procurement (P-1) (\$ in Millions) | 66.153 | 11.486 | 14.500 | 21.471 | - | 21.471 | 18.810 | 4.962 | 5.044 | 5.127 | - | 147.553 |
| Plus CY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Total Obligation Authority (\$ in Millions) | 66.153 | 11.486 | 14.500 | 21.471 | - | 21.471 | 18.810 | 4.962 | 5.044 | 5.127 | - | 147.553 |
| (The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.) |  |  |  |  |  |  |  |  |  |  |  |  |
| Initial Spares (\$ in Millions) | - | 1.013 | - | - | - | - | - | - | - | - | - | 1.013 |
| Flyaway Unit Cost (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Unit Cost (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |

## Description:

PE 0604281F Tactical Data Networks Enterprise - P-40A



 link to accomplish time critical targeting and other mission update functions. TDLs are used by all service theater Command and Control (C2) elements, weapons platforms, and sensors.



 processes; studying and incorporating data link technologies to ensure effectiveness and efficiency of the Global Strike and Global Persistent Attack CONOPS.
 support, and training. These systems will add capability to modernize CONUS/OCONUS ground based strike decisions in the hostile environment.

PE 0102412F North Warning Systems POR - P-40A Talon Archer
Parts support for Talon Archer at the North Warning System Sites
PE 0305114F Air Traffic Control and Landing Systems (ATCALS) - P-40A - Low Cost Modifications



 dollar modifications are not provided to reverse unfavorable operational availability metrics.
PE 0305137F National Airspace System (NAS) - P-40A Low Cost Mods/NAS Mods

| Appropriation / Budget Activity / Budget Sub Activity: |
| :--- |
| 3080F: Other Procurement, Air Force / BA 03: Electronics and Telecommunications |
| Equip / BSA 8: Modifications |

## P-1 Line Item Number / Title: <br> 838010 / Comm Elect Mods

ID Code (A=Service Ready, B=Not Service Ready): A
Program Elements for Code B Items: 0604281F
Other Related Program Elements: 0305114F, 0305137F

## Line Item MDAP/MAIS Code: None

FY21 funding continues NAS Low Cost Modifications (NAS Mod 2 and mitigation of diminishing manufacturing sources (NAS Mod 4).

PE 1203873F BALLISTIC MISSILE DEFENSE RADARS - Cobra Dane Radar
 maintain operational access and sustainment of the COBRA DANE radar residing on Shemya Island,AK.

PE 1203909F Ballistic Missile Early Warning System (BMEWS) - P-40A






 Greenland; Clear Air Force Station, AK; and Royal Air Force (RAF) Fylingdales, UK. Additionally there is a site for testing (System Program Agency) located in the Centralized Integration Support Facility (CISF) at Peterson AFB, CO.

PE 0305137F National Airspace System (NAS) - P-40A Low Cost Mods/NAS Mods


 diminishing manufacturing sources (NAS Mod 4).

PE 1203912F Submarine-Launched Ballistic Missile (SLBM) Radar Warning System - P-40A
PE 1203912F






 Additionally there is a site for testing (System Program Agency) located in the Centralized Integration Support Facility (CISF) at Peterson AFB, CO.

| Secondary Distribution |  | FY 2019 | FY 2020 | FY 2021 <br> Base | $\begin{aligned} & \text { FY } 2021 \\ & \text { OCO } \end{aligned}$ | $\begin{gathered} \text { FY } 2021 \\ \text { Total } \end{gathered}$ | FY 2022 | FY 2023 | FY 2024 | FY 2025 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| AF | Quantity | 0 | 0 | 28 | 0 | 28 | - | - | - | - |
|  | Total Obligation Authority | 11.486 | 14.500 | 21.471 | 0.000 | 21.471 | 12.324 | 4.462 | 4.544 | 4.627 |

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| Exhibit P-40, Budget Line Item Justification: PB 2021 Air Force |  |  |  |  |  |  |  | Date: February 2020 |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: <br> 3080F: Other Procurement, Air Force / BA 03: Electronics and Telecommunications Equip / BSA 8: Modifications |  |  |  |  | P-1 Line Item Number / Title: 838010 / Comm Elect Mods |  |  |  |  |  |
| ID Code (A=Service Ready, B=Not Service Ready): A |  |  | Program Elements for Code B Items: 0604281F |  |  |  | Other Related Program Elements: 0305114F, 0305137F |  |  |  |
| Line Item MDAP/MAIS Code: None |  |  |  |  |  |  |  |  |  |  |
| Secondary Distribution |  | FY 2019 | FY 2020 | $\begin{gathered} \text { FY } 2021 \\ \text { Base } \end{gathered}$ | $\begin{aligned} & \text { FY } 2021 \\ & \text { OCO } \end{aligned}$ | $\begin{gathered} \text { FY } 2021 \\ \text { Total } \end{gathered}$ | FY 2022 | FY 2023 | FY 2024 | FY 2025 |
| AFNG | Quantity | 0 | 0 | 0 | 0 | 0 | - | - | - | - |
|  | Total Obligation Authority | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | - | - | - | - |
| AFR | Quantity | 0 | 0 | 0 | 0 | 0 | - | - | - | - |
|  | Total Obligation Authority | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | - | - | - | - |
| Total: <br> Secondary Distribution | Quantity | 0 | 0 | 28 | 0 | 28 | - | - | - | - |
|  | Total Obligation Authority | 11.486 | 14.500 | 21.471 | 0.000 | 21.471 | 12.324 | 4.462 | 4.544 | 4.627 |

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


## P-1 Line Item Number / Title:

 838010 / Comm Elect Mods Equip / BSA 8: ModificationsID Code (A=Service Ready, B=Not Service Ready): A
Program Elements for Code B Items: 0604281F
Other Related Program Elements: 0305114F, 0305137F
Line Item MDAP/MAIS Code: None

| Exhibits Schedule |  |  |  |  | Prior Years | FY 2019 | FY 2020 | FY 2021 Base | FY 2021 OCO | FY 2021 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 | North Warning System (NWS) |  |  |  | 1 | - 10.000 | - 10.000 | - 17.991 | - 1 - | - 17.991 |
| P-40a | Air Traffic Control, Approach, and Landing System (ATCALS) |  |  |  | - 154.431 | - 11.850 | - 11.858 | - 11.882 | - 10.000 | - 11.882 |
| P-40a | National Airspace System (NAS) Plan |  |  |  | - /11.722 | - 19.636 | - 15.694 | - 13.668 | - 10.000 | - 13.668 |
| P-40a | Tactical Data Networks Enterprise |  |  |  | 1 | - 10.000 | - 1 | - 17.930 | - 1 | - 17.930 |
| P-40a | Tactical Data Networks Enterprise |  |  |  | - 10.000 | 10.000 | - 16.948 | - 10.000 | - 10.000 | - 10.000 |
| P-40 | Total Gross/Weapon System Cost |  |  |  | - $/ 66.153$ | - / 11.486 | - /14.500 | - 121.471 | - 1 | 121.471 |
| Exhibits Schedule |  |  |  |  | FY 2022 | FY 2023 | FY 2024 | FY 2025 | To Complete | Total |
| Exhibit Type | Title* | Subexhibits | $\begin{array}{\|l\|l\|} \hline \text { ID } \\ \text { Co } \end{array}$ | MDAP/ MAIS Code | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) |
| P-40a | North Warning System (NWS) |  |  |  | 1 | 1 | - 1- | - 1- | 1 | - 1 - |
| P-40a | Air Traffic Control, Approach, and Landing System (ATCALS) |  |  |  | - / 1.910 | - / 1.945 | - / 1.981 | - 12.017 | - 10.000 | - $/ 67.874$ |
| P-40a | National Airspace System (NAS) Plan |  |  |  | - 12.474 | - 12.517 | - 12.563 | - 12.610 | - 10.000 | 140.884 |
| P-40a | Tactical Data Networks Enterprise |  |  |  | 1 | 1 | 1 | - 1 - | - 1 - | 1 |
| P-40a | Tactical Data Networks Enterprise |  |  |  | - 17.940 | - 10.000 | - 10.000 | - 10.000 | - 10.000 | - /14.888 |
| P-40 | Total Gross/Weapon System Cost |  |  |  | - /18.810 | 14.962 | - 15.044 | - 15.127 | - 1 - | - / 147.553 |

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

## Justification:

This program, Comm Elect Mods P-40A Category Talon Archer Item Antenna Parts, is a new start
PE 0102412F North Warning Systems POR - P-40A Talon Archer
FY21 funding procures antenna parts for Talon Archer North Warning System Sites.
PE 0604281F Tactical Data Networks Enterprise - P-40A
FY21 funding required to procure Tactical Data Link Planning Analysis and Monitoring Tool
PE 0305114F Air Traffic Control and Landing Systems (ATCALS) - P-40A - Low Cost Modifications
FY21 funds continue ATCALS low cost modifications as prioritized by the WSR-EC.

PE 0305137F National Airspace System (NAS) - P-40A Low Cost Mods/NAS Mods
FY21 funding continues NAS Low Cost Modifications (NAS Mod 2 and mitigation of diminishing manufacturing sources (NAS Mod 4)

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| Exhibit P-40, Budget Line Item Justification: PB 2021 Air Force |  | Date: February 2020 |
| :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: <br> 3080F: Other Procurement, Air Force / BA 03: Electronics and Telecommunications Equip / BSA 8: Modifications | P-1 Line Item Number / Title: 838010 / Comm Elect Mods |  |
| ID Code (A=Service Ready, B=Not Service Ready): A Program Elements for Code B Ite | Program Elements for Code B Items: 0604281F | Other Related Program Elements: 0305114F, 0305137F |
| Line Item MDAP/MAIS Code: None |  |  |
| Efforts with funding starting in FY 2022 through FY 2025 are summarized on the P-40. Not all deta follows: | of this funding are included in this <br> (a) FY 2022 Cost Delta: 6.486 million <br> ${ }^{\text {(b) }}$ FY 2023 Cost Delta: 0.500 million <br> ${ }^{(c)}$ FY 2024 Cost Delta: 0.500 million <br> ${ }^{(d)}$ FY 2025 Cost Delta: 0.500 million <br> ${ }^{(\mathrm{e})}$ FY Total Cost Delta: 23.907 million | t. A summary of the excepted details is as |

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|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Date: February 2020 <br> Aggregated Items Title: <br> North Warning System (NWS) |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3080F / 03 / 8 |  |  |  |  |  |  |  | P-1 Line Item Number / Title: 838010 / Comm Elect Mods |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  | ior Yea |  | FY 2019 |  |  | FY 2020 |  |  | FY 2021 Base |  |  | FY 2021 OCO |  |  | FY 2021 Total |  |  |
| Item Number / Title [DODIC] | $\begin{aligned} & \mathrm{ID} \\ & \mathrm{CD} \end{aligned}$ | $\begin{gathered} \text { MDAPII } \\ \text { MAIS } \\ \text { code } \\ \hline \end{gathered}$ | $\begin{array}{\|c} \substack{\text { Unit Cost } \\ (\$ M)} \\ \hline \end{array}$ | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | Total Cost (\$M) | $\begin{array}{\|c\|} \hline \text { Unit Cost } \\ (\$ M) \end{array}$ | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | $\begin{aligned} & \text { Total } \\ & \text { Cost } \end{aligned}$ $(\$ M)$ | Unit Cost (\$ M) | $\begin{gathered} \text { Qty } \\ (\text { (Each) } \end{gathered}$ | Total Cost <br> (\$ M) | Unit Cost (\$ M) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | $\begin{aligned} & \text { Total } \\ & \text { Cost } \\ & (\$ M) \\ & \hline \end{aligned}$ | Unit Cost (\$ M) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | Total Cost <br> (\$ M) | Unit Cost (\$ M) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | $\begin{aligned} & \text { Total } \\ & \text { Cost } \\ & (\$ M) \\ & \hline \end{aligned}$ |
| Talon Archer |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Antenna Parts | A |  | - | - | - | - | - | 0.000 | - | - | 0.000 | - | - | 7.991 | - | - | - | - | - | 7.991 |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | - |  | - | 0.000 |  | - | 0.000 |  | - | 7.991 |  | - | - |  | - | 7.991 |
| Subtotal: Talon Archer |  |  | - | - | - | - | - | 0.000 | - | - | 0.000 | - | - | 7.991 | - | - | - | - | - | 7.991 |
| Total |  |  | - | - | - | - | - | 0.000 | - | - | 0.000 | - | - | 7.991 | - | - | - | - | - | 7.991 |

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| Exhibit P-40a, Budget Item Justification For Aggregated Modification Items: PB 2021 Air Force |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Date: February 2020 |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity:$\text { 3080F / } 03 \text { / } 8$ |  |  |  |  |  |  |  | P-1 Line Item Number / Title: 838010 / Comm Elect Mods |  |  |  |  |  |  |  | Aggregated Modification Items Title: Air Traffic Control, Approach, and Landing System (ATCALS) |  |  |  |  |
|  | $\begin{aligned} & \text { ID } \\ & \text { CD } \end{aligned}$ | $\begin{gathered} \text { MDAPI } \\ \text { MAIS } \\ \text { Code } \end{gathered}$ | Prior Years |  |  | FY 2019 |  |  | FY 2020 |  |  | FY 2021 Base |  |  | FY 2021 OCO |  |  | FY 2021 Total |  |  |
| Item Number / Title |  |  | 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 (\$ M) | Unit Cost (\$ M) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost <br> (\$ M) |
| AN/GRN-29 Instrument Landing System / ATCALS AN/GRN-29 Instrument Landing System (PE 0305114F) |  |  | - | - | 44.594 | - | - | 0.000 | - | - | - | - | - | - | - | - | - | - | - | - |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | - |  | - | 0.000 |  | - | - |  | - | - |  | - | - |  | - | - |
| ATCALS / Deployable TACAN Retrofit/ Refurbishment |  |  | - | - | 3.800 | - | - | - - | - | - | - | - | - | - | - | - | - | - | - | - |
| P-3A Low Cost Mods / ATCALS Low Cost Mods (PE 0305114F) |  |  | - | - | 6.037 | - | - | 1.850 | - | - | 1.858 | - | - | 1.882 | - | - | - | - | - | 1.882 |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | - |  | - | 1.850 |  | - | 1.858 |  | - | 1.882 |  | - | - |  | - | 1.882 |
| Total |  |  | $\cdot$ | - | 54.431 | - | - | 1.850 | - | - | 1.858 | - | - | 1.882 | - | - | 0.000 | - | - | 1.882 |
|  |  |  | FY 2022 |  |  | FY 2023 |  |  | FY 2024 |  |  | FY 2025 |  |  | To Complete |  |  | Total Cost |  |  |
| Item Number / Title | $\begin{aligned} & \text { ID } \\ & \text { CD } \end{aligned}$ | MDAP/ MAIS 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 (\$ M) | Unit Cost (\$ M) | $\underset{(E a c h)}{\text { Qty }}$ | 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) |
| AN/GRN-29 Instrument Landing System / ATCALS AN/GRN-29 Instrument Landing System (PE 0305114F) |  |  | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 44.594 |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | - |  | - | - |  | - | - |  | - | - |  | - | - |  | - | - |
| ATCALS / Deployable TACAN Retrofit/ Refurbishment |  |  | - | - | - | - | - | - - | - | - | - | - | - | - | - | - | - | - | - | 3.800 |
| P-3A Low Cost Mods / ATCALS Low Cost Mods (PE 0305114F) |  |  | - | - | 1.910 | - | - | 1.945 | - | - | 1.981 | - | - | 2.017 | - | - | - | - | - | 19.480 |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | 1.910 |  | - | 1.945 |  | - | 1.981 |  | - | 2.017 |  | - | - |  | - | - |
| Total |  |  | - | - | 1.910 | - | - | 1.945 | - | - | 1.981 | - | - | 2.017 | - | - | 0.000 | - | - | 67.874 |

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

## Modification Information:

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| Exhibit P-40a, Budget Item Justification For Aggregated Modification Items: PB 2021 Air Force |  |  | Date: February 2020 |
| :---: | :---: | :---: | :---: |
| Appropriation / Budget 3080F / 03 / 8 | Activity / Budget Sub Activity: | P-1 Line Item Number / Title: 838010 / Comm Elect Mods | Aggregated Modification Items Title: Air Traffic Control, Approach, and Landing System (ATCALS) |
| Item Number / Title | Models of Systems Affected | Modification Type |  |
| AN/GRN-29 Instrument Landing System / ATCALS AN/GRN-29 Instrument Landing System (PE 0305114F) | GRN-29 | Capability Improvement |  |
| ATCALS / Deployable TACAN Retrofit/ Refurbishment | TRN-48 | Reliability \& Maintainability |  |
| P-3A Low Cost Mods / ATCALS Low Cost Mods (PE 0305114F) | ATCALS | Reliability \& Maintainability |  |

## UNCLASSIFIED

| Exhibit P-40a, Budget Item Justification For Aggregated Modification Items: PB 2021 Air Force |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Date: February 2020 |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity:$\text { 3080F / } 03 \text { / } 8$ |  |  |  |  |  |  |  | P-1 Line Item Number / Title: <br> 838010 / Comm Elect Mods |  |  |  |  |  |  |  | Aggregated Modification Items Title: National Airspace System (NAS) Plan |  |  |  |  |
|  | $\begin{aligned} & \mathrm{ID} \\ & \mathrm{CD} \end{aligned}$ | MDAP/ <br> MAIS <br> Code | Prior Years |  |  | FY 2019 |  |  | FY 2020 |  |  | FY 2021 Base |  |  | FY 2021 OCO |  |  | FY 2021 Total |  |  |
| Item Number / Title |  |  | Unit Cost (\$ M) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | Total Cost (\$ 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) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | Total Cost (\$ M) | Unit Cost (\$ M) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost (\$ M) | Unit Cost (\$ M) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | Total Cost (\$ M) |
| NAS Mod 1 / NAS Gen4 MOD |  |  | - | - | 11.722 | - |  | 9.636 | - | - | - | - | - | - | - | - | - | - |  | - |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | - |  | - | - 9.636 |  | - | - |  | - | - |  | - | - |  | - | - |
| NAS Mod 2 / NAS Low Cost Mods |  |  | - | - | - | - |  | - | - | - | 1.854 | - | - | 1.892 | - | - | - | - |  | 1.892 |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | - |  |  | - |  | - | 1.854 |  | - | 1.892 |  | - | - |  | - | 1.892 |
| NAS Mod 3 / DASR Site Control Data Interface (SCDI) |  |  | - | - | - | - | - | - | - | - | 3.840 | - | - | - | - | - | - | - |  | - |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | - |  | - | - - |  | - | 3.840 |  | - | - |  | - | - |  | - | - |
| NAS Mod 4 / National Airspace System (NAS) Mod 4 |  |  | - | - | - | - | - | - | - | - | - | - | - | 1.776 | - | - | - | - |  | 1.776 |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | $\checkmark$ |  | - | - |  | - | - |  | - | 1.776 |  | - | - |  | - | 1.776 |
| Total |  |  | $\cdot$ | - | 11.722 | $\cdot$ |  | 9.636 | - | - | 5.694 | - | - | 3.668 | - | $\cdot$ | 0.000 | - | - | 3.668 |
|  |  |  | FY 2022 |  |  | FY 2023 |  |  | FY 2024 |  |  | FY 2025 |  |  | To Complete |  |  | Total Cost |  |  |
| Item Number / Title | $\begin{aligned} & \text { ID } \\ & \text { CD } \end{aligned}$ | MDAP/ <br> MAIS <br> Code | $\begin{gathered} \text { Unit Cost } \\ (\$ M) \\ \hline \end{gathered}$ | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost (\$ M) | 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 <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) |
| NAS Mod 1 / NAS Gen4 MOD |  |  | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 21.358 |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | - |  | - | - - |  | - | - |  | - | - |  | - | - |  | - | - |
| NAS Mod 2 / NAS Low Cost Mods |  |  | - | - | 1.870 | - | - | - 1.902 | - | - | 1.937 | - | - | 1.973 | - | - | - | - | - | 11.428 |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | 1.870 |  | - | - $\quad 1.902$ |  | - | 1.937 |  | - | 1.973 |  | - | - |  | - | - |
| NAS Mod 3 / DASR Site Control Data Interface (SCDI) |  |  | - | - | - | - | - | - | - | - | - | - | - | 0.637 | - | - | - | - | - | 4.477 |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | - |  | - | - |  | - | - |  | - | 0.637 |  | - | - |  | - | - |
| NAS Mod 4 / National Airspace System (NAS) Mod 4 |  |  | - | - | 0.604 | - | - | - 0.615 | - | - | 0.626 | - | - | - | - | - | - | - | - | 3.621 |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | 0.604 |  |  | - $\quad 0.615$ |  | - | 0.626 |  | - | - |  | - | - |  | - | - |

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| Exhibit P-40a, Budget Item Justification For Aggregated Modification Items: PB 2021 Air Force |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Date: February 2020 <br> Aggregated Modification Items Title: National Airspace System (NAS) Plan |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3080F / 03 / 8 |  |  |  |  |  |  |  | $\|$P-1 Line Item Number / Title: <br> $838010 ~ / ~ C o m m ~ E l e c t ~ M o d s ~$ <br> $23 \quad$ FY 2024 |  |  |  | FY 2025 |  |  |  |  |  |  |  |  |
|  |  |  |  | FY 2022 |  | FY 2023 |  |  |  |  |  | To Complete | Total Cost |  |  |  |  |  |  |  |
| Item Number / Title | $\left.\begin{aligned} & \mathrm{ID} \\ & \mathrm{CD} \end{aligned} \right\rvert\,$ | $\begin{array}{\|c\|c\|} \hline \text { MDAP/ } \\ \text { MAIS } \\ \text { Code } \end{array}$ | 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) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | 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) |
| Total |  |  | - | - | 2.474 | - | - | 2.517 | - | - | 2.563 | - | - | 2.610 | - | - | 0.000 | - | - | 40.884 |

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 |
| :--- | :--- | :--- |
| NAS Mod 1 / NAS Gen4 MOD | NASMod-1 | Capability Improvement |
| NAS Mod 2 / NAS Low Cost Mods | NAS | Reliability \& Maintainability |
| NAS Mod 3 / DASR Site Control Data <br> Interface (SCDI) | NAS | Reliability \& Maintainability |
| NAS Mod 4 / National Airspace System <br> (NAS) Mod 4 | NAS | Reliability \& Maintainability |

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| Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2021 Air Force |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Date: February 2020 |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3080F / 03 / 8 |  |  |  |  |  |  | P-1 Line Item Number / Title: 838010 / Comm Elect Mods |  |  |  |  |  |  |  | Aggregated Items Title: <br> Tactical Data Networks Enterprise |  |  |  |  |
|  |  | Prior Years |  |  | FY 2019 |  |  | FY 2020 |  |  | FY 2021 Base |  |  | FY 2021 OCO |  |  | FY 2021 Total |  |  |
| Item Number / Title [DODIC] | ID MDAPI <br> CD MAIS <br> code  | Unit Cost (\$ M) | $\begin{aligned} & \text { (Each) } \end{aligned}$ | Total Cost (\$M) | Unit Cost (\$ M) | $\begin{aligned} & \text { (Each) } \end{aligned}$ | Total Cost <br> (\$ M) | Unit Cost (\$ M) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | Total Cost <br> (\$ M) | Unit Cost <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) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | Total Cost <br> (\$ M) |
| Tactical Data Network Enterprise PE 64281F |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Tactical Data Link Planning Analysis and Monitoring Tool | A | . | - | - | - |  | 0.000 | - | - | - | 0.283 | 28 | 7.930 | - | - | - | 0.283 | 28 | 7.930 |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  | - | - |  | - | 0.000 |  | - | - |  | 28 | 7.930 |  | - | - |  | 28 | 7.930 |
| Subtotal: Tactical Data Network Enterprise PE 64281F |  | - | - | - | - |  | 0.000 | - | - | - | - | - | 7.930 | - | - | - | - | - | 7.930 |
| Total |  | - | - | - | - | - | - 0.000 | - | - | - | - | - | 7.930 | - | - | - | - | - | 7.930 |

## UNCLASSIFIED

| Exhibit P-40a, Budget Item Justification For Aggregated Modification Items: PB 2021 Air Force |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Date: February 2020 |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3080F / 03 / 8 |  |  |  |  |  |  |  | P-1 Line Item Number / Title: 838010 / Comm Elect Mods |  |  |  |  |  |  |  | Aggregated Modification Items Title: Tactical Data Networks Enterprise |  |  |  |  |
|  | $\begin{aligned} & \text { ID } \\ & \text { CD } \end{aligned}$ | MDAP/ MAIS Code | Prior Years |  |  | FY 2019 |  |  | FY 2020 |  |  | FY 2021 Base |  |  | FY 2021 OCO |  |  | FY 2021 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) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | 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) |
| TDNE / Tactical Data Networks Enterprise |  |  | - | - | - | - | - | - | - | - | 6.948 | - | - | - | - | - | - | - |  | - |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | - |  | - | - |  | - | 6.948 |  |  | - |  | - | - |  | - | - |
| Total |  |  | - | - | 0.000 | - | - | 0.000 | - | - | 6.948 | - | - | 0.000 | - |  | 0.000 | - | - | 0.000 |
|  |  |  | FY 2022 |  |  | FY 2023 |  |  | FY 2024 |  |  | FY 2025 |  |  | 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 (\$ 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) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost <br> (\$ M) | Unit Cost (\$ M) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost (\$ M) |
| TDNE / Tactical Data Networks Enterprise |  |  | - | - | 7.940 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 14.888 |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | 7.940 |  | - | - |  | - | - |  | - | - |  | - | - |  | - | - |
| Total |  |  | - | - | 7.940 | - | - | 0.000 | - | - | 0.000 | - | - | 0.000 | - | - | 0.000 | - | - | 14.888 |

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 |
| :--- | :--- | :--- |
| TDNE / Tactical Data Networks <br> Enterprise | na | Other |


| Appropriation / Budget Activity / Budget Sub Activity: |
| :--- |
| 3080F: Other Procurement, Air Force / BA 04: Other Base Maintenance and |
| Support Equip / BSA 2: Personal Safety \& Rescue Equip |

## P-1 Line Item Number / Title:

842990 / Personal Safety and Rescue Equipment

| Resource Summary | Prior <br> Years | FY 2019 | FY 2020 | $\text { FY } 2021$ Base | $\begin{gathered} \text { FY } 2021 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \text { FY } 2021 \\ \text { Total } \end{gathered}$ | FY 2022 | FY 2023 | FY 2024 | FY 2025 | To Complete | Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Procurement Quantity (Units in Each) | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Cost (\$ in Millions) | - | 73.954 | 69.134 | 49.578 | 0.000 | 49.578 | 141.513 | 164.689 | 80.391 | 81.887 | - | 661.146 |
| Less PY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Net Procurement (P-1) (\$ in Millions) | - | 73.954 | 69.134 | 49.578 | 0.000 | 49.578 | 141.513 | 164.689 | 80.391 | 81.887 | - | 661.146 |
| Plus CY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Total Obligation Authority (\$ in Millions) | - | 73.954 | 69.134 | 49.578 | 0.000 | 49.578 | 141.513 | 164.689 | 80.391 | 81.887 | - | 661.146 |
| (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:

 warfighters with worldwide application.

Guardian Angel Family of Systems (GA FoS):

















 environment, the acquisition program manager has the authority to redirect funding as necessary to meet current slated and emerging requirements.

## Appropriation / Budget Activity / Budget Sub Activity: <br> 3080F: Other Procurement, Air Force / BA 04: Other Base Maintenance and Support Equip / BSA 2: Personal Safety \& Rescue Equip

ID Code (A=Service Ready, B=Not Service Ready): A
Program Elements for Code B Items: N/A
Other Related Program Elements: 0207227F, 0604706F

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






 supply ground and air forces with night vision equipment.

## Program changes in progress. This applies to PEC 0408011F.

Human Systems Program Office Items Less than \$5M:




 crew equipment. Items procured during execution may change based on critical equipment needed to support current Air Force mission requirements.


 missions.

 binocular goggle collimation, image quality, and image distortion. All NVGs require operational checkout.

 priorities.

Funding for this exhibit contained in PEs 0207227F, 0207433F, 0408011F, 0503113F and 0702833F.
 notice Diminishing Manufacturing Sources and Material Shortage (DMSMS) issues.\</span\>

## UNCLASSIFIED

| Exhibit P-40, Budget Line Item Justification: PB 2021 Air Force |  |  |  |  |  |  |  | Date: February 2020 |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: <br> 3080F: Other Procurement, Air Force / BA 04: Other Base Maintenance and Support Equip / BSA 2: Personal Safety \& Rescue Equip |  |  |  |  | P-1 Line Item Number / Title: <br> 842990 / Personal Safety and Rescue Equipment |  |  |  |  |  |
| ID Code (A=Service Ready, B=Not Service Ready): A |  | Program Elements for Code B Items: N/A |  |  |  | Other Related Program Elements: 0207227F, 0604706F |  |  |  |  |
| Line Item MDAP/MAIS Code: N/A |  |  |  |  |  |  |  |  |  |  |
| Secondary Distribution |  | FY 2019 | FY 2020 | $\begin{gathered} \text { FY } 2021 \\ \text { Base } \end{gathered}$ | $\begin{aligned} & \text { FY } 2021 \\ & \text { OCO } \end{aligned}$ | $\begin{gathered} \text { FY } 2021 \\ \text { Total } \end{gathered}$ | FY 2022 | FY 2023 | FY 2024 | FY 2025 |
| AF | Quantity | 355 | 4,766 | 4,943 | 0 | 4,943 | - | - | - | - |
|  | Total Obligation Authority | 73.806 | 68.984 | 49.391 | 0.000 | 49.391 | - | - | - | - |
| AFNG | Quantity | 10 | 10 | 12 | 0 | 12 | - | - | - | - |
|  | Total Obligation Authority | 0.099 | 0.100 | 0.132 | 0.000 | 0.132 | - | - | - | - |
| AFR | Quantity | 5 | 5 | 5 | 0 | 5 | - | - | - | - |
|  | Total Obligation Authority | 0.049 | 0.050 | 0.055 | 0.000 | 0.055 | - | - | - | - |
| Total: <br> Secondary Distribution | Quantity | 370 | 4,781 | 4,960 | 0 | 4,960 | - | - | - | - |
|  | Total Obligation Authority | 73.954 | 69.134 | 49.578 | 0.000 | 49.578 | - | - | - | - |



Exhibit P-5, Cost Analysis: PB 2021 Air Force

## Appropriation / Budget Activity / Budget Sub Activity:

 3080F / 04 / 2
## P-1 Line Item Number / Title: 842990 / Personal Safety and Rescue Equipment

Date: February 2020
Item Number / Title [DODIC]:
Guardian Angel

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


UNCLASSIFIED


## UNCLASSIFIED

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Date: February 2020 <br> Aggregated Items Title: <br> Items Less Than \$5 Million |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3080F / 04 / 2 |  |  |  |  |  |  |  | P-1 Line Item Number / Title: <br> 842990 / Personal Safety and Rescue Equipment |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  | ior Year |  | FY 2019 |  |  | FY 2020 |  |  | FY 2021 Base |  |  | FY 2021 OCO |  |  | FY 2021 Total |  |  |
| Item Number / Title [DODIC] | $\begin{aligned} & \text { ID } \\ & \text { CD } \end{aligned}$ | $\begin{array}{\|c\|c\|} \hline \text { MDAPI } \\ \text { MAIS } \\ \text { Code } \end{array}$ | 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 <br> (\$ 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 <br> (\$ M) |
| Special Tactics/Combat Control Equipment |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Special Tactics / Combat Control Equipment | A |  | . | - | - | - | - | 18.804 | - | - | 6.299 | - | - | 2.502 | - | - |  | - | - | 2.502 |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - |  |  | - | 18.804 |  | - | 6.299 |  | - | 2.502 |  | - | - |  | - | 2.502 |
| Subtotal: Special Tactics/ Control Equipment | Comb |  | - | - | - | - | - | 18.804 | - | - | 6.299 | - | - | 2.502 | - | - |  | - | - | 2.502 |
| Safety/Rescue/Aircrew Flight Equipment |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| PMA (Life Support) Other Government Cost/A\&AS Support | A |  | - | - | - | - | - | 0.787 | - | - | 1.050 | - | - | 1.010 | - | - | - | - | - | 1.010 |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - |  |  | - | 0.787 |  | - | 1.050 |  | - | 1.010 |  | - | - |  | - | 1.010 |
| Life Support Equipment | A |  | - | - | - | - | - | 1.213 | - | - | 1.308 | - | - | 2.168 | - | - | - | - | - | 2.168 |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | - |  | - | 1.213 |  | - | 1.308 |  | - | 2.168 |  | - | - |  | - | 2.168 |
| Aircrew Flight Equipment | A |  | - | - | - | - | - | 1.415 | - | - | 0.746 | - | - | 2.156 | - | - | - | - | - | 2.156 |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | - |  | - | 1.415 |  | - | 0.746 |  | - | 2.156 |  | - | - |  | - | 2.156 |
| Aircrew Laser Eye Protection (ALEP) | A |  | - | - | - | - | - | 0.000 | 0.001 | 4,600 | 4.600 | 0.001 | 4,900 | 4.900 | - | - | - | 0.001 | 4,900 | 4.900 |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | - |  | - | 0.000 |  | 4,600 | 4.600 |  | 4,900 | 4.900 |  | - | - |  | 4,900 | 4.900 |
| Personnel Locator Beacon | A |  | - | - | - | - | - | 0.400 | - | - | - | - | . | - | - | - | - | - | - | - |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | - |  | - | 0.400 |  | $\cdot$ | - |  | $\cdot$ | - |  | - | - |  | - |  |
| Night Vision Goggle Enduring Capability | A |  | - | - | - | - | - | 9.600 | - | - | 19.200 | - | - | 12.100 | - | - | - | - | - | 12.100 |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | - |  | - | 9.600 |  | - | 19.200 |  | - | 12.100 |  | - | - |  | - | 12.100 |
| Integrated Aircrew Ensemble | A |  | - | - | - | 0.061 | 320 | 19.520 | 0.061 | 131 | 7.991 | 0.063 | 5 | 0.315 | - | - | - | 0.063 | 5 | 0.315 |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | - |  | 320 | 19.520 |  | 131 | 7.991 |  | 5 | 0.315 |  | - | - |  | 5 | 0.315 |
| Ejection Seat Safety/ Sustainability Improvement Program | A |  | - | . | - | - | - | 0.000 | - | - | 5.100 | - | - | 1.100 | - | - | . | - | - | 1.100 |


|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Date: February 2020 <br> Aggregated Items Title: <br> Items Less Than \$5 Million |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3080F / 04 / 2 |  |  |  |  |  |  |  | P-1 Line Item Number / Title: <br> 842990 / Personal Safety and Rescue Equipment |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  | ior Yea |  | FY 2019 |  |  | FY 2020 |  |  | FY 2021 Base |  |  | FY 2021 OCO |  |  | FY 2021 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 <br> (\$M) | Unit Cost (\$ M) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | 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 <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) |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  |  | - |  | - | 0.000 |  | - | 5.100 |  | - | 1.100 |  | - | - |  | - | 1.100 |
| Next Generation Ejection Seat | A |  | - |  | - | - | - | 0.000 | - | - | 0.000 | - | - | 0.000 | - | - | - | - | - | 0.000 |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  |  | - |  | - | 0.000 |  | - | 0.000 |  | - | 0.000 |  | - | - |  | - | 0.000 |
| Air Force Reserve Equipment | A |  | - |  | 0.000 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Groundcrew Night Vision Goggles | A |  | - |  | 0.000 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Fusion Goggle Enhanced | A |  | - |  | 0.000 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Aircrew Night Vision Goggles | A |  | - |  | - | 0.010 | 50 | $50 \quad 0.493$ | 0.010 | 50 | 0.500 | 0.011 | 55 | 0.605 | - | - | - | 0.011 | 55 | 0.605 |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  |  | - |  | 35 | 35 0.345 |  | 35 | 0.350 |  | 38 | 0.418 |  | - | - |  | 38 | 0.418 |
| AFNG |  |  |  | - | - |  | 10 | 10.0 .099 |  | 10 | 0.100 |  | 12 | 0.132 |  | - | - |  | 12 | 0.132 |
| AFR |  |  |  |  | - |  |  | 50.049 |  | 5 | 0.050 |  | 5 | 0.055 |  | - | - |  | 5 | 0.055 |
| Test Set, TCTO Kit (ANV-126A-UGF | A |  | - |  | 0.000 | - | - | - - | - | - | - | - | - | - | - | - | - | - | - | - |
| Groundcrew Goggle (AN/PVS 31A) | A |  | - | - | - | - | - | 0.025 | - | - | 0.025 | - | - | 0.028 | - | - | - | - | - | 0.028 |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | - |  | - | 0.025 |  | - | 0.025 |  | - | 0.028 |  | - | - |  | - | 0.028 |
| PMA (NVG) Other Government Cost | A |  | - | - | - | - | - | 0.020 | - | - | 0.020 | - | - | 0.025 | - | - | - | - | - | 0.025 |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | - |  | - | 0.020 |  | - | 0.020 |  | $\cdot$ | 0.025 |  | - | - |  | - | 0.025 |
| Subtotal: Safety/Rescue/Aircrew Flight Equipment |  |  | - | - | . | - | . | 33.473 | - | . | 40.540 | - | . | 24.407 | - | - | - | - | - | 24.407 |
| Total |  |  |  |  | $\cdot$ |  | $\cdot$ | 52.277 |  |  | 46.839 | - | $\cdot$ | 26.909 | - | - | - | $\cdot$ | - | 26.909 |
| Note: Subtotals or Totals in this Exhibit P-40a may not be exact or sum exactly, due to rounding. <br> Remarks: <br> Items procured during execution may change based on critical equipment needed to support current Air Force mission requirements. |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |


| Exhibit P-40, Budget Line Item Justification: PB 2021 Air Force |  |  |  |  |  |  |  |  | Date: February 2020 |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: <br> 3080F: Other Procurement, Air Force / BA 04: Other Base Maintenance and Support Equip / BSA 3: Depot Plant+Mtrls Handling Eq |  |  |  |  | P-1 Line Item Number / Title: <br> 843040 / Power Conditioning Equipment |  |  |  |  |  |  |  |
| ID Code (A=Service Ready, B=Not Service Rea |  |  | 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 2019 | FY 2020 | $\begin{gathered} \text { FY } 2021 \\ \text { Base } \end{gathered}$ | $\begin{gathered} \hline \text { FY } 2021 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \text { FY } 2021 \\ \text { Total } \end{gathered}$ | FY 2022 | FY 2023 | FY 2024 | FY 2025 | To Complete | Total |
| Procurement Quantity (Units in Each) | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Cost (\$ in Milions) | - | 0.000 | 11.000 | 11.454 | - | 11.454 | 11.683 | 11.908 | 12.142 | 16.774 | - | 74.961 |
| Less PY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Net Procurement (P-1) (\$ in Millions) | - | 0.000 | 11.000 | 11.454 | - | 11.454 | 11.683 | 11.908 | 12.142 | 16.774 | - | 74.961 |
| Plus CY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Total Obligation Authority (\$ in Millions) | - | 0.000 | 11.000 | 11.454 | - | 11.454 | 11.683 | 11.908 | 12.142 | 16.774 | - | 74.961 |
| (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:

Description:
Power Conditioning \& Continuation Interfacing Equipment (PCCIE):
The PCCIE program Office procures, replaces and modernizes uninterruptible power supply (UPS) systems to meet Air Force requirements. The Uninterruptible Power Supply (UPS) systems protect sensitive electronic equipment/systems such as command and control centers, intelligence missions, radars, etc. Many of these systems have exceeded the life expectancy of 12-15 years. PCCIE program is structured into small projects (from 3-125 kilovolt amps (kva)) and large projects (greater than 125 kva ) and includes associated ancillary equipment.

| Exhibit P-40, Budget Line Item Justification: PB 2021 Air Force |  |  |  |  |  |  |  | Date: February 2020 |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: <br> 3080F: Other Procurement, Air Force / BA 04: Other Base Maintenance and Support Equip / BSA 3: Depot Plant+Mtrls Handling Eq |  |  |  |  |  | P-1 Line Item Number / Title: <br> 843040 / Power Conditioning Equipment |  |  |  |  |
| ID Cod | (A=Service Ready, B=Not Service R | 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 2019 | FY 2020 | FY 2021 Base | FY 2021 OCO | FY 2021 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 | Power Conditioning Equipment |  |  |  | 1 | - 10.000 | - $/ 11.000$ | - / 11.454 | 1 | - /11.454 |
| P-40 | Total Gross/Weapon System Cost |  |  |  | - 1 - | - 10.000 | - 111.000 | - / 11.454 | - 1- | - / 11.454 |


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

## Justification:

Justification:
Power Conditioning \& Continuation Interfacing Equipment (PCCIE):
PCCIE requirements transferred from 845010 to 843040 beginning for FY20.
PE 27510F - FY 20 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.

UNCLASSIFIED

| Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2021 Air Force |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Date: February 2020 <br> Aggregated Items Title: <br> Power Conditioning Equipment |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3080F / 04 / 3 |  |  |  |  |  |  |  | P-1 Line Item Number / Title: <br> 843040 / Power Conditioning Equipment |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  | ior Yea |  | FY 2019 |  |  | FY 2020 |  |  | FY 2021 Base |  |  | FY 2021 OCO |  |  | FY 2021 Total |  |  |
| Item Number / Title [DODIC] | $\begin{aligned} & \text { ID } \\ & \mathrm{CD} \end{aligned}$ | $\begin{array}{\|c} \text { MDAPII } \\ \text { MAIS } \\ \text { code } \\ \hline \end{array}$ | 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 <br> (\$ 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 <br> (\$ M) | Unit Cost (\$ M) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | $\begin{aligned} & \text { Total } \\ & \text { Cost } \end{aligned}$ $(\$ M)$ |
| Equipment |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Power Conditioning Equipment | A |  | - | - | - | - | - | 0.000 | - | - | 11.000 | - | - | 11.454 | - | - | - | - | - | 11.454 |
| Subtotal: Equipment |  |  | - | - | - | - | - | 0.000 | - | - | 11.000 | - | - | 11.454 | - | - | - | - | - | 11.454 |
| Total |  |  | $\cdot$ | - | - | $\cdot$ | - | 0.000 | - | - | 11.000 | - | - | 11.454 | - | - | - | - | - | 11.454 |

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Exhibit P-40, Budget Line Item Justification: PB 2021 Air Force
Date: February 2020

3080F: Other Procurement, Air Force / BA 04: Other Base Maintenance and Support Equip / BSA 3: Depot Plant+Mtrls Handling Eq

| 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 2019 | FY 2020 | $\text { FY } 2021$ <br> Base | $\begin{gathered} \text { FY } 2021 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \text { FY } 2021 \\ \text { Total } \end{gathered}$ | FY 2022 | FY 2023 | FY 2024 | FY 2025 | To Complete | Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Procurement Quantity (Units in Each) | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Cost (\$ in Millions) | - | 85.778 | 11.901 | 12.110 | - | 12.110 | 8.688 | 18.751 | 14.994 | 18.367 | - | 170.589 |
| Less PY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Net Procurement (P-1) (\$ in Millions) | - | 85.778 | 11.901 | 12.110 | - | 12.110 | 8.688 | 18.751 | 14.994 | 18.367 | - | 170.589 |
| Plus CY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Total Obligation Authority (\$ in Millions) | - | 85.778 | 11.901 | 12.110 | - | 12.110 | 8.688 | 18.751 | 14.994 | 18.367 | - | 170.589 |
| (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 Mechanized Materials Handling Equipment (MMHE) line provides funding for Mechanized Materials Handling Systems (MMHS) and Storage Aids Systems (SAS).
 mechanized and non-mechanized materials handling systems to modernize and enhance supply operations, aircraft maintenance, and air transportation.

Most MMHE is one of the following equipment types:

- Material Storage and Distribution Systems which are mechanized systems to receive, store, and ship material in a warehouse or aircraft hangar.


- External Aircraft Fuel Tank Storage Systems which are used to store and access external aircraft fuel tanks.
- Storage Aids Systems which consist of non-mechanized equipment including racks, shelving, modular cabinets, mezzanines and mobile aisle systems.

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

Funding for this exhibit is contained in PE 0207510F, 0207597F, 0502834F, and 0502844F.

| Secondary Distribution |  | FY 2019 | FY 2020 | FY 2021 <br> Base | $\begin{gathered} \text { FY } 2021 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \text { FY } 2021 \\ \text { Total } \end{gathered}$ | FY 2022 | FY 2023 | FY 2024 | FY 2025 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| AF | Quantity | 33 | 26 | 24 | 0 | 24 | - | - | - | - |

## UNCLASSIFIED

| Exhibit P-40, Budget Line Item Justification: PB 2021 Air Force |  |  |  |  |  |  |  | Date: February 2020 |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: <br> 3080F: Other Procurement, Air Force / BA 04: Other Base Maintenance and <br> Support Equip / BSA 3: Depot Plant+Mtrls Handling Eq |  |  |  |  | P-1 Line Item Number / Title: <br> 843050 / Mechanized Material Handling Equip |  |  |  |  |  |
| ID Code (A=Service Ready, | 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 |  |  |  |  |  |  |  |  |  |  |
| Secondary Distribution |  | FY 2019 | FY 2020 | $\begin{aligned} & \text { FY } 2021 \\ & \text { Base } \end{aligned}$ | $\begin{aligned} & \text { FY } 2021 \\ & \text { OCO } \end{aligned}$ | $\begin{gathered} \text { FY } 2021 \\ \text { Total } \end{gathered}$ | FY 2022 | FY 2023 | FY 2024 | FY 2025 |
|  | Total Obligation Authority | 84.378 | 9.461 | 9.348 | 0.000 | 9.348 | - | - | - | - |
| AFNG | Quantity | 4 | 3 | 4 | 0 | 4 | - | - | - | - |
|  | Total Obligation Authority | 1.400 | 1.190 | 1.075 | 0.000 | 1.075 | - | - | - | - |
| AFR | Quantity | 0 | 2 | 3 | 0 | 3 | - | - | - | - |
|  | Total Obligation Authority | 0.000 | 1.250 | 1.700 | 0.000 | 1.700 | - | - | - | - |
| Total: <br> Secondary Distribution | Quantity | 37 | 31 | 31 | 0 | 31 | - | - | - | - |
|  | Total Obligation Authority | 85.778 | 11.901 | 12.123 | 0.000 | 12.123 | - | - | - | - |


| Exhibit P-40, Budget Line Item Justification: PB 2021 Air Force |  |  |  |  |  |  |  | Date: February 2020 |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: <br> 3080F: Other Procurement, Air Force / BA 04: Other Base Maintenance and Support Equip / BSA 3: Depot Plant+Mtrls Handling Eq |  |  |  |  |  | P-1 Line Item Number / Title: <br> 843050 / Mechanized Material Handling Equip |  |  |  |  |
| ID Code (A=Service Ready, B=Not Service Ready): A ${ }^{\text {A }}$ Pr |  | 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 2019 | FY 2020 | FY 2021 Base | FY 2021 OCO | FY 2021 Total |
| $\begin{aligned} & \text { Exhibit } \\ & \text { Type } \end{aligned}$ | Title* | Subexhibits | ID | $\begin{aligned} & \hline \text { MDAPI } \\ & \text { MAIS } \\ & \text { Code } \end{aligned}$ | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) |
| P-40a | Mechanized Material Handling Equip |  |  |  | - 1- | - 185.778 | - /11.901 | - /12.123 | - 1 - | - /12.123 |
| P-40 | Total Gross/Weapon System Cost |  |  |  | - 1. | - 185.778 | 111.901 | - 112.110 | -1. | 112.110 |
| ${ }^{*}$ 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. Title represents the P-40a Title when only the P-40a Summary/Total is shown. |  |  |  |  |  |  |  |  |  |  |
| Note: Totals in this Exhibit P-40 set may not be exact or sum exactly due to rounding. |  |  |  |  |  |  |  |  |  |  |
| Justification: <br>  <br>  maintenance, and transportation facilities. Aerial port MMHE is vital to maintain and enhance rapid deployment and sustainment capabilities. <br> FY21 MMHE is to be purchased in the following quantities: 6 material storage and distribution systems, 19 storage aid systems, and 6 aerial port equipment systems. |  |  |  |  |  |  |  |  |  |  |


| Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2021 Air Force $\quad$ D |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Date: February 2020 |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3080F / 04 / 3 |  |  |  |  |  |  |  | P-1 Line Item Number / Title: <br> 843050 / Mechanized Material Handling Equip |  |  |  |  |  |  |  | Aggregated Items Title: Mechanized Material Handling Equip |  |  |  |  |
|  |  |  | Prior Years |  |  | FY 2019 |  |  | FY 2020 |  |  | FY 2021 Base |  |  | FY 2021 OCO |  |  | FY 2021 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 <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) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | $\begin{aligned} & \text { Total } \\ & \text { Cost } \\ & (\$ M) \\ & \hline \end{aligned}$ | Unit Cost (\$ M) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | Total Cost <br> (\$ M) | Unit Cost (\$ 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) |
| MECHANIZED MATERIALS HANDLING EQUIPMENT |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| MATERIAL <br> STORAGE AND DISTRIBUTION SYSTEMS | A |  | - | - | - | 0.436 | 14 | 4.6 .098 | 0.480 | 13 | 6.237 | 0.450 | 6 | 2.700 | - | - | - | 0.450 | 6 | 2.700 |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | - |  | 13 | 3 3.598 |  | 10 | 4.397 |  | 3 | 1.125 |  | - | - |  | 3 | 1.125 |
| AFNG |  |  |  | - | - |  |  | 1.0 .500 |  | 2 | 0.940 |  | 2 | 0.775 |  | - | - |  | 2 | 0.775 |
| AFR |  |  |  | - | - |  | - | - |  | 1 | 0.900 |  | 1 | 0.800 |  | - | - |  | 1 | 0.800 |
| STORAGE AIDS SYSTEMS | A |  | - | - | - | 0.235 | 16 | 6 3.756 | 0.292 | 16 | 4.664 | 0.257 | 19 | 4.883 | . | - | - | 0.257 | 19 | 4.883 |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | - |  | 14 | 4 3.156 |  | 14 | 4.064 |  | 17 | 4.583 |  | - | - |  | 17 | 4.583 |
| AFNG |  |  |  | - | - |  |  | 20.600 |  | 1 | 0.250 |  | 2 | 0.300 |  | - | - |  | 2 | 0.300 |
| AFR |  |  |  | - | - |  | - | - |  | 1 | 0.350 |  | - | - |  | - | - |  | - | - |
| AERIAL PORT EQUIPMENT | A |  | - | - | - | 6.222 |  | $6 \quad 37.334$ | 0.500 | 2 | 1.000 | 0.757 | 6 | 4.540 | - | - | - | 0.757 | 6 | 4.540 |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | - |  |  | 5 37.034 |  | 2 | 1.000 |  | 4 | 3.640 |  | - | - |  | 4 | 3.640 |
| AFNG |  |  |  | - | - |  |  | $1{ }^{1} 0.300$ |  | - | - |  | - | - |  | - | - |  | - | - |
| AFR |  |  |  | - | - |  | - | - |  | - | - |  | 2 | 0.900 |  | - | - |  | 2 | 0.900 |
| MATERIALS HANDLING EQUIPMENT FOR VC-25B MULTI-BAY HANGAR COMPLEX | A |  | - | - | . | 38.590 |  | 138.590 | - | . | . | - | - | - | - | . | - | - | - | . |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | - |  |  | $1{ }^{1} 38.590$ |  | - | - |  | - | - |  | - | - |  | - | - |
| EXTERNAL AIRCRAFT WING TANK STORAGE SYSTEM | A |  | - | . | 0.000 | - | - | - | - | . | . | - | . | - | - | - | - | - | . | - |
| NUCLEAR WEAPONS SUSTAINMENT | A |  | - | - | 0.000 | - | - | - | - | - | - | - | - | - | - | - |  | - | - | - |
| Subtotal: MECHANIZED MATERIALS HANDLING EQUIPMENT |  |  | - | - | - | - | - | 85.778 | - | - | 11.901 | - | - | 12.123 | - | - | - | - | - | 12.123 |
| Total |  |  | - | - | - | - | - | 85.778 | - | - | 11.901 | - | - | 12.123 | - | - | - | - | - | 12.123 |

Exhibit P-40, Budget Line Item Justification: PB 2021 Air Force
Date: February 2020

## P-1 Line Item Number / Title:

845010 / Base Procured Equipment

## 3080F: Other Procurement, Air Force / BA 04: Other Base Maintenance and

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

| Resource Summary | Prior <br> Years | FY 2019 | FY 2020 | $\text { FY } 2021$ Base | $\begin{gathered} \text { FY } 2021 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \text { FY } 2021 \\ \text { Total } \end{gathered}$ | FY 2022 | FY 2023 | FY 2024 | FY 2025 | To Complete | Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Procurement Quantity (Units in Each) | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Cost (\$ in Millions) | - | 46.162 | 48.463 | 21.142 | 0.000 | 21.142 | 19.090 | 11.452 | 10.780 | 10.973 | - | 168.062 |
| Less PY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Net Procurement (P-1) (\$ in Millions) | - | 46.162 | 48.463 | 21.142 | 0.000 | 21.142 | 19.090 | 11.452 | 10.780 | 10.973 | - | 168.062 |
| Plus CY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Total Obligation Authority (\$ in Millions) | - | 46.162 | 48.463 | 21.142 | 0.000 | 21.142 | 19.090 | 11.452 | 10.780 | 10.973 | - | 168.062 |
| (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:

Base Procured Equipment:
Organizations throughout the Air Force acquire authorized investment equipment from the General Services Administration, Defense Logistics Agency, and commercial sources when these items exceed $\$ 250,000$ in cost or are unavailable through Air Force central procurement. Examples of equipment in this $\mathrm{P}-1$ line typically include equipment and/or specialized tools for road and ground maintenance; vehicle maintenance; vehicle corrosion control; civil engineering maintenance; electrical and carpentry shops; specialized laboratories; kitchen and dining facilities; printing plants; microfilm, graphics support facilities; training ranges; uninterruptible power supply systems, physiological trainers to include, but are not limited to Barney Chairs, Altitude Chambers, Spatial Disorientation Trainers, Hypoxia Familiarization Trainers and Part Task Trainers, Reduced Oxygen Breathing Devices, Terrain Boards, Parachuting Trainers, Aircrew Exercise Equipment.

| Secondary Distribution |  | FY 2019 | FY 2020 | $\begin{gathered} \text { FY } 2021 \\ \text { Base } \end{gathered}$ | $\begin{gathered} \text { FY } 2021 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \text { FY } 2021 \\ \text { Total } \end{gathered}$ | FY 2022 | FY 2023 | FY 2024 | FY 2025 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| AF | Quantity | 1 | 1 | 0 | 0 | 0 | - | - | - | - |
|  | Total Obligation Authority | 45.197 | 48.463 | 21.142 | 0.000 | 21.142 | - | - | - | - |
| AFNG | Quantity | 0 | 0 | 0 | 0 | 0 | - | - | - | - |
|  | Total Obligation Authority | 0.860 | 0.000 | 0.000 | 0.000 | 0.000 | - | - | - | - |
| AFR | Quantity | 0 | 0 | 0 | 0 | 0 | - | - | - | - |
|  | Total Obligation Authority | 0.105 | 0.000 | 0.000 | 0.000 | 0.000 | - | - | - | - |
| Total: <br> Secondary Distribution | Quantity | 1 | 1 | 0 | 0 | 0 | - | - | - | - |
|  | Total Obligation Authority | 46.162 | 48.463 | 21.142 | 0.000 | 21.142 | - | - | - | - |

Appropriation / Budget Activity / Budget Sub Activity:
3080F: Other Procurement, Air Force / BA 04: Other Base Maintenance and
Support Equip / BSA 5: Base Support Equipment

## P-1 Line Item Number / Title:

845010 / Base Procured 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 |  |  |  |  |  |  |  |  |  |  |
| Exhibits Schedule |  |  |  |  | Prior Years | FY 2019 | FY 2020 | FY 2021 Base | FY 2021 OCO | FY 2021 Total |
| $\begin{aligned} & \text { Exhibit } \\ & \text { Type } \end{aligned}$ | 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 | Base Procured Equipment |  |  |  | - 1 - | - /46.162 | - /48.463 | - 121.142 | - 1 - | - $/ 21.142$ |
| P-40 | Total Gross/Weapon System Cost |  |  |  | - 1 - | - 146.162 | - / 48.463 | - 121.142 | - 10.000 | - $/ 21.142$ |

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

## Justification:

This program, Category Uncategorized Item AIR COMBAT COMMAND, is a new start.
This program, Category Uncategorized Item GLOBAL STRIKE COMMAND, is a new start.
Base Procured Equipment:
Air Force Global Strike FY21 funds are to purchase Front End Loaders (FEL) for snow removal at Minot MAFs and to purchase replacement UPS units for aging UPS supporting ICBM ops.
 Environmental Control Units and ancillary equipment which can be deployed worldwide to support F-35 aircraft deployments.

 creates a potential risk to them washing up on public beaches.

 697-7987. This is a new start.
 on the parking ramp. This is a new start.

PE 84752F - \$0.698M



 Microscope System, Pioneer Power-Bot AGV Robot, GPS Receivers, IMU and accessories, Dual-Output Programmable Power Supplies, and Scanning Electron Microscope.

## UNCLASSIFIED

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Date: February 2020 <br> Aggregated Items Title: <br> Base Procured Equipment |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3080F / 04 / 5 |  |  |  |  |  |  |  | P-1 Line Item Number / Title: 845010 / Base Procured Equipment |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  | ior Years |  | FY 2019 |  |  | FY 2020 |  |  | FY 2021 Base |  |  | FY 2021 OCO |  |  | FY 2021 Total |  |  |
| Item Number / Title [DODIC] | $\begin{aligned} & \mathrm{ID} \\ & \mathrm{CD} \end{aligned}$ | $\begin{gathered} \text { MDAPI } \\ \text { MAIS } \\ \text { code } \end{gathered}$ | 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 <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 <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 (\$ M) |
| Uncategorized |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| BASE PROCURED EQUIPMENT | A |  | - | - | - | 28.800 |  | 128.800 | 24.500 |  | 24.500 | - | - | - | - | - | - | - | - | - |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  |  | - |  |  | $1{ }^{1} 28.800$ |  | 1 | 24.500 |  | - | - |  | - | - |  | - | - |
| TACTICAL DECEPTION | A |  | - |  | - | - |  | - . | - | - | 2.978 | - | - | 7.930 | - | - | - | - | - | 7.930 |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  |  | - |  |  | - - |  | - | 2.978 |  | - | 7.930 |  | - | - |  | - | 7.930 |
| AIR EDUCATION \& TRAINING CMD | A |  | - |  | - | - |  | 7.555 | - | - | 8.985 | - | - | 6.063 | - | - | - | - | - | 6.063 |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | - |  | - | 7.555 |  | - | 8.985 |  | - | 6.063 |  | - | - |  | - | 6.063 |
| AIR COMBAT COMMAND | A |  | - | - | - | - | - | 2.436 | - | - | - | - | - | 4.402 | - | - | - | - | - | 4.402 |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | - |  | - | 2.436 |  | - | - |  | - | 4.402 |  | - | - |  | - | 4.402 |
| GLOBAL STRIKE COMMAND | A |  | - | - | - | - | - | - - | - | - | - | - | - | 2.747 | - | - | - | - | - | 2.747 |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | - |  | - | - - |  | - | - |  | - | 2.747 |  | - | - |  | - | 2.747 |
| US AIR FORCES EUROPE | A |  | - | - | - | - | - | 0.558 | - | - | 12.000 | - | - | 0.000 | - | - | - | - | - | 0.000 |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | - |  | - | 0.558 |  | - | 12.000 |  | - | 0.000 |  | - | - |  | - | 0.000 |
| PCCIE | A |  | - | - | - | - | - | 5.758 | - | - | - | - | - | - | - | - | - | - | - | - |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | - |  | - | 5.758 |  | - | - |  | - | - |  | - | - |  | - | - |
| PCCIE PMA | A |  | - | - | - | - | - | 0.090 | - | - | - | - | - | - | - | - | - | - | - | - |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | - |  | - | 0.090 |  | - | - |  | - | - |  | - | - |  | - | - |
| PCCIE ANG/RES | A |  | - | - | - | - | - | 0.965 | - | - | - | - | - | - | - | - | - | - | - | - |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AFNG |  |  |  | - | - |  | - | 0.860 |  | - | - |  | - | - |  | - | - |  | - | - |
| AFR |  |  |  | - | - |  | - | 0.105 |  | - | - |  | - | - |  | - | - |  | - | - |
| Subtotal: Uncategorized |  |  | - | - | - | - | - | 46.162 | - | - | 48.463 | - | - | 21.142 | - | - | - | - | - | 21.142 |
| Total |  |  | - | - | - | - | - | 46.162 | - | - | 48.463 | - | - | 21.142 | - | - | - | - | - | 21.142 |
| Note: Subtotals or Totals in this Exhibit P-40a may not be exact or sum exactly, due to rounding. <br> Remarks: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |


| Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2021 Air Force | Date: February 2020 |  |
| :--- | :--- | :--- |
| Appropriation / Budget Activity / Budget Sub Activity: <br> 3080F / 04 / 5 | P-1 Line Item Number / Title: <br> $845010 /$ Base Procured Equipment | Aggregated Items Title: <br> Base Procured Equipment |
| 1) PCCIE PMA - FY18 funding will support Program Office Management efforts including computer support, travel, A\&AS and cost estimating/analysis services |  |  |

1) PCCIE PMA - FY18 funding will support Program Office Management efforts including computer support, travel, A\&AS and cost estimating/analysis services

Exhibit P-40, Budget Line Item Justification: PB 2021 Air Force
Date: February 2020

## Appropriation / Budget Activity / Budget Sub Activity:

3080F: Other Procurement, Air Force / BA 04: Other Base Maintenance and Support Equip / BSA 5: Base Support Equipment

| ID Code (A=Service Ready, B=Not Service Ready): A |  |  | Program Elements for Code B Items: N/A |  |  |  |  | Other Related Program Elements: 0205671F |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Line Item MDAP/MAIS Code: N/A |  |  |  |  |  |  |  |  |  |  |  |  |
| Resource Summary | Prior <br> Years | FY 2019 | FY 2020 | $\text { FY } 2021$ Base | $\text { FY } 2021$ | $\begin{gathered} \text { FY } 2021 \\ \text { Total } \end{gathered}$ | FY 2022 | FY 2023 | FY 2024 | FY 2025 | To Complete | Total |
| Procurement Quantity (Units in Each) | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Cost (\$ in Millions) | - | 136.135 | 34.124 | 7.700 | 13.172 | 20.872 | 89.629 | 183.841 | 204.152 | 199.345 | - | 868.098 |
| Less PY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Net Procurement (P-1) (\$ in Millions) | - | 136.135 | 34.124 | 7.700 | 13.172 | 20.872 | 89.629 | 183.841 | 204.152 | 199.345 | - | 868.098 |
| Plus CY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Total Obligation Authority (\$ in Millions) | - | 136.135 | 34.124 | 7.700 | 13.172 | 20.872 | 89.629 | 183.841 | 204.152 | 199.345 | - | 868.098 |
| (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:

 team's equipment requirements in countering explosive threats in garrison and deployed locations.
 for Emergency Management, and AFRAT.

 downrange.
 supporting USCENTCOM training and operations to replace legacy communications systems that are antiquated and no longer sustainable.

Exhibit P-40, Budget Line Item Justification: PB 2021 Air Force
Date: February 2020

## Appropriation / Budget Activity / Budget Sub Activity: <br> 3080F: Other Procurement, Air Force / BA 04: Other Base Maintenance and

 Support Equip / BSA 5: Base Support Equipment| ID Code (A=Service Ready, B=Not Service Ready): A |  | Program Elements for Code B Items: N/A |  |  |  |  | Other Related Program Elements: 0205671F |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Line Item MDAP/MAIS Code: N/A |  |  |  |  |  |  |  |  |  |  |
| Exhibits Schedule |  |  |  |  | Prior Years | FY 2019 | FY 2020 | FY 2021 Base | FY 2021 OCO | FY 2021 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 | Engineering and EOD Equipment |  |  |  | 1 | - / 136.135 | - $/ 34.124$ | - 17.700 | - /13.172 | 120.872 |
| P-40 | Total Gross/Weapon System Cost |  |  |  | 1 - | - / 136.135 | - 134.124 | - 17.700 | - 113.172 | - 120.872 |

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

## Justification:



 (RDS) and Radio-Isotope Identification Devices (RIID) for Emergency Management, and AFRAT.

 safe tools designed to remotely mitigate unexploded explosive ordnance
 following quantities: $\$ 244.5 \mathrm{~K}$ procures 30 each Harris Falcon III Radios with COMSEC; $\$ 517.5 \mathrm{~K}$ procures 2 each Harris AN/PRC-117G TOC Systems.

Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2021 Air Force

| Appropriation / Budget Activity / Budget Sub Activity: <br> $3080 \mathrm{~F} / 04$ / 5 |
| :--- |


| Item Number / <br> Title [DODIC] | $\begin{aligned} & \text { ID } \\ & C D \end{aligned}$ | MDAP <br> MAIS <br> Code | Prior Years |  |  | FY 2019 |  |  | FY 2020 |  |  | FY 2021 Base |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | 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 <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) |

Date: February 2020

## Aggregated Items Title:

Engineering and EOD Equipment


| CVRJ CREW Refurbishment | A | - | - | 0.000 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |

JCREW Dismo
Systems JCREW Mounted Systems JCREW Fixed Site
Systems Systems JCREW Vehicle
Integration Kits

| Integration Kits |
| :--- |
| CREW Universal Test |
| Sets | Sets FRS (EO RAY) Vessel

Base Support Emergency Response Transport
Fuze Disassembly System, Explosive Ordnance Disposal Light Tactical Trailers EOD-M Program
Ordance Locator EOD Next Gen XRays Rays Detection Systems (RDS)
EOD-M Diarming Toolsets (Safe Tool) EOD Robotics EOD-L Robotics EOD-M Mini Remote Firing Device
Rapid Airfield Damage
Assessment Systems
(Spiral 1)
RECOVERY REPAIR
KIT (Training/Small
Sized)

UNCLASSIFIED

| Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2021 Air Force |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Date: February 2020 |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $\begin{aligned} & \text { Appropriation / Budget Activity / Budget Sub Activity: } \\ & 3080 \mathrm{~F} / 04 \text { / } 5 \end{aligned}$ |  |  |  |  |  |  |  | P-1 Line Item Number / Title: <br> 845100 / Engineering and EOD Equipment |  |  |  |  |  |  |  | Aggregated Items Title: <br> Engineering and EOD Equipment |  |  |  |  |
|  | $\begin{aligned} & \mathrm{ID} \\ & \mathrm{CD} \end{aligned}$ | MDAP/ MAIS <br> Code | Prior Years |  |  | FY 2019 |  |  | FY 2020 |  |  | FY 2021 Base |  |  | FY 2021 OCO |  |  | FY 2021 Total |  |  |
| Item Number / <br> Title [DODIC] |  |  | 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) | Unit Cost (\$ M) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost (\$ M) |
| CBRN Radiological Detection Systems (RDS) | A |  | - | - | - | - | - | - | - | - | - | 0.012 | 250 | 2.997 | - | - | - | 0.012 | 250 | 2.997 |
| RECOVERY REPAIR <br> KIT - R1 (Medium <br> Sized Kit) | A |  | - | - | - | 2.407 | 1 | 2.407 | 2.154 | 1 | 2.154 | - | - | - | - | - | - | - | - | - |
| RECOVERY REPAIR KIT - R2 (Large Size Kit) | A |  | - | - | 0.000 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| RECOVERY REPAIR <br> KIT - R3 (Very Large <br> Size Kit) | A |  | - | - | 0.000 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| RADBO Equipment, Integration, \& Spares Kits | A |  | - | - | 0.000 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Support Agadez Infrastructure IT Service Mgmt Services | A |  | - | - | 0.000 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Tactical <br> Communication <br> Packages (Harris Equipment) | A |  | - | - | - | - | - | - | - | - | - | - | - | - | 0.024 | 32 | 0.762 | 0.024 | 32 | 0.762 |
| ROWPU, 1500gph | A |  | - | - | 0.000 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| RED HORSE EDI Equipment \& Vehicles | A |  | - | - | 0.000 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| LAMS-V | A |  | - | - | - | - | - | 36.412 | - | - | - | - | - | - | - | - | - | - | - | - |
| EALS Kit | A |  | - | - | 0.000 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| ESAP Type I Shelters | A |  | - | - | - | 3.000 | 5 | 15.000 | 3.000 | 4 | 12.000 | - | - | - | - | - | - | - | - | - |
| ESAP Type II Shelters | A |  | - | - | - | 1.950 | 5 | 9.750 | - | - | 0.000 | - | - | - | - | - | - | - | - | - |
| ESAP Shelter Support | A |  | - | - | - | 2.543 | 1 | 2.543 | 2.752 | 1 | 2.752 | - | - | - | - | - | - | - | - | - |
| CROWS <br> Containerized Weapons Station | A |  | - | - | - | 0.825 | 40 | 33.018 | - | - | - | - | - | - | - | - | - | - | - | - |
| CROWS Mobilized Platform | A |  | - | - | - | 0.418 | 49 | 20.482 | - | - | - | - | - | - | - | - | - | - | - | - |
| Subtotal: Uncategorized |  |  | - | - | - | - | - | 136.135 | - | - | 34.124 | - | - | 7.700 | - | - | 13.172 | - | - | 20.872 |
| Total |  |  | - | - | $\cdot$ | - | - | 136.135 | - | - | 34.124 | - | - | 7.700 | - | - | 13.172 | - | - | 20.872 |

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

| Appropriation / Budget Activity / Budget Sub Activity: |
| :--- |
| 3080F: Other Procurement, Air Force / BA 04: Other Base Maintenance and |
| Support Equip / BSA 5: Base Support Equipment |

## P-1 Line Item Number / Title:

845420 / Mobility 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 2019 | FY 2020 | $\begin{gathered} \text { FY } 2021 \\ \text { Base } \end{gathered}$ | $\begin{gathered} \text { FY } 2021 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \text { FY } 2021 \\ \text { Total } \end{gathered}$ | FY 2022 | FY 2023 | FY 2024 | FY 2025 | To Complete | Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Procurement Quantity (Units in Each) | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Cost (\$ in Millions) | - | 87.735 | 52.974 | 18.266 | 33.694 | 51.960 | 49.245 | 44.449 | 77.264 | 84.739 | - | 448.366 |
| Less PY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Net Procurement (P-1) (\$ in Millions) | - | 87.735 | 52.974 | 18.266 | 33.694 | 51.960 | 49.245 | 44.449 | 77.264 | 84.739 | - | 448.366 |
| Plus CY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Total Obligation Authority (\$ in Millions) | - | 87.735 | 52.974 | 18.266 | 33.694 | 51.960 | 49.245 | 44.449 | 77.264 | 84.739 | - | 448.366 |
| (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 Dollars) | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Unit Cost (\$ in Dollars) | - | - | - | - | - | - | - | - | - | - | - | - |

## Description:



 provide combatant commanders with initial capabilities and materiel until establishment of a mature and sustained Strategic/Theater Distribution Network (TDP). (CJSCI 4310.01D)




 Pacific Stability and European Defense Initiatives can be executed.
The AF continues to modernize major BEAR components to replace obsolete and inefficient items (e.g., Power Generation, Hygiene, Refrigeration, EALS, MAAS, Shelters, and Feeding):

 and other components such as fluid control valves.


 via the Primary Distribution Panels (PDP).



## Appropriation / Budget Activity / Budget Sub Activity:

3080F: Other Procurement, Air Force / BA 04: Other Base Maintenance and

## P-1 Line Item Number / Title:

 Support Equip / BSA 5: Base Support Equipment

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

 replaced with a Next Generation System over the FYDP.


 Shelter Flies, Shelter Flooring/matting for various shelter sizes, Shelter liners.

 deployable mobility packages and other contingencies in all theaters of operation.

Heating, Ventilating, and Air Conditioning (HVAC): provide thermal comfort and acceptable indoor air quality.
Environmental Control Unit (ECU): Heat Pump to provide cooling, heating via reversing valve (heat pump) and supplemental heat via resistance heat strips.
Training/Multi-Media Training - Provides BEAR and items for all training sites and funds for all required BEAR multi-media training requirements.
 the 24 Deployable Air Base Systems (DABS) needed to "Set the Theatre"
 to fill the 24 Deployable Air Base Systems (DABS) needed to "Set the Theatre
 Deployable Air Base Systems (DABS) needed to "Set the Theatre
"Fiscal Year" (FY) 2021 BEAR Baseline funding reduced by $\$ 7.7$ Million
"Fiscal Year (FY) 2018 BEAR received a funding plus-up of $\$ 36 \mathrm{M}$ dollars to address equipment disconnects to support emergent warfighter readiness requirements in the Pacific Theatre.
Fiscal Year (FY) 2018 BEAR received a Congressional Mark in the amount of \$5M dollars (Feeding Earmark) to replace aging Legacy 9-2 kitchen systems.
Program element associated with this P-1 Line is: 0401135F.

| Exhibit P-40, Budget Line Item Justification: PB 2021 Air Force |  |  |  |  |  |  |  | Date: February 2020 |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: <br> 3080F: Other Procurement, Air Force / BA 04: Other Base Maintenance and Support Equip / BSA 5: Base Support Equipment |  |  |  |  |  | P-1 Line Item Number / Title: 845420 / Mobility Equipment |  |  |  |  |
| ID Cod | (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 2019 | FY 2020 | FY 2021 Base | FY 2021 OCO | FY 2021 Total |
| Exhibit Type | Title* | Subexhibits | $\begin{array}{\|l\|l\|} \hline \text { ID } \\ \text { CD } \\ \hline \end{array}$ | MDAP/ MAIS Code | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) | Quantity / Total Cost (Each) I (\$ M) |
| P-40a | Mobility Equipment |  |  |  | - 1- | - 187.735 | - 152.974 | - /18.266 | - 133.694 | - 151.960 |
| P-40 | Total Gross/Weapon System Cost |  |  |  | - 1 - | - 187.735 | - 152.974 | - /18.266 | - 133.694 | - 151.960 |


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

## Justification:

FY 2021 procurement dollars in the amount of $\$ 51.960 \mathrm{M}$ will procure equipment in support of, but not limited to, the European Contingency Air Operations Set (ECAOS), Deployable Air Base
 support installation and unit mission requirements for Air Force personnel.

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Exhibit P-40, Budget Line Item Justification: PB 2021 Air Force
Date: February 2020

## P-1 Line Item Number / Title:

845550 / Fuels Support Equipment (FSE) 3080F: Other Procurement, Air Force / BA
Support Equip / BSA 5: Base Support Equipment

|  |  |  |
| :---: | :---: | :---: |

Line Item MDAP/MAIS Code: N/A

| Resource Summary | Prior <br> Years | FY 2019 | FY 2020 | $\text { FY } 2021$ Base | $\begin{gathered} \text { FY } 2021 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \text { FY } 2021 \\ \text { Total } \end{gathered}$ | FY 2022 | FY 2023 | FY 2024 | FY 2025 | To Complete | Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Procurement Quantity (Units in Each) | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Cost (\$ in Millions) | - | 0.000 | 28.295 | 9.601 | 1.777 | 11.378 | 11.275 | 9.656 | 9.807 | 9.987 | - | 80.398 |
| Less PY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Net Procurement (P-1) (\$ in Millions) | - | 0.000 | 28.295 | 9.601 | 1.777 | 11.378 | 11.275 | 9.656 | 9.807 | 9.987 | - | 80.398 |
| Plus CY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Total Obligation Authority (\$ in Millions) | - | 0.000 | 28.295 | 9.601 | 1.777 | 11.378 | 11.275 | 9.656 | 9.807 | 9.987 | - | 80.398 |
| (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:




 be executed.



 constant pressure, flow-on demand fueling system for aircraft, i.e., a hydrant-type fueling system.
 behind enemy lines. It is the key component to the AFSOC community and their ability to complete Forward Area Refueling Point missions(FARP).
 ability to transfer fuel from the aircraft storage bladder while aircraft engines are running.

 are used with Fuels Operational Readiness Capability Equipment (FORCE) to support various aircraft systems at forward operating locations.
 capacity and is used to fill smaller cryogenic equipment (8 Cylinder trailers, 50 Gallon LOX Tank) and aircraft.

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P-1 Line \#57
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| Exhibit P-40, Budget Line Item Justification: PB 2021 Air Force |  |  |  |  | Date: February 2020 |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: <br> 3080F: Other Procurement, Air Force / BA 04: Other Base Maintenance and Support Equip / BSA 5: Base Support Equipment |  |  | P-1 Line Item Number / Title: <br> 845550 / Fuels Support Equipment (FSE) |  |  |
|  | ID Code (A=Service Ready, B=Not Service Ready): A ${ }^{\text {a }}$ Pr |  |  |  |  |
| Line Item MDAP/MAIS Code: N/A |  |  |  |  |  |
| Fuels Pumping \& Distribution provides multiple capabilities to receive and deliver petroleum products to initiate and sustain ground and air operations for both expeditionary and contingency operations. Ensures the ability to service smaller aircraft such as UAV's and base support vehicles, and increases the distance that fuel loads can be safely distributed to the base up to 3 miles. <br> "Fiscal Year (FY) 2018 FORCE received its first distribution of OCO funds to support the European Defense Initiative": $\$ 28.032$ million was received to start the procurement of FORCE commodities required to fill the 24 Deployable Air Base Systems (DABS) needed to "Set the Theatre" <br> "Fiscal Year" (FY) 2019 FORCE received its second distribution of OCO funds to support the European Defense Initiative": $\$ 18,755$ million was received to continue the procurement of FORCE commodities required to fill the 24 Deployable Air Base Systems (DABS) needed to "Set the Theatre <br> "Fiscal Year" (FY) 2020 European Defense Initiative" Funding was transitioned from OCO to Baseline (EDI): $\$ 4.0$ million was received to continue the procurement of FORCE commodities required to fill the 24 Deployable Air Base Systems (DABS) needed to "Set the Theatre <br> "Fiscal Year" (FY) 2021 FORCE Baseline funding was reduced by $\$ 4.84$ Million <br> Previous Fuels requirements were levied under BPAC 845990 / Base Maintenance and Support Equipment, starting in FY20 all FORCE requirements fall under BPAC 845550. <br> Funding for this exhibit contained in PE 028031F. |  |  |  |  |  |


| Exhibit P-40, Budget Line Item Justification: PB 2021 Air Force |  |  |  |  |  |  |  | Date: February 2020 |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: <br> 3080F: Other Procurement, Air Force / BA 04: Other Base Maintenance and Support Equip / BSA 5: Base Support Equipment |  |  |  |  |  | P-1 Line Item Number / Title: <br> 845550 / Fuels Support Equipment (FSE) |  |  |  |  |
| ID Cod | (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 2019 | FY 2020 | FY 2021 Base | FY 2021 OCO | FY 2021 Total |
| Exhibit Type | Title* | Subexhibits | $\begin{array}{\|l\|} \hline \text { ID } \\ \text { CD } \\ \hline \end{array}$ | 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-40a | Fuels Support Equipment (FSE) |  |  |  | - 1 - | - 10.000 | - 128.295 | - 19.601 | - 11.777 | - /11.378 |
| P-40 | Total Gross/Weapon System Cost |  |  |  | - 1 - | - 10.000 | - 128.295 | - 19.601 | - 11.777 | - / 11.378 |


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

## Justification:


 and other government associated costs in support installation and unit mission requirements for Air Force personnel.

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| Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2021 Air Force |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Date: February 2020 |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity:$\text { 3080F / } 04 \text { / } 5$ |  |  |  |  |  |  |  | P-1 Line Item Number / Title: 845550 / Fuels Support Equipment (FSE) |  |  |  |  |  |  |  | Aggregated Items Title: <br> Fuels Support Equipment (FSE) |  |  |  |  |
|  | $\begin{aligned} & \text { ID } \\ & \text { CD } \end{aligned}$ | MDAP/ <br> MAIS <br> Code | Prior Years |  |  | FY 2019 |  |  | FY 2020 |  |  | FY 2021 Base |  |  | FY 2021 OCO |  |  | FY 2021 Total |  |  |
| Item Number / <br> Title [DODIC] |  |  | 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 (\$ M) | Unit Cost (\$ M) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost (\$ M) |
| WRM FORCE |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| FORCE SERVICING <br> (FS, RC,SC) | A |  | - | - | - | - | - | - - | - | - | 3.450 | 0.143 | 5 | 0.715 | - | - | - | 0.143 | 5 | 0.715 |
| FUEL STORAGE(BLADDERS | S) ${ }^{\text {A }}$ |  | - | - | - | - | - | - - | - | - | 7.808 | 0.034 | 87 | 2.958 | 0.034 | 28 | 0.952 | 0.034 | 115 | 3.910 |
| AERIAL BULK FUEL DELIVERY SYSTEM (ABFDS) | A |  | - | - | - | - | - | - - | - | - | - | 0.750 | 7 | 5.250 | 0.750 | 1 | 0.750 | 0.750 | 8 | 6.000 |
| CRYOGENICS (LOXI LIN TANKS) | A |  | - | - | - | - | - | - - | - | - | 4.140 | 0.090 | 2 | 0.180 | - | - | - | 0.090 | 2 | 0.180 |
| FUELS PUMPING \& DISTRIBUTION | A |  | - | - | - | - | - | - - | 12.290 | 1 | 12.290 | - | - | - | - | - | - | - | - | - |
| PMA OTHER GOVERNMENT CHARGES (FORCE) | A |  | - | - | - | - | - | - - | - | - | 0.407 | - | - | 0.400 | - | - | - | - | - | 0.400 |
| PMA OTHER CONTRACTOR SERVICES (FORCE) | A |  | - | - | - | - | - | 0.000 | - | - | 0.200 | - | - | 0.026 | - | - | - | - | - | 0.026 |
| TRANSPORTATION MOORD | A |  | - | - | - | - | - | - - | - | - | - | 0.072 | 1 | 0.072 | 0.075 | 1 | 0.075 | 0.074 | 2 | 0.147 |
| Subtotal: WRM FORCE |  |  | - | - | - | - | - | 0.000 | - | - | 28.295 | - | - | 9.601 | - | - | 1.777 | - | - | 11.378 |
| Total |  |  | - | - | - | - | - | 0.000 | - | - | 28.295 | - | - | 9.601 | - | - | 1.777 | - | - | 11.378 |

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

PMA Other Contractor Services: This funding includes provisions for government contract oversight, technical expertise, and program office support associated with the FSE/FORCE program

Requirements are subject to change based on shifts in both Air Force priorities and operational requirements in the year of execution.

Exhibit P-40, Budget Line Item Justification: PB 2021 Air Force
Date: February 2020

## Appropriation / Budget Activity / Budget Sub Activity:

3080F: Other Procurement, Air Force / BA 04: Other Base Maintenance and Support Equip / BSA 5: Base Support Equipment
Support Equip / BSA 5. Base Suppot
Program Elements for Code B Items: N/A
P-1 Line Item Number / Title:
845990 / Base Maintenance and Support Equipment

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

| Resource Summary | Prior <br> Years | FY 2019 | FY 2020 | $\text { FY } 2021$ Base | $\begin{gathered} \text { FY } 2021 \\ \text { OCO } \end{gathered}$ | $\text { FY } 2021$ <br> Total | FY 2022 | FY 2023 | FY 2024 | FY 2025 | To Complete | Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Procurement Quantity (Units in Each) | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Cost (\$ in Millions) | - | 52.060 | 59.053 | 42.078 | 31.620 | 73.698 | 45.626 | 48.143 | 66.780 | 73.737 | - | 419.097 |
| Less PY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Net Procurement (P-1) (\$ in Millions) | - | 52.060 | 59.053 | 42.078 | 31.620 | 73.698 | 45.626 | 48.143 | 66.780 | 73.737 | - | 419.097 |
| Plus CY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Total Obligation Authority (\$ in Millions) | - | 52.060 | 59.053 | 42.078 | 31.620 | 73.698 | 45.626 | 48.143 | 66.780 | 73.737 | - | 419.097 |
| (The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.) |  |  |  |  |  |  |  |  |  |  |  |  |
| Initial Spares (\$ in Millions) | - | - | - | - | - | $\square$ | - | - | - | - | - | - |
| Flyaway Unit Cost (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Unit Cost (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - |  |

## Description:

This program provides a wide variety of base support items with worldwide application, to include but not limited to: Aircraft Arresting Systems; Aircraft Recovery Systems; Industrial Plant Equipment (IPE); Fuels Support Equipment; Base Generator Power Systems, Deployable Debrief Facilities (DDF); Flight Line Fire Extinguishers and Cargo Pallet and Net systems. This equipment provides prime support for all base missions and supports the Air Force Metrology and Calibration Program to ensure accuracy and uniformity in standards and equipment used to measure and test Air Force systems and equipment. Accuracy is achieved by relating all measurements to national and international standards maintained by the National Institute of Standards and Technology (NIST) and other recognized sources. That relationship produces a traceability chain through a measurement hierarchy whereby base measurement standards are calibrated against Air Force primary standards, which are in turn calibrated against the national standards. Accuracy is imperative to ensure that the weapons used by our operational forces arrive on target. Uniformity is imperative to ensure consistency of AF systems and safety of AF operators. Program ensures development/determination, procurement, and distribution of standards and related equipment to 65 Air Force Base PMELs residing in every Major Command (MAJCOM) worldwide and to the Air Force Primary Standards Laboratory (AFPSL). This program serves a critical role in support of Transport and Fighter Aircraft Operations across multiple operations worldwide, including but not limited to the European Deterrence Initiative, Pacific Theater, and other forward operating locations.

| Secondary Distribution |  | FY 2019 | FY 2020 | $\begin{gathered} \hline \text { FY } 2021 \\ \text { Base } \end{gathered}$ | $\begin{gathered} \text { FY } 2021 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \hline \text { FY } 2021 \\ \text { Total } \end{gathered}$ | FY 2022 | FY 2023 | FY 2024 | FY 2025 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| AF | Quantity | 3,680 | 0 | 0 | 0 | 0 | - | - | - | - |
|  | Total Obligation Authority | 52.060 | 57.450 | 40.445 | 31.620 | 72.065 | - | - | - | - |
| AFNG | Quantity | 0 | 0 | 0 | 0 | 0 | - | - | - | - |
|  | Total Obligation Authority | 0.000 | 1.509 | 1.536 | 0.000 | 1.536 | - | - | - | - |
| AFR | Quantity | 0 | 0 | 0 | 0 | 0 | - | - | - | - |
|  | Total Obligation Authority | 0.000 | 0.094 | 0.097 | 0.000 | 0.097 | - | - | - | - |
| Total: <br> Secondary Distribution | Quantity | 3,680 | 0 | 0 | 0 | 0 | - | - | - | - |
|  | Total Obligation Authority | 52.060 | 59.053 | 42.078 | 31.620 | 73.698 | - | - | - | - |

Exhibit P-40, Budget Line Item Justification: PB 2021 Air Force
Date: February 2020

## Appropriation / Budget Activity / Budget Sub Activity:

3080F: Other Procurement, Air Force / BA 04: Other Base Maintenance and Support Equip / BSA 5: Base 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 |  |  |  |  |  |  |  |  |  |  |
| Exhibits Schedule |  |  |  |  | Prior Years | FY 2019 | FY 2020 | FY 2021 Base | FY 2021 OCO | FY 2021 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 | Base Maintenance and Support Equipment |  |  |  | - 1 | - 152.060 | - 159.053 | - $/ 42.078$ | - 131.620 | - 173.698 |
| P-40 | Total Gross/Weapon System Cost |  |  |  | 1. | - 152.060 | - 159.053 | - 142.078 | - 131.620 | - 173.698 |

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

## Justification:

FY21 will procure the following:
Fuels Support Equipment (Non-WRM): (FSE-NWRM)


 equipment provides prime support for all base essential missions(Non-WRM or Non-War Reserve Materiel).

Cargo Pallets and Nets:

 Defense Strategy.

Small Munitions Trailers:





 meet peacetime and deployment requirements.

Funding may be used to address Diminishing Manufacturing Sources (DMS) issues.
 defense missions, domestic emergency responses, and providing military support to civil authorities.

Program elements associated with this P-1 Line are: 0702207F, 0202834F, 0207142F, 0208031F, 0208530F, 0402834F, 0502834F, 0502844F, 0702834F, 0802834F, 0804741F.
 Force personnel.

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| Exhibit P-40, Budget Line Item Justification: PB 2021 Air Force | Date: February 2020 |  |
| :--- | :--- | :--- |
| Appropriation / Budget Activity / Budget Sub Activity: | P-1 Line Item Number / Title: |  |
| 3080F: Other Procurement, Air Force / BA 04: Other Base Maintenance and | 845990 / Base Maintenance and Support Equipment |  |
| Support Equip / BSA 5: Base Support Equipment |  |  |


|  |  | Other Related Program Elements: N/A |
| :--- | :--- | :--- | :--- |

CY 2021 funding totals include $\$ 30.65 \mathrm{M}$ in Overseas Contingency Operations.
PY 2020 funding totals include $\$ 20.067 \mathrm{M}$ for OCO.

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| Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2021 Air Force |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Date: February 2020 <br> Aggregated Items Title: <br> Base Maintenance and Support Equipment |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3080F / 04 / 5 |  |  |  |  |  |  |  | P-1 Line Item Number / Title: <br> 845990 / Base Maintenance and Support Equipment |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  | Prior Years |  |  | FY 2019 |  |  | FY 2020 |  |  | FY 2021 Base |  |  | FY 2021 OCO |  |  | FY 2021 Total |  |  |
| Item Number / Title [DODIC] | $\begin{aligned} & \mathrm{ID} \\ & \mathrm{CD} \end{aligned}$ | $\begin{array}{\|c\|c\|c\|c\|c\|} \text { MDAPI } \\ \text { MAIS } \\ \text { Code } \end{array}$ | Unit Cost (\$M) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost <br> (\$ M) | Unit Cost (\$ M) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | $\begin{aligned} & \hline \text { Total } \\ & \text { Cost } \\ & (\$ M) \\ & \hline \end{aligned}$ | 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) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost (\$ M) | Unit Cost (\$ M) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost <br> (\$ M) |
| Support Equipment and Vehicles (SEV) |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| SMALL MUNITIONS TRAILERS RECAP (MHU-110/141) | A |  | - | - | - | - | - | - | - | - | 11.950 | - | - | 12.482 | - | - | 3.000 | - | - | 15.482 |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | - |  | - | - |  | - | 11.950 |  | - | 12.482 |  | - | 3.000 |  | - | 15.482 |
| FSE-NWRM ${ }^{(1)}$ | A |  | - | - | - | 1.560 | 21 | 1 32.767 | - | - | - | - | - | - | - | - | - | - | - | - |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | - |  | 21 | 1 32.767 |  | - | - |  | - | - |  | - | - |  | - | - |
| PMA OTHER GOVERNMENT COSTS (FORCE) | A |  | - | - | 0.000 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| AIRCRAFT ARRESTING SYSTEM | A |  | - | - | - | - | - | - | - | - | 0.768 | - | - | - | - | - | - | - | - | - |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AFNG |  |  |  | - | - |  | - | - |  | - | 0.768 |  | - | - |  | - | - |  | - | - |
| BASE GENERATOR POWER SYSTEMS | A |  | - | - | 0.000 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| BASE PALLETS AND NETS SYSTEMS ${ }^{(2)}$ | A |  | - | - | - | 0.002 | 3,656 | 6.8 .045 | - | - | 41.250 | - | - | 13.984 | - | - | 28.620 | - | - | 42.604 |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | - |  | 3,656 | 6 8.045 |  | - | 41.250 |  | - | 13.984 |  | - | 28.620 |  | - | 42.604 |
| PMA - OTHER GOVERNMENT costs | A |  | - | - | - | - | . | 0.020 | - | - | 0.050 | - | - | . | - | - | . | - | - | . |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | - |  | - | 0.020 |  | - | 0.050 |  | - | - |  | - | - |  | - | - |
| PMA CONTRACTOR SERVICES | A |  | - | - | - | - | . | - | - | - | 0.200 | - | - | - | - | - | - | - | - | - |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | - |  | - | - |  | - | 0.200 |  | - | - |  | - | - |  | - | - |
| ECAOS/DABS-FEV ${ }^{(3)}$ | A |  | - | - | - | 3.100 |  | 3 P 9.300 | - | - | - | - | - | - | - | - | - | - | - | - |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | - |  |  | 3 l 9.300 |  | - | - |  | - | - |  | - | - |  | - | - |
| Subtotal: Support Equipment and Vehicles (SEV) |  |  | - | - | . | - | - | 50.132 | - | . | 54.218 | - | . | 26.466 | - | - | 31.620 | - | - | 58.086 |
| Air Force Sustainment Center (AFSC) (404) |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| IPE EQUIPMENT | A |  | - | - | - | - | - | - | - | - | 0.835 | - | - | 1.633 | - | - | - | - | - | 1.633 |

UNCLASSIFIED
Page 4 of 6 a

| Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2021 Air Force |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Date: February 2020 |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3080F / 04 / 5 |  |  |  |  |  |  |  | P-1 Line Item Number / Title: <br> 845990 / Base Maintenance and Support Equipment |  |  |  |  |  |  |  | Aggregated Items Title: <br> Base Maintenance and Support Equipment |  |  |  |  |
| Item Number / <br> Title [DODIC] | $\begin{aligned} & \mathrm{ID} \\ & \mathrm{CD} \end{aligned}$ | MDAP/ <br> MAIS <br> Code | Prior Years |  |  | FY 2019 |  |  | FY 2020 |  |  | FY 2021 Base |  |  | FY 2021 OCO |  |  | FY 2021 Total |  |  |
|  |  |  | 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 (\$ M) | Unit Cost (\$ M) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost (\$ M) |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AFNG |  |  |  | - | - |  | - | - - |  | - | 0.741 |  | - | 1.536 |  | - | - |  | - | 1.536 |
| AFR |  |  |  | - | - |  | - | - - |  | - | 0.094 |  | - | 0.097 |  | - | - |  | - | 0.097 |
| Subtotal: Air Force Sustainment Center (AFSC) (404) |  |  | - | - | - | - | - | - - | - | - | 0.835 | - | - | 1.633 | - | - | - | - | - | 1.633 |
| OTHER ORGANIZATIONS |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AUTOMATED HIGH VACUUM GAUGE SYSTEM (AFMETCAL) | A |  | - | - | - | - | - | - | - | - | 4.000 | - | - | 13.979 | - | - | - | - | - | 13.979 |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | - |  | - | - |  | - | 4.000 |  | - | 13.979 |  | - | - |  | - | 13.979 |
| DEPLOYABLE DEBRIEF FACILITIES (DDF) | A |  | - | - | - | - | - | 1.368 | - | - | - | - | - | - | - | - | - | - | - | - |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | - |  | - | 1.368 |  | - | - |  | - | - |  | - | - |  | - | - |
| EXERCISE PREFAB GYM FACILITY ${ }^{(4)}$ | A |  | - | - | 0.000 | - | - | - - | - | - | - | - | - | - | - | - | - | - | - | - |
| EQUIPMENT FOR UNDERGRADUATE PILOT TRAINING (UPT) | A |  | - | - | - | - | - | 0.560 | - | - | - | - | - | - | - | - | - | - | - | - |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | - |  | - | 0.560 |  | - | - |  | - | - |  | - | - |  | - | - |
| Subtotal: OTHER ORGANIZATIONS |  |  | - | - | - | - | - | 1.928 | - | - | 4.000 | - | - | 13.979 | - | - | - | - | - | 13.979 |
| Total |  |  | - | - | - | - | - | 52.060 | - | - | 59.053 | - | - | 42.078 | - | - | 31.620 | - | - | 73.698 |

## Remarks:


PMA Other Contractor Services: This funding includes provisions for government contract oversight, technical expertise, and program office support associated with the and Pallets and Nets program.
Requirements are subject to change based on shifts in Air Force priorities in the year of execution.

## Footnotes:



 (DABS) - Facilities, Equipment, and Vehicles (FEV); FY20 funding includes $\$ 20.067 \mathrm{M}$ requested for Overseas Contingency Operations to procure pallets and nets.

## UNCLASSIFIED

| Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2021 Air Force | Date: February 2020 |  |
| :--- | :--- | :--- |
| Appropriation / Budget Activity / Budget Sub Activity: | P-1 Line Item Number / Title: <br> $3080 F / 04 / 5$ | 845990 / Base Maintenance and Support Equipment |

${ }^{(4)}$ FY18 funding for COCOM requirement for USAFE (Incirlik AB) ; FY19 funding includes $\$ 9.300 \mathrm{M}$ requested for Overseas Contingency Operations to procure the European Contingency Air Operations Set (ECAOS) Deployable Air Base
System (DABS) - Facilities, Equipment, and Vehicles (FEV)

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

## Appropriation / Budget Activity / Budget Sub Activity:

3080F: Other Procurement, Air Force / BA 04: Other Base Maintenance and Support Equip / BSA 6: Special Support Projects

| ID Code (A=Service Ready, B=Not Service Ready) |  |  | Program Ele | ents for Cod | B Items: N |  |  | Other Relate | Program El | ments: 0305 | 207F |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Line Item MDAP/MAIS Code: N/A |  |  |  |  |  |  |  |  |  |  |  |  |
| Resource Summary | Prior <br> Years | FY 2019 | FY 2020 | $\text { FY } 2021$ <br> Base | $\begin{gathered} \text { FY } 2021 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \text { FY } 2021 \\ \text { Total } \end{gathered}$ | FY 2022 | FY 2023 | FY 2024 | FY 2025 | To Complete | Total |
| Procurement Quantity (Units in Each) | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Cost (\$ in Millions) | 75.945 | 26.262 | 51.779 | 27.164 | 0.000 | 27.164 | 27.658 | 28.142 | 28.647 | 29.172 | - | 294.769 |
| Less PY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Net Procurement (P-1) (\$ in Millions) | 75.945 | 26.262 | 51.779 | 27.164 | 0.000 | 27.164 | 27.658 | 28.142 | 28.647 | 29.172 | - | 294.769 |
| Plus CY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Total Obligation Authority (\$ in Millions) | 75.945 | 26.262 | 51.779 | 27.164 | 0.000 | 27.164 | 27.658 | 28.142 | 28.647 | 29.172 | - | 294.769 |
| (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:

RC-135 procurement is executed by the Big Safari RC-135 Program Manager and is supported by various contractors. The contractors provide services including Program Depot Maintenance (PDM), prime


 necessary to meet current stated and emerging Combatant Commander and Intelligence Community (IC) requirements.

Funding for this exhibit contained in PE 0305207F.

Exhibit P-40, Budget Line Item Justification: PB 2021 Air Force
Date: February 2020

| Appropriation / Budget Activity / Budget Sub Activity: |
| :--- |
| 3080F: Other Procurement, Air Force / BA 04: Other Base Maintenance and |
| Support Equip / BSA 6: Special Support Projects |

## P-1 Line Item Number / Title:

846070 / DARP RC135

| ID Code (A=Service Ready, B=Not Service Ready): A | Program Elements for Code B Items: N/A | Other Related Program Elements: 0305207F |
| :--- | :--- | :--- |

Line Item MDAP/MAIS Code: N/A

| Exhibits Schedule |  |  |  |  | Prior Years | FY 2019 | FY 2020 | FY 2021 Base | FY 2021 OCO | FY 2021 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 / DARP Modification (Capability Improvement) |  | A |  | - 175.945 | - 126.262 | - 151.779 | - / 27.164 | - 10.000 | - 127.164 |
| P-40 | Total Gross/Weapon System Cost |  |  |  | 175.945 | - 126.262 | - 151.779 | - 127.164 | - 10.000 | 127.164 |
| Exhibits Schedule |  |  |  |  | FY 2022 | FY 2023 | FY 2024 | FY 2025 | To Complete | Total |
| Exhibit Type | Title* | Subexhibits | $\begin{array}{\|l\|l\|} \hline \text { ID } \\ \text { Con } \end{array}$ | 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 | $1 /$ DARP Modification (Capability Improvement) |  | A |  | - 127.658 | - 128.142 | - 128.647 | - 129.172 | - 1- | - 1294.769 |
| P-40 | Total Gross/Weapon System Cost |  |  |  | 127.658 | - 128.142 | - 128.647 | - 129.172 | 1 | - 1294.769 |

*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:





 of the information.

Congressional adds in FY20 added $\$ 25.063$ M of OPAF to replace equipment destroyed during the March 2019 flood at Offutt AFB, NE.
 (MPS), and the Airborne Capability Extension System (ACES).

Exhibit P-3a, Individual Modification: PB 2021 Air Force

## Appropriation / Budget Activity / Budget Sub Activity:

 3080F / 04 / 6
## Date: February 2020

## Modification Number / Title:

## 1 / DARP Modification

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

## P-1 Line Item Number / Title: 846070 / DARP RC135

| Resource Summary | Prior <br> Years | FY 2019 | FY 2020 | FY 2021 Base | $\begin{gathered} \text { FY } 2021 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \text { FY } 2021 \\ \text { Total } \end{gathered}$ | FY 2022 | FY 2023 | FY 2024 | FY 2025 | To Complete | Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Procurement Quantity (Units in Each) | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Cost (\$ in Millions) | 75.945 | 26.262 | 51.779 | 27.164 | 0.000 | 27.164 | 27.658 | 28.142 | 28.647 | 29.172 | - | 294.769 |
| Less PY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Net Procurement (P-1) (\$ in Millions) | 75.945 | 26.262 | 51.779 | 27.164 | 0.000 | 27.164 | 27.658 | 28.142 | 28.647 | 29.172 | - | 294.769 |
| Plus CY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Total Obligation Authority (\$ in Millions) | 75.945 | 26.262 | 51.779 | 27.164 | 0.000 | 27.164 | 27.658 | 28.142 | 28.647 | 29.172 | - | 294.769 |

(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:




 necessary to meet current stated and emerging Combatant Commander and Intelligence Community (IC) requirements.




 information.

Congressional adds in FY20 added $\$ 25.063 \mathrm{M}$ of OPAF to replace equipment destroyed during the March 2019 flood at Offutt AFB, NE.
 (MPS), and the Airborne Capability Extension System (ACES).

Milestone/Development Status
Fully Fielded Systems

## UNCLASSIFIED



## UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2021 Air Force Appropriation / Budget Activity / Budget Sub Activity: 3080F / 04 / 6
ID Code (A=Service Ready, B=Not Service Ready) : A

Date: February 2020

## Modification Number / Title:

1 / DARP Modification

Modification Item 1 of 1: BL Ground Systems

## Manufacturer Information

| Manufacturer Name: L3Harris Technologies |  |  |  | Manufacturer Location: Greenville, TX |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Administrative Leadtime (in Months): 2 |  |  |  | Production Leadtime (in Months): 6 |  |  |  |
| Dates | FY 2019 | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | FY 2025 |
| Contract Dates | Dec 2018 | Dec 2019 | Dec 2020 | Dec 2021 | Dec 2022 | Dec 2023 | Dec 2024 |
| Delivery Dates | Jun 2019 | Jun 2020 | Jun 2021 | Jun 2022 | Jun 2023 | Jun 2024 | Jun 2025 |

## Installation Information

Method of Implementation: Contractor Facility

| Installation Cost | Prior Years | FY 2019 | FY 2020 | $\begin{gathered} \text { FY } 2021 \\ \text { Base } \end{gathered}$ | $\begin{aligned} & \text { FY } 2021 \\ & \text { OCO } \end{aligned}$ | $\begin{gathered} \text { FY } 2021 \\ \text { Total } \end{gathered}$ | FY 2022 | FY 2023 | FY 2024 | FY 2025 | 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 | 3/3.216 | 1 - | - 1 - | - 1 - | 1 - | - 1 - | - 1 - | - 1 - | - 1 - | - 1 | 1 | 3/3.216 |
| FY 2019 | 1 - | 1/1.072 | - 1 - | 1 - | 1 - | 1 - | 1 - | 1 - | - 1- | -1 | 1 | 1/1.072 |
| FY 2020 | 1 | - 1 - | 1/1.072 | 1 - | 1 | 1 | 1 | - 1 - | - 1 - | - 1 - | 1 | 1/1.072 |
| FY 2021 | 1 - | - 1- | - 1 - | 1/1.072 | 1 | 1/1.072 | 1 - | - 1 - | - 1- | - 1 - | 1 - | 1/1.072 |
| FY 2022 | - 1 - | - 1 - | - 1 - | - 1 - | 1 - | - 1 - | 1/1.072 | - 1 - | - 1 - | - 1 - | 1 - | 1/1.072 |
| FY 2023 | - 1 - | - 1 - | - 1 - | - 1 - | - 1 - | - 1 - | - 1 - | 1/1.072 | - 1 - | - 1 | - 1 - | 1/1.072 |
| FY 2024 | - 1 - | - 1 - | - 1 - | - 1 - | 1 - | - 1 - | - 1 - | - 1 | 1/1.072 | - 1 - | - 1 - | 1/1.072 |
| FY 2025 | 1 - | - 1 | - 1 - | - 1- | 1 - | 1 | - 1 | - 1 | - 1 | 1/1.072 | - 1 - | 1/1.072 |
| To Complete | - 1 - | - 1 - | - 1 - | - 1 - | - 1 - | - 1 - | - 1 - | - 1 - | - 1 - | - 1 - | 1 - | 1 - |
| Total | 3/3.216 | 1/1.072 | 1/1.072 | 1/1.072 | 1 - | 1/1.072 | 1/1.072 | 1/1.072 | 1/1.072 | 1/1.072 | - 1 | 10/10.720 |


|  | PYS | FY 2019 |  |  |  | FY 2020 |  |  |  | FY 2021 |  |  |  | FY 2022 |  |  |  | FY 2023 |  |  |  | FY 2024 |  |  |  | FY 2025 |  |  |  | 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 | 3 | - | 1 | - | - | - | 1 | - | - | - | 1 | - | - | - | 1 | - | - | - | 1 | - | - | - | 1 | - | - | - | 1 | - | - | 0 | 10 |
| Out | 3 | - | - | - | 1 | - | - | - | 1 | - | - | - | 1 | - | - | - | 1 | - | - | - | 1 | - | - | - | 1 | - | - | 1 | - | 0 | 10 |

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Exhibit P-40, Budget Line Item Justification: PB 2021 Air Force
Date: February 2020

| Appropriation / Budget Activity / Budget Sub Activity: |
| :--- |
| 3080F: Other Procurement, Air Force / BA 04: Other Base Maintenance and |
| Support Equip / BSA 6: Special Support Projects |

## P-1 Line Item Number / Title:

846080 / DCGS-AF

| ID Code (A=Service Ready, B=Not Service Ready): A | Program Elements for Code B Items: 0305208F | Other Related Program Elements: 0305208F, 0305240F |
| :--- | :--- | :--- | :--- |

Line Item MDAP/MAIS Code: N/A

| Resource Summary | Prior <br> Years | FY 2019 | FY 2020 | $\text { FY } 2021$ <br> Base | $\begin{gathered} \text { FY } 2021 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \text { FY } 2021 \\ \text { Total } \end{gathered}$ | FY 2022 | FY 2023 | FY 2024 | FY 2025 | To Complete | Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Procurement Quantity (Units in Each) | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Cost (\$ in Millions) | 243.141 | 397.987 | 116.055 | 121.528 | 18.700 | 140.228 | 150.778 | 153.499 | 156.350 | 159.215 | - | 1,517.253 |
| Less PY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Net Procurement (P-1) (\$ in Millions) | 243.141 | 397.987 | 116.055 | 121.528 | 18.700 | 140.228 | 150.778 | 153.499 | 156.350 | 159.215 | - | 1,517.253 |
| Plus CY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Total Obligation Authority (\$ in Millions) | 243.141 | 397.987 | 116.055 | 121.528 | 18.700 | 140.228 | 150.778 | 153.499 | 156.350 | 159.215 | - | 1,517.253 |
| (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:




 manned platforms, remotely piloted aircraft (RPA), non-traditional ISR platforms, national and commercial satellites and other collection systems.




 all levels of conflict.


 premise and public cloud) architecture.

 migrates GEOINT-specific applications into the open architecture framework. Leverages mission partner methods and tools to the maximum extent possible.

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

## Appropriation / Budget Activity / Budget Sub Activity:

3080F: Other Procurement, Air Force / BA 04: Other Base Maintenance and Support Equip / BSA 6: Special Support Projects
ID Code (A=Service Ready, B=Not Service Ready): A
Program Elements for Code B Items: 0305208F
Other Related Program Elements: 0305208F, 0305240F

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

2. SIGINT Transformation: Rapidly integrates new SIGINT capabilities, enables quick/seamless integration of new sensors, data types, sensor planning, command and control (C2) capabilities and migrates SIGINT-specific applications into the open architecture framework. Leverages mission partner methods and tools to the maximum extent possible.
3. Multi-INT-1: Rapidly integrates new and updated enterprise applications, to include voice/video/chat communications, collaboration and situational awareness, multi-INT fusion, and data analytics capabilities into the open architecture framework. Also includes Intelligent Modeling and Predictive Analysis of Cyberspace Targeting (IMPACT) program, which develops concepts, Tactics/Techniques/Procedures (TTPs) and technologies for synchronizing ISR and non-kinetic capabilities. Addressees program office test and evaluation activities.
4. Network Infrastructure Transformation: Modernizes the AF DCGS infrastructure to a cyber-resilient, open, scalable, commercial-based, architecture, improving data ingest, transfer, and storage capabilities, collaboration, and content driven discovery. OA DCGS Platform as a Service, along with migration to a hub-based architecture and public cloud represents the AF DCGS hybrid cloud (mix of private on premise and public cloud) architecture.
5. *DRT: The Air Force DCGS Reference Imagery Transition (DRT) effort provides data ingest, transfer, and storage capabilities for NGA reference imagery data.

NOTES:
*No additional funding planned in FY20 or out years; ACAT will be closed once the capability is installed at all sites
Detailed information on PE 0305240F, Support to DoD DCGS Enterprise remains classified and will be provided on a need-to-know basis.
Funding for this exhibit Line Item \# 846080 is contained in PEs 0305208F and 0305240F.
Funding may be used to address Diminishing Manufacturing Sources (DMS) issues.
FY21 funding totals include $\$ 18.7 \mathrm{M}$ for Overseas Contingency Operations.
Program Management Administration (PMA): FY21 funding permits the System Program Office (SPO) to support the fielding and installation of new and developing capabilities. This includes the initial bed down and operability testing, technical interchange meetings, and events incident to fielding both hardware and software products, and maintaining configuration control of fielded products.

In accordance with Section 1815 of the FY2008 National Defense Authorization Act (P.L. 110-181), this item is necessary for use by the active and reserve components of the Armed Forces for homeland defense missions, domestic emergency responses, and providing military support to civil authorities.

| Secondary Distribution |  | FY 2019 | FY 2020 | $\begin{gathered} \hline \text { FY } 2021 \\ \text { Base } \end{gathered}$ | $\begin{gathered} \hline \text { FY } 2021 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \hline \text { FY } 2021 \\ \text { Total } \end{gathered}$ | FY 2022 | FY 2023 | FY 2024 | FY 2025 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| AF | Quantity | 0 | 0 | 0 | 0 | 0 | - | - | - | - |
|  | Total Obligation Authority | 353.187 | 116.055 | 121.528 | 18.700 | 140.228 | 128.207 | 130.535 | 132.975 | 135.278 |
| AFNG | Quantity | 0 | 0 | 0 | 0 | 0 | - | - | - | - |
|  | Total Obligation Authority | 44.800 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | - |
| AFR | Quantity | 0 | 0 | 0 | 0 | 0 | - | - | - | - |
|  | Total Obligation Authority | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | - |
| Total: | Quantity | 0 | 0 | 0 | 0 | 0 | - | - | - | - |

UNCLASSIFIED

| Exhibit P-40, Budget Line Item Justification: PB 2021 Air Force |  |  |  |  |  |  |  | Date: February 2020 |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: <br> 3080F: Other Procurement, Air Force / BA 04: Other Base Maintenance and Support Equip / BSA 6: Special Support Projects |  |  |  |  | P-1 Line Item Number / Title: 846080 / DCGS-AF |  |  |  |  |  |
| ID Code (A=Service Ready | Not Service Ready): A | Program Elements for Code B Items: 0305208F |  |  |  | Other Related Program Elements: 0305208F, 0305240F |  |  |  |  |
| Line Item MDAP/MAIS Code: N/A |  |  |  |  |  |  |  |  |  |  |
| Secondary Distribution |  | FY 2019 | FY 2020 | $\begin{gathered} \hline \text { FY } 2021 \\ \text { Base } \end{gathered}$ | $\begin{gathered} \text { FY } 2021 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \hline \text { FY } 2021 \\ \text { Total } \end{gathered}$ | FY 2022 | FY 2023 | FY 2024 | FY 2025 |
| Secondary Distribution | Total Obligation Authority | 397.987 | 116.055 | 121.528 | 18.700 | 140.228 | 128.207 | 130.535 | 132.975 | 135.278 |

Exhibit P-40, Budget Line Item Justification: PB 2021 Air Force
Date: February 2020

## Appropriation / Budget Activity / Budget Sub Activity:

3080F: Other Procurement, Air Force / BA 04: Other Base Maintenance and Support Equip / BSA 6: Special Support Projects
ID Code (A=Service Ready, B=Not Service Ready): A
Program Elements for Code B Items: 0305208F
P-1 Line Item Number / Title:
846080 / DCGS-AF

Line Item MDAP/MAIS Code: N/A

| Exhibits Schedule |  |  |  |  | Prior Years | FY 2019 | FY 2020 | FY 2021 Base | FY 2021 OCO | FY 2021 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 | Distributed Common Ground/Surface Systems |  |  |  | - /19.633 | - 18.478 | - 10.000 | - 10.000 | - 10.000 | - 10.000 |
| P-3a | $1 /$ GEOINT Transformation (GEOINT) (Reliability \& Maintainability) |  | B |  | - 126.517 | - 160.539 | - 132.898 | - 136.662 | - 11.900 | - 138.562 |
| P-3a | 2 / Signals Intelligence (SIGINT) (Reliability \& Maintainability) |  | B |  | - 127.544 | - 150.654 | - 125.259 | - 130.768 | - 10.000 | - $/ 30.768$ |
| P-3a | 3 / Multi-Intelligence (Multi-INT) (Reliability \& Maintainability) |  | B |  | - / 36.163 | - /31.378 | - /12.987 | - / 18.344 | - /16.800 | - / 35.144 |
| P-3a | $4 /$ Network Infrastructure Transformation (Reliability \& Maintainability) |  | B |  | - /133.284 | - 1208.218 | - 122.993 | - / 13.466 | - 10.000 | - /13.466 |
| P-40a | Support to DCGS Enterprise |  |  |  | 1 | - 138.720 | - 121.918 | - 122.288 | - 1 - | - 122.288 |
| P-40 | Total Gross/Weapon System Cost |  |  |  | - 1243.141 | - / 397.987 | - /116.055 | - /121.528 | - 118.700 | - 1140.228 |
| Exhibits Schedule |  |  |  |  | FY 2022 | FY 2023 | FY 2024 | FY 2025 | To Complete | Total |
| $\begin{aligned} & \text { Exhibit } \\ & \text { Type } \end{aligned}$ | Title* | Subexhibits | $\begin{array}{\|l\|} \hline \text { ID } \\ \text { CD } \end{array}$ | $\begin{gathered} \text { MDAP/ } \\ \text { MAIS } \\ \text { Code } \\ \hline \end{gathered}$ | 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 | Distributed Common Ground/Surface Systems |  |  |  | - 10.000 | - 10.000 | - 10.000 | - 10.000 | - 10.000 | - 128.111 |
| P-3a | $1 / \mathrm{GEOINT}$ Transformation (GEOINT) (Reliability \& Maintainability) |  | B |  | - / 34.358 | - $/ 44.585$ | - 156.600 | - / 57.619 | - 1 - | - / 351.678 |
| P-3a | $2 /$ Signals Intelligence (SIGINT) (Reliability \& Maintainability) |  | B |  | - 121.702 | - /41.715 | - 122.268 | - / 22.635 | - 1 - | - $/ 242.545$ |
| P-3a | 3 / Multi-Intelligence (Multi-INT) (Reliability \& Maintainability) |  | B |  | - / 49.029 | - 123.983 | - /13.463 | - / 13.663 | - 1 - | - 1215.810 |
| P-3a | 4 / Network Infrastructure Transformation (Reliability \& Maintainability) |  | B |  | - 123.118 | - 120.252 | - 140.644 | - /41.361 | - 1 - | - 1503.336 |
| P-40a | Support to DCGS Enterprise |  |  |  | - 1 | - 1 - | - 1 | 1 | - 1 - | - 1 - |
| P-40 | Total Gross/Weapon System Cost |  |  |  | - / 150.778 | - / 153.499 | - /156.350 | - /159.215 | - 1 - | 11,517.253 |

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

## Justification:

Where applicable, justification for individual modifications is provided in the P-3A exhibits.
Efforts with funding starting in FY 2022 through FY 2025 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 2022 Cost Delta: 22.571 million
${ }^{(b)}$ FY 2023 Cost Delta: 22.964 million
${ }^{(c)}$ FY 2024 Cost Delta: 23.375 million
${ }^{\text {(d) }}$ FY 2025 Cost Delta: 23.937 million
${ }^{(e)}$ FY Total Cost Delta: 175.773 million

## UNCLASSIFIED

| Exhibit P-40a, Budget Item Justification For Aggregated Modification Items: PB 2021 Air Force |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Date: February 2020 |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3080F / 04 / 6 |  |  |  |  |  |  |  | P-1 Line Item Number / Title: 846080 / DCGS-AF |  |  |  |  |  |  |  | Aggregated Modification Items Title: Distributed Common Ground/Surface Systems |  |  |  |  |
|  | $\begin{aligned} & \text { ID } \\ & \text { CD } \end{aligned}$ | MDAP/ MAIS Code | Prior Years |  |  | FY 2019 |  |  | FY 2020 |  |  | FY 2021 Base |  |  | FY 2021 OCO |  |  | FY 2021 Total |  |  |
| Item Number / Title |  |  | 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 (\$ M) | Unit Cost (\$ M) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost <br> (\$ M) |
| DCGS13 / NASIC |  |  | - | - | 1.800 | - | - | 0.400 | - | - | - | - | - | 0.000 | - | - | - | - | - | 0.000 |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | - |  | - | 0.400 |  | - | - |  | - | 0.000 |  | - | - |  | - | 0.000 |
| $\begin{array}{\|l} \hline \text { DCGS5 / Sensor } \\ \text { Integration } \\ \hline \end{array}$ |  |  | - | - | 17.687 | - | - | 0.000 | - | - | 0.000 | - | - | 0.000 | - |  | - | - |  | 0.000 |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | - |  | - | 0.000 |  | - | 0.000 |  | - | 0.000 |  | - | - |  | - | 0.000 |
| DCGS8 / DCGS Reference Imagery Transition (DRT) |  |  | - | - | 0.146 | - | - | 8.078 | - | - | - | - | - | 0.000 | - | - | - | - | - | 0.000 |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | - |  | - | 8.078 |  | - | - |  | - | 0.000 |  | - | - |  | - | 0.000 |
| Total |  |  | - | - | 19.633 | - | - | 8.478 | - | - | 0.000 | - | - | 0.000 | - | - | 0.000 | - | - | 0.000 |
|  |  |  | FY 2022 |  |  | FY 2023 |  |  | FY 2024 |  |  | FY 2025 |  |  | 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) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | 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) |
| DCGS13 / NASIC |  |  | - | - | 0.000 | - | - | 0.000 | - | - | - | - | - | - | - | - | - | - | - | 2.200 |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | 0.000 |  | - | 0.000 |  | - | - |  | - | - |  | - | - |  | - | - |
| $\begin{array}{\|l} \text { DCGS5 / Sensor } \\ \text { Integration } \\ \hline \end{array}$ |  |  | - | - | 0.000 | - | - | 0.000 | - | - | 0.000 | - | - | - | - | - | - | - | - | 17.687 |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | 0.000 |  | - | 0.000 |  | $\cdots$ | 0.000 |  | - | - |  | - | - |  | - | - |
| DCGS8 / DCGS <br> Reference Imagery <br> Transition (DRT) |  |  | - | - | 0.000 | - | - | 0.000 | - | - | 0.000 | - | - | - | - | - | - | - | - | 8.224 |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | 0.000 |  | - | 0.000 |  | - | 0.000 |  | - | - |  | - | - |  | - | - |
| Total |  |  | - | - | 0.000 | - | - | 0.000 | - | - | 0.000 | - | - | 0.000 | - | - | 0.000 | - | - | 28.111 |

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 |
| :--- | :--- | :--- |
| DCGS13 / NASIC | 0305208 F | Reliability \& Maintainability |
| DCGS5 / Sensor Integration | 0305208 F | Reliability \& Maintainability |

UNCLASSIFIED

| Exhibit P-40a, Budget Item Justification For Aggregated Modification Items: PB 2021 Air Force |  |  | Date: February 2020 |
| :---: | :---: | :---: | :---: |
| Appropriation / Budge $\text { 3080F / } 04 \text { / } 6$ | Activity / Budget Sub Activity: | P-1 Line Item Number / Title: 846080 / DCGS-AF | Aggregated Modification Items Title: Distributed Common Ground/Surface Systems |
| Item Number / Title | Models of Systems Affected | Modification Type |  |
| DCGS8 / DCGS Reference Imagery Transition (DRT) | 0305208F | Reliability \& Maintainability |  |


| Exhibit P-3a, Individual Modification: PB 2021 Air Force |  |  |  |  |  |  |  |  | Date: February 2020 |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity:$\text { 3080F / } 04 \text { / } 6$ |  |  |  | P-1 Line Item Number / Title: 846080 / DCGS-AF |  |  |  |  | Modification Number / Title: <br> 1 / GEOINT Transformation (GEOINT) |  |  |  |
| ID Code (A=Service Ready, B=Not Service Ready) : B |  |  |  |  |  | MDAP/MAIS Code: |  |  |  |  |  |  |
| Resource Summary | Prior Years | FY 2019 | FY 2020 | $\text { FY } 2021$ <br> Base | $\begin{gathered} \text { FY } 2021 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \text { FY } 2021 \\ \text { Total } \end{gathered}$ | FY 2022 | FY 2023 | FY 2024 | FY 2025 | To Complete | Total |
| Procurement Quantity (Units in Each) | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Cost (\$ in Millions) | 26.517 | 60.539 | 32.898 | 36.662 | 1.900 | 38.562 | 34.358 | 44.585 | 56.600 | 57.619 | - | 351.678 |
| Less PY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Net Procurement (P-1) (\$ in Millions) | 26.517 | 60.539 | 32.898 | 36.662 | 1.900 | 38.562 | 34.358 | 44.585 | 56.600 | 57.619 | - | 351.678 |
| Plus CY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Total Obligation Authority (\$ in Millions) | 26.517 | 60.539 | 32.898 | 36.662 | 1.900 | 38.562 | 34.358 | 44.585 | 56.600 | 57.619 | - | 351.678 |
| (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:

 GEOINT-specific applications into the open architecture framework. Leverages mission partner methods and tools to the maximum extent possible.

## Justification:



 more useful to the war-fighter while simultaneously reducing the workload on the DCGS operator.

Milestone/Development Status


| Secondary Distribution |  | FY 2019 | FY 2020 | $\text { FY } 2021$ Base | $\begin{gathered} \hline \text { FY } 2021 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \text { FY } 2021 \\ \text { Total } \end{gathered}$ | FY 2022 | FY 2023 | FY 2024 | FY 2025 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| AF | Quantity | - | - | - | - | - | - | - | - | - |
|  | Total Obligation Authority | 60.539 | 32.898 | 36.662 | 1.900 | 38.562 | 34.358 | 44.585 | 56.600 | 57.619 |
| Total: <br> Secondary Distribution | Quantity | - | - | - | - | $\bullet$ | - | - | - | $\bullet$ |
|  | Total Obligation Authority | 60.539 | 32.898 | 36.662 | 1.900 | 38.562 | 34.358 | 44.585 | 56.600 | 57.619 |

## UNCLASSIFIED

| Exhibit P-3a, Individual Modification: PB 2021 Air Force |  |  |  |  |  |  |  |  | Date: February 2020 |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3080F / 04 / 6 |  |  | P-1 Line Item Number / Title: 846080 / DCGS-AF |  |  |  |  |  | Modification Number / Title: <br> 1 / GEOINT Transformation (GEOINT) |  |  |  |
| ID Code (A=Service Ready, B=Not Service Ready) : B |  |  | MDAP/MAIS Code: |  |  |  |  |  |  |  |  |  |
| Models of Systems Affected: DCGS |  | Modification Type: Reliability \& Maintainability |  |  |  |  | Related RDT\&E PEs: |  |  |  |  |  |
|  | Prior Years | FY 2019 | FY 2020 | $\begin{aligned} & \text { FY } 2021 \\ & \text { Base } \end{aligned}$ | $\begin{aligned} & \hline \text { FY } 2021 \\ & \text { OCO } \end{aligned}$ | $\begin{gathered} \hline \text { FY } 2021 \\ \text { Total } \end{gathered}$ | FY 2022 | FY 2023 | FY 2024 | FY 2025 | To Complete | Total |
| Financial Plan | $\begin{gathered} \text { Oty (Each) I } \\ \text { Total Cost (\$ M) } \end{gathered}$ | $\begin{array}{\|c\|} \hline \text { Qty (Each) I } \\ \text { Total Cost (\$M) } \\ \hline \end{array}$ | $\begin{array}{\|c\|} \hline \text { Qty (Each) I } \\ \text { Total Cost (\$ M) } \end{array}$ | $\begin{array}{\|c\|} \hline \text { Qty (Each) I } \\ \text { Total Cost }(\$ M) \\ \hline \end{array}$ | $\begin{array}{\|c\|} \hline \text { Qty (Each) I } \\ \text { Total Cost (\$ M) } \\ \hline \end{array}$ | $\begin{array}{\|c\|} \hline \text { Qty (Each) I } \\ \text { Total Cost (\$ M) } \\ \hline \end{array}$ | $\begin{array}{\|c\|} \hline \text { Qty (Each) I } \\ \text { Total Cost (\$ M) } \\ \hline \end{array}$ | $\begin{array}{\|c\|} \hline \text { Qty (Each) I } \\ \text { Total Cost (\$ M) } \\ \hline \end{array}$ | $\begin{array}{\|c\|} \hline \text { Qty (Each) I } \\ \text { Total Cost }(\$ \mathrm{M}) \\ \hline \end{array}$ | $\begin{array}{\|c\|} \hline \text { Qty (Each) I } \\ \text { Total Cost }(\$ \mathrm{M}) \end{array}$ | $\begin{gathered} \text { Oty (Each) I } \\ \text { Total Cost (\$M) } \\ \hline \end{gathered}$ | $\begin{gathered} \text { Qty (Each) I } \\ \text { Total Cost (\$M) } \\ \hline \end{gathered}$ |
| Procurement |  |  |  |  |  |  |  |  |  |  |  |  |
| Modification Item 1 of 1: GEOINT Transformation |  |  |  |  |  |  |  |  |  |  |  |  |
| B Kits |  |  |  |  |  |  |  |  |  |  |  |  |
| Recurring |  |  |  |  |  |  |  |  |  |  |  |  |
| GEOINT Transformation:EQUIPMENT Group B (Active) | $0 / 25.694$ | - 158.950 | - 130.488 | - 134.114 | - /1.900 | - 136.014 | - 132.705 | - /42.450 | - 153.914 | - /54.881 | 1 | 0/335.096 |
| Subtotal: Recurring | - 125.694 | - /58.950 | - $/ 30.488$ | - /34.114 | - 11.900 | - /36.014 | - /32.705 | - /42.450 | - /53.914 | - /54.881 | - 1 - | - /335.096 |
| Subtotal: GEOINT Transformation | - /25.694 | - 158.950 | - 130.488 | - /34.114 | - 11.900 | - /36.014 | - /32.705 | - /42.450 | - /53.914 | - /54.881 | -1. | - 1335.096 |
| Subtotal: Procurement, All Modification Items | - 125.694 | - /58.950 | - 130.488 | - /34.114 | - /1.900 | - /36.014 | - /32.705 | - /42.450 | - /53.914 | - /54.881 | -1. | - /335.096 |
| Support (All Modification Items) |  |  |  |  |  |  |  |  |  |  |  |  |
| GROUP B: TOTAL NONRECURRING | - 10.000 | - 10.000 | - 1 - | - 10.000 | $1-$ | - 10.000 | - 10.000 | - 10.000 | - 10.000 | 1 - | 1 | 10.000 |
| PMA - Other Gov't Costs | - 10.041 | - 10.077 | - 10.085 | - 10.107 | 1 | - 10.107 | - 10.107 | - 10.107 | - 10.107 | - 10.107 | - 1 | - 10.738 |
| PMA - Contractor Services | - 10.782 | - 11.512 | - 12.325 | - 12.441 | 1 | - 12.441 | - 11.546 | - 12.028 | - 12.579 | - 12.631 | 1 | - 115.844 |
| ICS-Labor | - 10.000 | - 10.000 | 1. | - 10.000 | -1- | - 10.000 | - 10.000 | - 10.000 | - 1 - | 1. | 1 | - 10.000 |
| Subtotal: Support | - 10.823 | - 11.589 | - 12.410 | - 12.548 | -1. | - 12.548 | - 11.653 | - 12.135 | - 12.686 | - 12.738 | - 1- | - /16.582 |
| Installation |  |  |  |  |  |  |  |  |  |  |  |  |
| Subtotal: Installation | - 1- | - / - | - 1 - | - 1- | - / - | - 1 - | - 1 - | - 1- | - 1 - | - $/$ - | - 1 - | - 1- |
| Total |  |  |  |  |  |  |  |  |  |  |  |  |
| Total Cost (Procurement + Support + Installation) | 26.517 | 60.539 | 32.898 | 36.662 | 1.900 | 38.562 | 34.358 | 44.585 | 56.600 | 57.619 | - | 351.678 |

UNCLASSIFIED


Exhibit P-3a, Individual Modification: PB 2021 Air Force

## Appropriation / Budget Activity / Budget Sub Activity:

 3080F / 04 / 6Date: February 2020

## Modification Number / Title:

2 / Signals Intelligence (SIGINT)

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

## P-1 Line Item Number / Title: 846080 / DCGS-AF

MDAP/MAIS Code:

| Resource Summary | Prior <br> Years | FY 2019 | FY 2020 | $\text { FY } 2021$ <br> Base | $\begin{gathered} \text { FY } 2021 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \text { FY } 2021 \\ \text { Total } \end{gathered}$ | FY 2022 | FY 2023 | FY 2024 | FY 2025 | To Complete | Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Procurement Quantity (Units in Each) | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Cost (\$ in Millions) | 27.544 | 50.654 | 25.259 | 30.768 | 0.000 | 30.768 | 21.702 | 41.715 | 22.268 | 22.635 | - | 242.545 |
| Less PY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Net Procurement (P-1) (\$ in Millions) | 27.544 | 50.654 | 25.259 | 30.768 | 0.000 | 30.768 | 21.702 | 41.715 | 22.268 | 22.635 | - | 242.545 |
| Plus CY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Total Obligation Authority (\$ in Millions) | 27.544 | 50.654 | 25.259 | 30.768 | 0.000 | 30.768 | 21.702 | 41.715 | 22.268 | 22.635 | - | 242.545 |



Gross/Weapon System Unit Cost (\$ in Millions)

## Description:

 SIGINT-specific applications into the open architecture framework. Leverages mission partner methods and tools to the maximum extent possible.

## Justification:


 enterprise services. Efforts also implement infrastructure changes required to ensure compatibility and access to mission partner tools.

Milestone/Development Status


| Secondary Distribution |  | FY 2019 | FY 2020 | $\begin{gathered} \text { FY } 2021 \\ \text { Base } \end{gathered}$ | $\begin{gathered} \text { FY } 2021 \\ \text { OCO } \\ \hline \end{gathered}$ | $\begin{gathered} \text { FY } 2021 \\ \text { Total } \\ \hline \end{gathered}$ | FY 2022 | FY 2023 | FY 2024 | FY 2025 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| AF | Quantity |  | - | - | - | - | - | - | - | - |
|  | Total Obligation Authority | 50.654 | 25.259 | 30.768 | - | 30.768 | 21.702 | 41.715 | 22.268 | 22.635 |
| AFNG | Quantity | - | - | - | - | - | - | - | - | - |
|  | Total Obligation Authority | 0.000 | - | 0.000 | - | 0.000 | 0.000 | 0.000 | 0.000 | - |
| AFR | Quantity | - | - | - | - | - | - | - | - | - |
|  | Total Obligation Authority | 0.000 | - | 0.000 | - | 0.000 | 0.000 | 0.000 | 0.000 | - |
| Total: <br> Secondary Distribution | Quantity | - | - | - | $\cdot$ | - | - | - | - | - |
|  | Total Obligation Authority | 50.654 | 25.259 | 30.768 | 0.000 | 30.768 | 21.702 | 41.715 | 22.268 | 22.635 |


| Exhibit P-3a, Individual Modification: PB 2021 Air Force |  |  |  |  |  |  |  |  | Date: February 2020 |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3080F / 04 / 6 |  |  | P-1 Line Item Number / Title: 846080 / DCGS-AF |  |  |  |  |  | Modification Number / Title: <br> 2 I Signals Intelligence (SIGINT) |  |  |  |
| ID Code (A=Service Ready, B=Not Service Ready) : B |  |  |  |  | MDAP/MAIS Code: |  |  |  |  |  |  |  |
| Models of Systems Affected: 0305208F |  | Modification Type: Reliability \& Maintainability |  |  |  |  | Related RDT\&E PEs: 0305208F |  |  |  |  |  |
|  | Prior Years | FY 2019 | FY 2020 | $\begin{aligned} & \text { FY } 2021 \\ & \text { Base } \end{aligned}$ | $\begin{aligned} & \text { FY } 2021 \\ & \text { OCO } \end{aligned}$ | $\begin{aligned} & \text { FY } 2021 \\ & \text { Total } \end{aligned}$ | FY 2022 | FY 2023 | FY 2024 | FY 2025 | To Complete | Total |
| Financial Plan | $\begin{array}{\|c\|} \hline \text { Oty (Each) I } \\ \text { Total Cost (\$ M) } \\ \hline \end{array}$ | $\begin{array}{\|c\|} \hline \text { Qty (Each) I } \\ \text { Total Cost (\$ M) } \\ \hline \end{array}$ | $\begin{array}{\|c\|} \hline \text { Oty (Each) I } \\ \text { Total Cost }(\$ M) \\ \hline \end{array}$ | $\begin{array}{\|c\|} \hline \text { Qty (Each) I } \\ \text { Total Cost (\$ M) } \\ \hline \end{array}$ | $\begin{array}{\|c\|} \hline \text { Qty (Each) I } \\ \text { Total Cost (\$ M) } \\ \hline \end{array}$ | $\begin{array}{\|c\|} \hline \text { Qty (Each) I } \\ \text { Total Cost (\$ M) } \\ \hline \end{array}$ | $\begin{array}{\|c\|} \hline \text { Qty (Each) I } \\ \text { Total Cost (\$ M) } \\ \hline \end{array}$ | Qty (Each) I Total Cost (\$ M) | $\begin{array}{\|c\|} \hline \text { Qty (Each) I } \\ \text { Total Cost (\$ M) } \end{array}$ | $\begin{array}{\|c\|} \hline \text { Qty (Each) I } \\ \text { Total Cost (\$ M) } \end{array}$ | $\begin{array}{\|c\|} \hline \text { Qty (Each) I } \\ \text { Total Cost (\$ M) } \end{array}$ | $\begin{gathered} \text { Qty (Each)I } \\ \text { Total Cost (\$ M) } \\ \hline \end{gathered}$ |
| Procurement |  |  |  |  |  |  |  |  |  |  |  |  |
| Modification Item 1 of 1: Signals Intelligence Transformation |  |  |  |  |  |  |  |  |  |  |  |  |
| B Kits |  |  |  |  |  |  |  |  |  |  |  |  |
| Recurring |  |  |  |  |  |  |  |  |  |  |  |  |
| Signals Intelligence Transformation:EQUIPMENT Group B (Active) | 0/26.957 | 0/49.588 | 123.400 | 0/28.633 | - 1 - | 0/28.633 | 0/20.600 | 0/39.580 | 0/21.166 | - 21.511 | - 1 - | 0/231.435 |
| Signals Intelligence Transformation:EQUIPMENT Group B (Guard) | 0/0.000 | 0/0.000 | - 1- | 0/0.000 | - 1- | 0/0.000 | 0/0.000 | 0/0.000 | 0/0.000 | - 1- | - 1 - | 0/0.000 |
| Signals Intelligence Transformation:EQUIPMENT Group B (Reserve) | 0/0.000 | 0/0.000 | 1 - | 0/0.000 | 1 | 010.000 | 0/0.000 | 0/0.000 | 0/0.000 | 1 - | 1 - | 0/0.000 |
| Subtotal: Recurring | - /26.957 | - /49.588 | - 123.400 | - 128.633 | -1- | - /28.633 | - 120.600 | - 139.580 | - 121.166 | - 121.511 | - 1 - | - 1231.435 |
| Subtotal: Signals Intelligence Transformation | - /26.957 | - /49.588 | - 123.400 | - /28.633 | -1- | - /28.633 | - /20.600 | - /39.580 | - /21.166 | - /21.511 | 1 | - 1231.435 |
| Subtotal: Procurement, All Modification Items | - /26.957 | - /49.588 | - 123.400 | - /28.633 | - 1. | - /28.633 | - /20.600 | - /39.580 | - /21.166 | - /21.511 | 1. | - /231.435 |
| Support (All Modification Items) |  |  |  |  |  |  |  |  |  |  |  |  |
| GROUP B: TOTAL NONRECURRING | - 10.000 | - 10.000 | - 1 - | - 10.000 | $1-$ | - 10.000 | - 10.000 | - 10.000 | - 10.000 | - 1 - | 1. | - 10.000 |
| PMA - Contractor Services | - 10.472 | - 11.033 | - 11.819 | - 12.090 | -1- | - 12.090 | - 11.056 | - 12.085 | - 11.050 | - 11.071 | 1 - | - 110.676 |
| PMA - Other Gov't Costs | - 10.115 | - 10.033 | - 10.040 | - 10.045 | 1 | - 10.045 | - 10.046 | - 10.050 | - 10.052 | - 10.053 | 1 - | - 10.434 |
| Subtotal: Support | - 10.587 | - 11.066 | - 11.859 | - 12.135 | - $1 \cdot$ | - 12.135 | - 11.102 | - 12.135 | - 11.102 | - 11.124 | 1 | 111.110 |
| Installation |  |  |  |  |  |  |  |  |  |  |  |  |
| Subtotal: Installation | - 1 - | - / - | - 1 - | - 1 - | - 1 - | - 1 - | - 1 - | - 1 - | - 1 - | - 1 - | - 1 - | - 1- |
| Total |  |  |  |  |  |  |  |  |  |  |  |  |
| Total Cost (Procurement + Support + Installation) | 27.544 | 50.654 | 25.259 | 30.768 | 0.000 | 30.768 | 21.702 | 41.715 | 22.268 | 22.635 | - | 242.545 |

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| Exhibit P-3a, Individual Modification: PB 2021 Air Force |  |  |  |  |  |  |  |  | Date: February 2020 |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity:$3080 F / 04 / 6$ |  |  |  | P-1 Line Item Number / Title: 846080 / DCGS-AF |  |  |  |  | Modification Number / Title: <br> 3 / Multi-Intelligence (Multi-INT) |  |  |  |
| ID Code (A=Service Ready, B=Not Service Ready) : B |  |  |  |  |  | MDAP/MAIS Code: |  |  |  |  |  |  |
| Resource Summary | Prior Years | FY 2019 | FY 2020 | $\text { FY } 2021$ Base | $\begin{gathered} \hline \text { FY } 2021 \\ \text { OCO } \end{gathered}$ | $\begin{aligned} & \text { FY } 2021 \\ & \text { Total } \end{aligned}$ | FY 2022 | FY 2023 | FY 2024 | FY 2025 | To Complete | Total |
| Procurement Quantity (Units in Each) | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Cost (\$ in Millions) | 36.163 | 31.378 | 12.987 | 18.344 | 16.800 | 35.144 | 49.029 | 23.983 | 13.463 | 13.663 | - | 215.810 |
| Less PY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Net Procurement (P-1) (\$ in Milions) | 36.163 | 31.378 | 12.987 | 18.344 | 16.800 | 35.144 | 49.029 | 23.983 | 13.463 | 13.663 | - | 215.810 |
| Plus CY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Total Obligation Authority (\$ in Millions) | 36.163 | 31.378 | 12.987 | 18.344 | 16.800 | 35.144 | 49.029 | 23.983 | 13.463 | 13.663 | - | 215.810 |
| (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:


 technologies for synchronizing ISR and non-kinetic capabilities. Addressees program office test and evaluation activities.

Justification:

Milestone/Development Status


| Secondary Distribution |  | FY 2019 | FY 2020 | $\begin{gathered} \text { FY } 2021 \\ \text { Base } \end{gathered}$ | $\begin{gathered} \text { FY } 2021 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \text { FY } 2021 \\ \text { Total } \end{gathered}$ | FY 2022 | FY 2023 | FY 2024 | FY 2025 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| AF | Quantity | - | - | - | - | - | - | - | - | - |
|  | Total Obligation Authority | 31.378 | 12.987 | 18.344 | 16.800 | 35.144 | 49.029 | 23.983 | 13.463 | 13.663 |
| Total: <br> Secondary Distribution | Quantity | - | - | - | - | - | - | - | - | - |
|  | Total Obligation Authority | 31.378 | 12.987 | 18.344 | 16.800 | 35.144 | 49.029 | 23.983 | 13.463 | 13.663 |

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| Exhibit P-3a, Individual Modification: PB 2021 Air Force |  |  |  |  |  |  |  |  | Date: February 2020 |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3080F / 04 / 6 |  |  | P-1 Line Item Number / Title: 846080 / DCGS-AF |  |  |  |  |  | Modification Number / Title: <br> 3 / Multi-Intelligence (Multi-INT) |  |  |  |
| ID Code (A=Service Ready, B=Not Service Ready) : B |  |  | MDAP/MAIS Code: |  |  |  |  |  |  |  |  |  |
| Models of Systems Affected: 0305208F |  | Modification Type: Reliability \& Maintainability |  |  |  |  | Related RDT\&E PEs: |  |  |  |  |  |
| Financial Plan | Prior Years | FY 2019 | FY 2020 | $\begin{gathered} \text { FY } 2021 \\ \text { Base } \end{gathered}$ | $\begin{aligned} & \text { FY } 2021 \\ & \text { OcO } \end{aligned}$ | FY 2021 Total | FY 2022 | FY 2023 | FY 2024 | FY 2025 | To Complete | Total |
|  | $\begin{array}{\|c\|} \hline \text { Oty (Each) I } \\ \text { Total Cost (\$ M) } \\ \hline \end{array}$ | $\begin{array}{\|c\|} \hline \text { Oty (Each) I } \\ \text { Total Cost (\$ M) } \\ \hline \end{array}$ | $\begin{array}{\|c\|} \hline \text { Qty (Each) I } \\ \text { Total Cost (\$M) } \\ \hline \end{array}$ | $\begin{array}{\|c\|} \hline \text { Qty (Each) I } \\ \text { Total Cost (\$ M) } \\ \hline \end{array}$ | $\begin{array}{\|c\|} \hline \text { Oty (Each) I } \\ \text { Total Cost (\$ M) } \\ \hline \end{array}$ | $\begin{array}{\|c\|} \hline \text { Qty (Each) I } \\ \text { Total Cost }(\$ \mathrm{M}) \\ \hline \end{array}$ | $\begin{array}{\|c\|} \hline \text { Qty (Each) I } \\ \text { Total Cost }(\$ M) \\ \hline \end{array}$ | $\begin{array}{\|c\|} \hline \text { Qty (Each) } 1 \\ \text { Total Cost }(\$ \mathrm{M}) \\ \hline \end{array}$ | $\begin{array}{\|c\|} \hline \text { Qty (Each) I } \\ \text { Total Cost (\$ M) } \\ \hline \end{array}$ | $\begin{array}{\|c\|} \hline \text { Qty (Each) I } \\ \text { Total Cost }(\$ M) \\ \hline \end{array}$ | $\begin{gathered} \text { Oty (Each) I } \\ \text { Total Cost (\$ M) } \\ \hline \end{gathered}$ | $\begin{array}{c\|} \hline \text { Qty (Each) I } \\ \text { Total Cost }(\$ M) \\ \hline \end{array}$ |
| Procurement |  |  |  |  |  |  |  |  |  |  |  |  |
| Modification Item 1 of 1: Multi-Int Upgrades |  |  |  |  |  |  |  |  |  |  |  |  |
| B Kits |  |  |  |  |  |  |  |  |  |  |  |  |
| Recurring |  |  |  |  |  |  |  |  |  |  |  |  |
| Multi-Int Upgrades:EQUIPMENT Group B (Active) | 0/35.835 | - 130.223 | - 112.023 | - /17.105 | - 116.800 | - 133.905 | - 146.206 | - 122.468 | - 112.568 | - 112.750 | - 1 - | 0/205.978 |
| Subtotal: Recurring | - 135.835 | - 130.223 | - /12.023 | - /17.105 | - /16.800 | - /33.905 | - /46.206 | - 122.468 | - /12.568 | - 112.750 | 1 - | - /205.978 |
| Subtotal: Multi-Int Upgrades | - /35.835 | - 130.223 | - /12.023 | - /17.105 | - /16.800 | - /33.905 | - /46.206 | - /22.468 | - /12.568 | - /12.750 | - 1 - | - 1205.978 |
| Subtotal: Procurement, All Modification Items | - /35.835 | - /30.223 | - /12.023 | - /17.105 | - /16.800 | - /33.905 | - /46.206 | - /22.468 | - /12.568 | - /12.750 | - 1 | - /205.978 |
| Support (All Modification Items) |  |  |  |  |  |  |  |  |  |  |  |  |
| GROUP B: TOTAL NONRECURRING | - 10.000 | - 10.000 | - 1- | - 10.000 | 1. | - 10.000 | - 10.000 | - 10.000 | - 10.000 | $1-$ | 1. | - 10.000 |
| PMA - Other Gov't Costs | - 10.040 | - 10.075 | - 10.065 | - 10.077 | 1 | - 10.077 | - 10.092 | - 10.092 | - 10.070 | - 10.071 | - 1- | - 10.582 |
| PMA - Contractor Services | - 10.288 | - 11.080 | - 10.899 | - 11.162 | 1 - | - 11.162 | - 12.731 | - 11.423 | - 10.825 | - 10.842 | - 1 - | - 19.250 |
| Subtotal: Support | - 10.328 | - 11.155 | - 10.964 | - 11.239 | - | - /1.239 | - /2.823 | - /1.515 | - 10.895 | - 10.913 | 1 | - 19.832 |
| Installation |  |  |  |  |  |  |  |  |  |  |  |  |
| Subtotal: Installation | - 1- | - 1 - | - $1 \cdot$ | - $1 \cdot$ | 1. | - 1 - | - 1 - | - 1 - | 1 | - 1 - | - 1 - | - 1- |
| Total |  |  |  |  |  |  |  |  |  |  |  |  |
| Total Cost (Procurement + Support + Installation) | 36.163 | 31.378 | 12.987 | 18.344 | 16.800 | 35.144 | 49.029 | 23.983 | 13.463 | 13.663 | $\cdot$ | 215.810 |

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Exhibit P-3a, Individual Modification: PB 2021 Air Force


## P-1 Line Item Number / Title: 846080 / DCGS-AF

Date: February 2020

## Modification Number / Title:

4 / Network Infrastructure Transformation

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

| FY 2021 <br> Total | FY 2022 | FY 2023 | FY 2024 | FY 2025 | To <br> Complete | Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| - | - | - | - | - | - | - |
| 13.466 | 23.118 | 20.252 | 40.644 | 41.361 | - | 503.336 |
| - | - | - | - | - | - | - |
| 13.466 | 23.118 | 20.252 | 40.644 | 41.361 | - | 503.336 |
| - | - | - | - | - | - | - |
| $\mathbf{1 3 . 4 6 6}$ | $\mathbf{2 3 . 1 1 8}$ | $\mathbf{2 0 . 2 5 2}$ | $\mathbf{4 0 . 6 4 4}$ | $\mathbf{4 1 . 3 6 1}$ | - | $\mathbf{5 0 3 . 3 3 6}$ |



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

## Description:


 and public cloud) architecture.

## Justification:




 architecture construct and improving data sharing ability in compliance with DoD direction

Milestone/Development Status


| Secondary Distribution |  | FY 2019 | FY 2020 | FY 2021 Base | $\begin{gathered} \hline \text { FY } 2021 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \text { FY } 2021 \\ \text { Total } \end{gathered}$ | FY 2022 | FY 2023 | FY 2024 | FY 2025 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| AF | Quantity | - | - | - | - | - | - | - | - | - |
|  | Total Obligation Authority | 163.418 | 22.993 | 13.466 | - | 13.466 | 23.118 | 20.252 | 40.644 | 41.361 |
| AFNG | Quantity | - | - | - | - | - | - | - | - | - |
|  | Total Obligation Authority | 44.800 | - | 0.000 | - | 0.000 | 0.000 | 0.000 | 0.000 | - |
| Total: <br> Secondary Distribution | Quantity | - | - | - | $\bullet$ | - | - | - | - | - |
|  | Total Obligation Authority | 208.218 | 22.993 | 13.466 | 0.000 | 13.466 | 23.118 | 20.252 | 40.644 | 41.361 |

## UNCLASSIFIED



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| Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2021 Air Force ${ }^{\text {a }}$ D |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Date: February 2020 |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3080F / 04 / 6 |  |  |  |  |  |  |  | P-1 Line Item Number / Title: 846080 / DCGS-AF |  |  |  |  |  |  |  | Aggregated Items Title: Support to DCGS Enterprise |  |  |  |  |
|  |  |  | Prior Years |  |  | FY 2019 |  |  | FY 2020 |  |  | FY 2021 Base |  |  | FY 2021 OCO |  |  | FY 2021 Total |  |  |
| Item Number / Title [DODIC] | $\begin{aligned} & \mathrm{ID} \\ & \mathrm{CD} \end{aligned}$ | $\begin{aligned} & \text { MDAP/ } \\ & \text { MAIS } \\ & \text { code } \end{aligned}$ | Unit Cost (\$M) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \\ \hline \end{gathered}$ | Total <br> Cost <br> (\$M) | Unit Cost (\$ M) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \\ \hline \end{gathered}$ | $\begin{aligned} & \text { Total } \\ & \text { Cost } \\ & (\$ M) \\ & \hline \end{aligned}$ | Unit Cost (\$ M) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost <br> (\$M) | Unit Cost <br> (\$ M) | $\begin{gathered} \text { Qty } \\ \text { (Each) } \end{gathered}$ | $\begin{aligned} & \text { Total } \\ & \text { Cost } \\ & \text { CoM) } \\ & \hline \end{aligned}$ | Unit Cost (\$M) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | Total Cost (\$ M) | Unit Cost (\$ M) | $\begin{aligned} & \text { Qty } \\ & \text { (Each) } \end{aligned}$ | $\begin{aligned} & \text { Total } \\ & \text { Cost } \end{aligned}$ $(\$ M)$ |
| Support to DCGS Enterprise |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Imagery Processing | A |  | - | - | - | - | - | 3.652 | - | - | 3.752 | - | - | 3.495 | - | - | - | - | - | 3.495 |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | - |  | - | 3.652 |  | - | 3.752 |  | - | 3.495 |  | - | - |  | - | 3.495 |
| Extended Tether Program | A |  | - | - | - | - | - | 27.102 | - | - | 10.045 | - | - | 9.483 | - | - | - | - | . | 9.483 |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | - |  | - | 27.102 |  | - | 10.045 |  | - | 9.483 |  | - | - |  | - | 9.483 |
| Wide Area Networks/ Networks | A |  | - | - | - | - | - | 7.966 | - | - | 8.121 | - | - | ${ }^{9.310}$ | - | - | - | - | - | 9.310 |
| Secondary Distribution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AF |  |  |  | - | - |  | - | 7.966 |  | - | 8.121 |  | - | 9.310 |  | - | - |  | - | 9.310 |
| Subtotal: Support to DCGS Enterprise |  |  | - | - | . | - | . | 38.720 | - | - | 21.918 | - | - | 22.288 | - | - | - | - | - | 22.288 |
| Total |  |  | - |  | - | - | - | 38.720 | - | - | 21.918 | - | - | 22.288 | - | - | - | - | - | 22.288 |

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| Exhibit P-40, Budget Line Item Justification: PB 2021 Air Force |  |  |  |  |  |  |  |  | Date: February 2020 |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: <br> 3080F: Other Procurement, Air Force / BA 04: Other Base Maintenance and Support Equip / BSA 6: Special Support Projects |  |  |  |  | P-1 Line Item Number / Title: 846510 / Special Update Program |  |  |  |  |  |  |  |
| 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 2019 | FY 2020 | $\begin{gathered} \text { FY } 2021 \\ \text { Base } \end{gathered}$ | $\begin{gathered} \hline \text { FY } 2021 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \text { FY } 2021 \\ \text { Total } \end{gathered}$ | FY 2022 | FY 2023 | FY 2024 | FY 2025 | To Complete | Total |
| Procurement Quantity (Units in Each) | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Cost (\$ in Milions) | - | 910.551 | 917.148 | 782.641 | - | 782.641 | 782.938 | 796.251 | 800.245 | 910.329 | - | 5,900.103 |
| Less PY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Net Procurement (P-1) (\$ in Millions) | - | 910.551 | 917.148 | 782.641 | - | 782.641 | 782.938 | 796.251 | 800.245 | 910.329 | - | 5,900.103 |
| Plus CY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Total Obligation Authority (\$ in Millions) | - | 910.551 | 917.148 | 782.641 | - | 782.641 | 782.938 | 796.251 | 800.245 | 910.329 | - | 5,900.103 |
| (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 Dollars) | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Unit Cost (\$ in Dollars) | - | - | - | - | - | - | - | - | - | - | - | - |

## Description:

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

## Justification:

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.

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Exhibit P-40, Budget Line Item Justification: PB 2021 Air Force
Date: February 2020

## P-1 Line Item Number / Title:

861350 / Spares and Repair Parts (Cyber)

Appropriation / Budget Activity / Budget Sub Activity:
3080F: Other Procurement, Air Force / BA 05: Spares and Repair Parts / BSA 1: Spares And Repair Parts

| ID Code (A=Service Ready, B=Not Service Ready) |  |  | Program El | ents for Cod | B Items: |  |  | Other Related | Program El | ments: N/A |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Line Item MDAP/MAIS Code: N/A |  |  |  |  |  |  |  |  |  |  |  |  |
| Resource Summary | Prior Years | FY 2019 | FY 2020 | $\begin{gathered} \text { FY } 2021 \\ \text { Base } \end{gathered}$ | $\begin{gathered} \text { FY } 2021 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \text { FY } 2021 \\ \text { Total } \end{gathered}$ | FY 2022 | FY 2023 | FY 2024 | FY 2025 | To Complete | Total |
| Procurement Quantity (Units in Each) | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Cost (\$ in Millions) | - | - | - | 1.664 | - | 1.664 | 0.988 | 1.005 | 1.023 | 1.041 | - | 5.721 |
| Less PY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Net Procurement (P-1) (\$ in Millions) | - | - | - | 1.664 | - | 1.664 | 0.988 | 1.005 | 1.023 | 1.041 | - | 5.721 |
| Plus CY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Total Obligation Authority (\$ in Millions) | - | - | - | 1.664 | - | 1.664 | 0.988 | 1.005 | 1.023 | 1.041 | - | 5.721 |
| (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 program supports Cyberspace Activities

 cost of the end items. The factors are based on historical data of similar equipment, employment/deployment concepts, production schedules, and other related information.

Starting in FY21 funding for PE 0303140F, Information Systems Security Program (ISSP)Initial Spares moved from 861900 to 861350.

## Justification:

 (KME) which supplies crypto devices to all Services/ Agencies to meet an NSA cybersecurity mandate for warfighter air and ground radio networks

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Exhibit P-40, Budget Line Item Justification: PB 2021 Air Force
Date: February 2020
Appropriation / Budget Activity / Budget Sub Activity:
3080F: Other Procurement, Air Force / BA 05: Spares and Repair Parts / BSA 1:

## P-1 Line Item Number / Title:

861900 / Spares and Repair Parts Spares And Repair Parts

| ID Code (A=Service Ready, B=Not Service Ready) |  |  | Program Elem | ents for Cod | $B$ Items: $\mathrm{N} /$ |  |  | Other Relate | Program E | ments: N/A |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Line Item MDAP/MAIS Code: N/A |  |  |  |  |  |  |  |  |  |  |  |  |
| Resource Summary | Prior <br> Years | FY 2019 | FY 2020 | $\text { FY } 2021$ <br> Base | $\begin{gathered} \text { FY } 2021 \\ \text { OCO } \end{gathered}$ | $\begin{gathered} \text { FY } 2021 \\ \text { Total } \end{gathered}$ | FY 2022 | FY 2023 | FY 2024 | FY 2025 | To Complete | Total |
| Procurement Quantity (Units in Each) | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Cost (\$ in Millions) | - | 93.965 | 85.715 | 15.847 | 4.000 | 19.847 | 42.231 | 26.968 | 16.454 | 16.714 | - | 301.894 |
| Less PY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Net Procurement (P-1) (\$ in Millions) | - | 93.965 | 85.715 | 15.847 | 4.000 | 19.847 | 42.231 | 26.968 | 16.454 | 16.714 | - | 301.894 |
| Plus CY Advance Procurement (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Total Obligation Authority (\$ in Millions) | - | 93.965 | 85.715 | 15.847 | 4.000 | 19.847 | 42.231 | 26.968 | 16.454 | 16.714 | - | 301.894 |
| (The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.) |  |  |  |  |  |  |  |  |  |  |  |  |
| Initial Spares (\$ in Millions) | - | - - | - | - | $\cdots$ | - | - | - | - | - | - | - |
| Flyaway Unit Cost (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Unit Cost (\$ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |

## Description:

This program supports Cyberspace Activities

 cost of the end items. The factors are based on historical data of similar equipment, employment/deployment concepts, production schedules, and other related information.

The following Major Defense Acquisition Program (MDAP) has funding in this line:

## Appropriation / Budget Activity / Budget Sub Activity: <br> 3080F: Other Procurement, Air Force / BA 05: Spares and Repair Parts / BSA 1:

 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 |  |  |  |  |  |  |  |  |  |  |
| Exhibits Schedule |  |  |  |  | Prior Years | FY 2019 | FY 2020 | FY 2021 Base | FY 2021 OCO | FY 2021 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-18 | Spares and Repair Parts |  |  |  | - 1- | - /93.965 | - 185.715 | - /15.847 | - 14.000 | - /19.847 |
| P-40 | Total Gross/Weapon System Cost |  |  |  | - 1 - | - 193.965 | - 185.715 | - / 15.847 | - 14.000 | - /19.847 |

Title represents the P-18 Title for Spares.
Note: Totals in this Exhibit P-40 set may not be exact or sum exactly due to rounding

## Justification:


 models and are sized to ensure system availability requirements are met.
 components, equipment and parts.

 essential spare parts are procured utilizing this funding.

 Maintenance Facilities, and HVAC. Also, mission essential spare parts are procured utilizing this funding.

This program supports Cyberspace Activities
Information Systems Security Program (ISSP): Starting in FY21 funding for PE 0303140F, Information Systems Security Program (ISSP)Initial Spares moved from 861900 to 861350.



 items required to be completed while the initial manufacturing line is set up for each individual fielding location.
 unique and critical items required to be available for each individual fielding location.

## UNCLASSIFIED

| Exhibit P-18, Initial and Replenishment Spare and Repair Parts Justification: PB 2021 Air Force |  |  |  |  | Date: February 2020 |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Appropriation / Budget Activity / Budget Sub Activity: 3080F / 05 / 1 | P-1 Line Item Number / Title: 861900 / Spares and Repair Parts |  |  | Title: <br> Spares and Repair Parts |  |  |
| End Item Line Item Number / Name [MDAP/MAIS] | Prior Years (\$ M) | $\begin{gathered} \text { FY } 2019 \\ (\$ M) \end{gathered}$ | $\begin{gathered} \text { FY } 2020 \\ (\$ M) \end{gathered}$ | $\begin{gathered} \text { FY } 2021 \text { Base } \\ (\$ M) \end{gathered}$ | $\underset{(\$ M)}{ } \mathrm{FY} 2021 \text { OCO }$ | $\begin{aligned} & \text { FY } 2021 \text { Total } \\ & (\$ M) \end{aligned}$ |
| Initial |  |  |  |  |  |  |
| BA 05 - Spares and Repair Parts |  |  |  |  |  |  |
| 861900 / Air Traffic Control, Approach, and Landing System (ATCALS) | - | 1.074 | 1.394 | 1.451 | 0.000 | 1.451 |
| 861900 / Combat Training Range Equipment | - | 14.035 | 2.322 | 8.241 | 0.000 | 8.241 |
| 861900 / Deployable C3 Systems | - | 1.986 | 1.985 | 1.983 | 0.000 | 1.983 |
| 861900 / Expeditionary Airfield Basing Assets | - | 2.193 | 2.232 | 2.268 | 4.000 | 6.268 |
| 861900 / Information Systems Security Program | - | 0.937 | 1.605 | 0.000 | 0.000 | 0.000 |
| 861900 / Manned Reconnaissance Systems | - | - | 4.375 | 0.000 | 0.000 | 0.000 |
| 861900 / Minimum Essential Emergency Communications Network (MEECN) | - | 73.740 | 68.795 | 0.000 | 0.000 | 0.000 |
| 861900 / Wide Area Surveillance Spares | - | 0.000 | 3.007 | 1.904 | 0.000 | 1.904 |
| Subtotal: Initial | - | 93.965 | 85.715 | 15.847 | 4.000 | 19.847 |
| Total Cost (Initial + Replenishment) | - | 93.965 | 85.715 | 15.847 | 4.000 | 19.847 |

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[^0]:    Department of the Air Force
    FY 2021President's Budget
    Exhibit P-1 FY 2021 President's Budget
    Total Obligational Authority
    (Dollars in Thousands)

[^1]:    Recurring Cost

